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**LINEAR
INTEGRATED CIRCUITS**

EDITION 31

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Precision Voltage References

- Second source to PMI
- Low temperature coefficient
- Guaranteed long term-stability
- Low noise

Model	Packages	Output Voltage	Regulating Current	Temp Coefficient (max, full temp)	Reverse Dynamic Impedance	Noise	Replaces
MP5010	All	1.22V	50 μ A – 500 μ A	50 ppm/C $^{\circ}$	2 ohm	5 μ V	ICL8069 LM113 ZN423
MP5532/REF01	All	+10V	1.4 mA – 10 mA	8.5 ppm/C $^{\circ}$	–	20 μ V P-P	REF01
MP5531/REF02	All	+5V	1.4 mA – 10 mA	8.5 ppm/C $^{\circ}$	–	20 μ V P-P	REF02
MPREF05	All	+5V	1.4 mA – 10 mA	8.5 ppm/C $^{\circ}$	–	20 μ V P-P	REF05
MPREF10	All	+10V	1.4 mA – 10 mA	8.5 ppm/C $^{\circ}$	–	20 μ V P-P	REF10

Precision Operational Amplifiers

- Second source to PMI
- Lowest noise in the industry
- Improved long term-stability
- High slew rate DAC follower

Model	Type	V _{OS} (Max)	I _B (Max)	Noise (nV/ $\sqrt{\text{Hz}}$ at 10 Hz)	Gain (Min)	CMRR (Min)	Slew Rate (typ)	Replaces
MP4136	Quad (741 Type)	6 mV	1.5 μ A		25 V/mV	70 dB	1.5 V/ μ sec	PM4136
MP5501/OP01	DAC Follower, Hi-speed	1 mV	50 nA		30 V/mV	85 dB	18 V/ μ sec	OP01
MP5502/OP02	Low Noise, Gen. Purpose	1.0 mV	60 nA	25 (typ)	50 V/mV	80 dB	.25 V/ μ sec	OP02
MP5503/OP03	Dual, Matched	1.5 mV	60 nA	25 (typ)	50 V/mV	80 dB	.5 V/ μ sec	OP03
MP5504/OP04	Dual, Matched	1.5 mV	60 nA	25 (typ)	50 V/mV	80 dB	.5 V/ μ sec	OP04
MP5505/OP05	Low Noise, Instrumentation	.24 mV	\pm 4 nA	18 (max)	200 V/mV	110 dB	.1 V/ μ sec	OP05
MP5507/OP07	Ultra Low Noise, Low V _{OS} Instr.	60 μ V	4 nA	18 (max)	200 V/mV	106 dB	.1 V/ μ sec	OP07
MP5508/OP08	Low Input Current	.35 μ V	3 nA	22 (typ)	40 V/mV	100 dB	.12 V/ μ sec	OP08
MP5509/OP09	Quad Matched	1 mV	375 nA	18	50 V/mV	100 dB	1.0 V/ μ sec	OP09
MP5510/OP10	Dual 5505/OP05	.7 mV	\pm 6 nA	18 (max)	150 V/mV	106 dB	.2 V/ μ sec	OP10
MP5511/OP11	Quad Matched	1 mV	375 nA	18	50 V/mV	100 dB	1.0 V/ μ sec	OP11
MP5512/OP12	Low Input Current	.26 mV	2.6 nA	22 (typ)	25 V/mV	100 dB	.12 V/ μ sec	OP12
MP5514/OP14	Dual Matched High Performance	1.5 mV	60 nA	25	50 V/mV	80 dB	.5 V/ μ sec	OP14
MP5527/OP27	Ultra Low Noise	60 μ V	50 nA	5.5 (max)	600 V/mV	108 dB	2.8 V/ μ sec	OP27
MP5537/OP37	Ultra Low Noise, High Speed	60 μ V	50 nA	5.5 (max)	600 V/mV	108 dB	17 V/ μ sec	OP37
MP207/OP207	Dual, Matched OP07	230 μ V	5.6 nA	18.0 (max)	150 V/mV	130 dB	0.2 V/ μ sec	OP207
MP227/OP227	Ultra Low Noise, Low V _{OS} Instr.	180 μ V	\pm 60 nA	6.0 (max)	600 V/mV	108 dB	2.8 V/ μ sec	OP227
MPLM108/208/308	Super Beta	1.0 mV	3 nA		40 V/mV	96 dB		LM108/208/308
MPOP2108/2208/2308	Low Input Current	1.0 mV	3 nA		40 V/mV	96 dB		OP2108/2208/2308

Note: All specifications: -55 $^{\circ}$ C to +125 $^{\circ}$ C

All Micro Power Systems' IC's are available with 883B processing, in dice form, or to customer's specifications.

Compare Over 20,000 Power Supply Devices

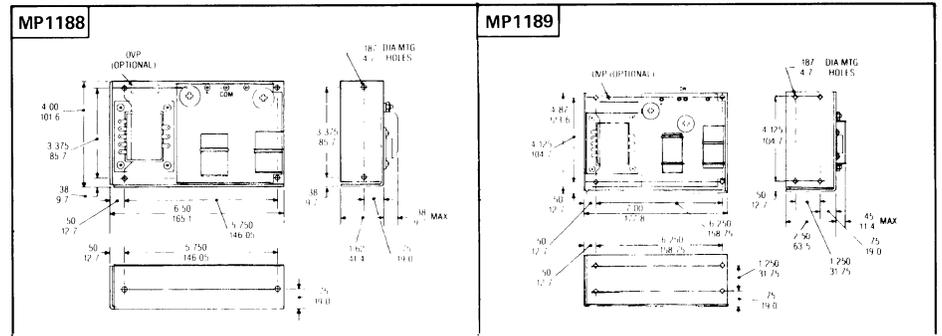
3. SWITCHING POWER SUPPLIES									
LINE No.	Type Number	INPUT		OUTPUT		Switching Freq. (Hz)	Oper Temp Range (°C)	General Description	Drawing Outline
		1 Volts In (V)	2 Freq In (Hz)	3 Power Out (W)	4 Volts Out (V)					5 Amps Out (A)
1 v	RSF503B3630	115	60	500	28	33	0	Triple Output, Line/Load Reg 2/2%	MP1207
2 v	RSF503B3630-0001	115	60	500	28	33	0	Triple Output, Line/Load Reg 2/2%, w/AC Power Fail	MP1207
3 v	RSF503B3630-0002	115	60	500	28	33	0	Triple Output, Line/Load Reg 2/2%, w/AC Power Fail	MP1207
4 v	RSF503B3630-0008								
5 v	RSF503B3630-0016								
6 v	RSF503B3640								
7 v	RSF503B3640-0001								
8 v	RSF503B3640-0002								
9 v	RSF503B3640-0008								
10 v	RSF503B3640-0016								
11 v	RSF503B3650								
12 v	RSF503B3650-0001								
13 v	RSF503B3650-0002								
14 v	RSF503B3650-0008								
15 v	RSF503B3650-0016								
16 v	RSF503B3660								
17 v	RSF503B3660-0001								
18 v	RSF503B3660-0002								
19 v	RSF503B3660-0008								
20 v	RSF503B3660-0016								
21 v	RSF503B4260								
22 v	RSF503B4260-0001								
23 v	RSF503B4260-0002								
24 v	RSF503B4260-0008								
25 v	RSF503B4260-0016								
26 v	RSF503B4360-0002								
27 v	RSF503B4360-0008								

TECHNICAL DATA SECTIONS organize devices with similar operating characteristics one, after the other, allowing you at a glance comparisons.

8. MANUFACTURERS' CODES, NAMES & ADDRESS

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	MANUFACTURERS' CODES, NAMES, AND ADDRESSES
AAK			AAK Corp., 747 River St., Haverhill, MA 01830

5. OUTLINE DRAWINGS



NAMES AND ADDRESSES of over 30 manufacturers lets you order additional information or identify supplier instantly.

OUTLINE DRAWINGS give you the layout of a device, helping you determine if it will meet your design needs and space requirements.

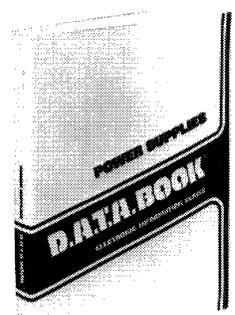
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Linear and Switching Power Supplies and DC/DC Converters from 30 worldwide manufacturers. Devices are listed by volts in, amps in, volts out, amps out, operating temperature ranges, general description and MORE! Includes outline drawings and complete

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D.A.T.A., INC.

A Cordura Company
9889 Willow Creek Rd. P. O. Box 26875
San Diego, California 92126
Tel.: (619) 578-7600

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D.A.T.A. BOOK[®]

ELECTRONIC INFORMATION SERIES

VOLUME 28 - BOOK 34 - NOVEMBER 1983

LINEAR INTEGRATED CIRCUITS

EDITION 31

8,802 TYPES

79 MANUFACTURERS

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EDITORIAL POLICY AND PROCEDURES

- PURPOSE** This D.A.T.A.BOOK is designed to report comprehensively on what is presently being produced throughout the world in the field of LINEAR IC devices. While a book such as this can not provide 100% of the information you might need, its primary aims are those of facilitating the selection of types suitable to your technical requirements, and of directing you to the sources of their manufacture.
- TECHNICAL DATA ACQUISITION** D.A.T.A. acquires and processes the information presented in this D.A.T.A.BOOK with the cooperation of the participating manufacturers who supply us with their latest technical information. Manufacturers are not charged for the listing of their products.
- JEDEC OUTLINES** At the time this D.A.T.A.BOOK was prepared, there were no JEDEC type numbers; however, some of the devices have the JEDEC-designated DO-, MO- and TO- outlines which are included as applicable in the outline drawing Section.
- MILITARY TYPE NUMBERS** The electrical, mechanical and environmental information tabulated for the military types in the technical sections is derived directly from the applicable military specifications and standards. The source information, showing the particular manufacturers qualified for each type, is derived from the QPL (Qualified Parts List) associated with the governing specification, or from the manufacturers' Qualification Test Letters.
- SUBSTITUTE TYPES AND COMPATIBILITY** This D.A.T.A.BOOK can not truly claim to be an interchangeability chart; however, because of the sequencing arrangement of selected characteristics in the technical sections, types with the same or similar characteristics are grouped together. For purposes of replacement, this means of thorough, convenient technical comparison should prove superior to, and safer than, a mere listing of possible substitute type numbers.
- PRICE AND AVAILABILITY** Because of the rapidly-changing and complex nature of this field, current price and delivery information should be obtained direct from the manufacturers. The list of manufacturers and the Local Offices Section in back of the book will assist you in this.
- MICROFILM SERVICE** Type numbers in the Cross Index indicating data sheets are available, can be obtained in a Microfilm Service. Inquiries should be directed to Customer Service at 1-800-854-7030.
- MANUFACTURERS' SPECIFICATIONS** This book includes currently-manufactured devices and devices soon-to-be available with their major characteristics, drawings and manufacturers. Every effort is made to ensure the accuracy of the entries herein; however, the publisher can not be held responsible nor guarantee against the possibility of error or omission. Only the manufacturers or their authorized representatives can provide you with complete technical details.

HOW TO USE THIS BOOK

3 BASIC WAYS:

	If you know:	And need to know:	Read:
1	Electrical & mechanical requirements	A type number	Explanation 1
2	A type number	The electrical and/or mechanical characteristics or its circuit and outline configuration or who manufactures it or an equivalent type	Explanation 2
3	A common (or generic) device number	the manufacturer or the type number or class	Explanation 3



If you know: the electrical and mechanical requirements (including military):

And need to know: a suitable type number:

- Select from the Table of Contents the Technical Section corresponding to the known device type.
- Turn to that section. Symbols and codes used in these technical sections are explained in the "Interpreter" pages at the back of the book.
- Notice the sequencing parameters in top right corner of the page

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C			T C E O M P E	C K T. Δ=MO	D R A W I N G S OUT-LINE Δ=MO
		1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	3 | TORPT (V/°C)	4 | OFST (V)	5 | OFFSET (A)	6 | BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)				CMRR (dB)
1#	OP14CZ	30	500mW	10u	3.0m	10n	100p	2.5kΩ	24	24	0.8M	50 Δ	25	85	07	A457a	DLB
2#	TDB0347ADP*	30	500mW	10u	4.0m	100p	200p	1.5u	24	24	4.0M	50 Δ	13 t	80	07	A504f	TO116
3#	ITDC3409DG*	30	500mW	10u	6.0m	200n			20	20	9.0kΩ	25 Δ	1600mt	70	5C	A373g	TO116

- Locate the type numbers that are in general agreement with your requirements. Because of the sequencing these types will appear together; select your type number. Military types are prefaced with JAN.
- If you need the manufacturer, use the manufacturer code from the Type Index page.
- Turn to Section 17.

MANUFACTURERS CODES, NAMES & ADDRESSES

OPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	MANUFACTURERS' CODES, NAMES, AND ADDRESSES
↓ ↓ ↓			NECE NEC Electronics U.S.A., Electron Div., 252 Humboldt Court, Sunnyvale, CA 94086

- Find the manufacturer code and thus the name.
- Local offices of the manufacturer can be found in Section 15 and the logo of the company in Section 16.



If you know: the type number (including military which has JAN prefix):

First: Turn to Section 1, the TYPE NUMBER CROSS INDEX and find your type number.

If you need to know:

- The electrical characteristics:
Note the page and line number beside your Type.



2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE												
TYPE No.	MFRS	Page	Line	TYPE No.	MFRS	Page	Line	TYPE No.	MFRS	Page	Line	
HAS115-5	HAS	53	- 2	ICL7811BCTY	INL	46	- 96	ICL8008CTY	INL	31	- 63	
HAS130-2	HAS	52	- 68	ICL7811BMTY	INL	46	- 97	ICL8008MTY	INL	31	- 60	
										78	- 47	
										78	- 109	
										LAS15A05	LAM	68 - 13
										LAS15A12	LAM	72 - 43

Locate that page and line number, and you will find the electrical characteristics.

or b. The circuit and outline drawings:

Those numbers are in the last column



3. OPERATIONAL AMPLIFIERS

IN ORDER OF: (1) TOTAL VOLT (2) MAX IDLE POWER (3) MAX VOLT DRIFT (4) MAX OFFSET VOLT (5) TYPE

LINE No.	TYPE No.	PWR SUP @ 25°C		INPUT CHARACTERISTICS					MIN. OUTPUT		MIN TRANSFER CHAR. @ 25°C			T C		DRAWINGS	
		1) TOT. VOLT. (ΔV)	2) MAX IDLE P (W)	3) DRIFT (V/°C)	4) OFFSET (V)	5) BIAS (A)	CM RANGE (ΔV)	DIFF IMP (Ω)	P.P. VOLT. (ΔV)	P.P. CUR (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	M D P E	OUT-LINE Δ=MO	
1	NE531V	30	300m	7.5m	300nA	2.0kΩ	20	20MΩ	20	2.0kΩ	500k	86	35	70	07		DL8k
2	RC4138DB	30	300m	7.5m	300n	800n	30	300k	20	2.0kΩ		86	1.0	70	07	A210	DL14μ
3	RC4138DC	30	300m	7.5m	300n	800n	30	300k	20	2.0kΩ		86	1.0	70	07		DL14μ

and the drawings are in sections 13 and 14, numbered as indicated.

or c. Who manufactures it:

Use the manufacturer code



2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line
CA307E	RCA 32 - 87	CA3053	BELI 87 - 22	CA3280BS	+RCA 87 - 43	CMP02Z #mil	+PMI 87 - 76	HA2-2522-2	INL 38 - 80
CA307G	RCA 32 - 88		+RCA	CA3290BT	+RCA 87 - 44	CMP03AJ #mil	PMI 88 - 25	HA2-2525-5	INL 38 - 61

and refer to Section 17 for complete manufacturer information. Local offices are listed in Section 15. Logos are in Section 16.

or d. An equivalent type:

Survey the type numbers with similar electrical parameters surrounding the known number to determine the suitable alternatives.



If you know: A common (generic) device number:

First: Turn to the first section of the **GENERIC PRODUCT INDEX**.

And need to know: Available manufacturers and type numbers and product class:

Locate your generic number



GENERIC PRODUCT INDEX

IN ORDER OF: (1) GENERIC NO. (2) MFR TYPE NO.

LINE No.	1] GENERIC NO	2] MANUFACTURER TYPE NO	MFR CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1] GENERIC NO	2] MANUFACTURER TYPE NO	MFR CODE	PRODUCT CLASS	PAGE & LINE
1	001	R001	DEC	GATE	132-31	111	4	TMNG4	WLD	GATE	100-106
2	1	1N5768	TJ	DI ARRAY	40-44	112	4	TMOA4	WLD	TIME DELAY	146-94
3	1	1N5768	FSC	DI ARRAY	40-44	113	4	TMOF4	WLD	TIME DELAY	146-23



Note the manufacturer type number, code and product class and the last columns will give you page and line numbers for full details.

Symbols and codes used in these technical sections are explained in the "Interpreter" pages at the back of the book.

WIE MAN DIESES NACHSCHLAGEWERK BENUTZT

3 Die DREI Richtlinien:

	Das wissen Sie:	Das wollen Sie wissen:	Dann lesen Sie:
1	Die elektrischen und mechanischen Anforderungen	Eine entsprechende Typennummer	Erläuterung 1
2	Eine Typennummer	Die elektrischen bzw. mechanischen Eigenschaften ODER die Schaltung und Anschlußbelegung ODER den Hersteller ODER eine äquivalente Ausführung	Erläuterung 2
3	Eine gemeinsame (oder generische) Bausteinnummer	Den Hersteller ODER die Typennummer ODER die Anwendungsklasse	Erläuterung 3



Das wissen Sie: die elektrischen und mechanischen Anforderungen (auch für militärische Ausführungen)

Das wollen Sie wissen: eine entsprechende Typennummer

- Wählen Sie aus dem Inhaltsverzeichnis den technischen Abschnitt aus, der sich auf die bekannte Bausteinart bezieht.
- Schlagen Sie diesen technischen Abschnitt auf. Die in den technischen Abschnitten verwendeten Symbole und Schlüssel sind auf den Seiten "Interpreter" am Ende des Buches erläutert.
- Beachten Sie die in der oberen rechten Ecke angegebene Reihenfolge der Parameter.



3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @ 25°C RATED SPECS		INPUT CHARACTERISTICS						MIN OUTPUT CHAR. @ 25°C		MIN TRANSFER CHAR @ 25°C			T C DRAWINGS	
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRIFT (V/°C)	4 OFFST (V)	5 OFFSET (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	OL VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	E O M D P E J	OUT-LINE Δ=MO
1	OP98EZ	30	500mW	.8u	28m	4.0n	120n		25	28	600k†	1.0kΔ	100	114	07	A358
2	OP21AJ(M)	30	500mW	1.0u	200u	5.0n	110n		25	28	600k†	1.0kΔ	25	100	SC	A361a
3	OP21AJ#m	30	500mW	1.0u	200u	5.0n	110n		25	28	600k†	1.0kΔ	25	100	SC	A361A



- Suchen Sie die Typennummern der Bausteine heraus, die im allgemeinen Ihren Anforderungen entsprechen. Wegen der Reihenfolge der Parameter stehen diese Typen alle zusammen. Wählen Sie die Typennummer des Bausteins, der Ihren Anforderungen am genauesten entspricht. Militärischen Ausführungen sind die Buchstaben JAN vorgesetzt.
- Falls Sie auch noch den Hersteller wissen möchten, suchen Sie den Herstellerschlüssel (Spalte "MFRS") auf den Seiten "Type No. Cross Index."
- Schlagen Sie den Abschnitt "Manufacturers' Codes. Names + Addresses" auf.

MANUFACTURERS' CODES, NAMES & ADDRESSES

OPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	(Manufacturers in order of D.A.T.A. Code Letters)
ADA			ADAC Corporation, 70 Tower Office Park, Woburn, MA 01801
AEGG			AEG-Telefunken Fachbereich, 4788 Warstein 2 (E31-FBE), Postfach 2160, Leistungshalbleiter, West Germany

- Dort finden Sie neben dem Herstellerschlüssel den vollen Namen sowie die Anschrift des jeweiligen Herstellers.
- Niederlassungen und Vertriebsbüros des Herstellers finden Sie im Abschnitt "Sales Office Listing," Firmenzeichen im Abschnitt "Logo."



Das wissen Sie: eine Typennummer (auch militärische mit den vorgesetzten Buchstaben JAN)

Zunächst: Abschnitt 1 "Type No. Cross Index" aufschlagen und die Typennummer suchen

Das wollen Sie wissen:

- Die elektrischen Eigenschaften:
Die Seiten- und Zeilenangaben neben der Typennummer notieren.



2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
HA5115-5	HAS	83 - 2	ICL7611BCTY	INL	48 - 86	ICL8008CTY	*INL	31 - 63	L78M18	TSAJ	78 - 47	LAS15A05	LAM	68 - 13
HA5130-2	HAS	52 - 68	ICL7611BMTY	INL	48 - 87	ICL8008MTY	*INL	31 - 60	L78M20	TSAJ	78 - 109	LAS15A12	LAM	72 - 43

Die entsprechende Seite aufschlagen und die angegebene Zeile suchen.
Dort finden Sie die elektrischen Eigenschaften.

ODER

b. Die Schaltung und Anschlußbelegung: Die Angaben sind in der letzten Spalte rechts.



3. OPERATIONAL AMPLIFIERS

LINE No.	TYPE No.	PWR SUP @ 25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @ 25°C		MIN TRANSFER CHAR. @ 25°C				DRAWINGS	
		TOT. VOLT. (ΔV)	MAX. IDLE P (W)	MAX VOLTAGE (V)	DRIFT (V/°C)	MAX CURRENT (A)	BIAS (A)	CM RANGE (ΔV)	DIFF. IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	OL VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	IT	CT	OUT-LINE Δ=MO
1	NE531V	30	300m	7.5m	300n	2.0k	20	20M	20	2.0k	500k	86	35	70	07		DL8
2	RC4136DB	30	300m	7.5m	300n	800n	30	300k	20	2.0k	86	1.0	70	07	A210	DL14au	
3	RC4136DC	30	300m	7.5m	300n	800n	30	300k	20	2.0k	86	1.0	70	07		DL14ev	

Die Zeichnungen finden Sie entsprechend numeriert in dem Abschnitt "Drawings."

ODER

c. Den Hersteller:

Suchen Sie den Herstellerschlüssel (Spalte "MFRS") auf den Seiten "Type No. Cross Index."



2. TYPE No. CROSS INDEX

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
CA307E	RCA	32 - 97	CA3053	BELI	57 - 22	CA3290BS	*RCA	87 - 43	CMP02Z#ml	*PMI	87 - 76	HA2-2522-2	INL	38 - 61
CA307G	RCA	32 - 98		*RCA		CA3290BT	*RCA	87 - 44	CMP03AJ#ml	PMI	88 - 25	HA2-2525-5	INL	38 - 61

Im Abschnitt "Manufacturers' Codes, Names + Addresses" finden Sie dann den vollen Namen sowie die Anschrift des Herstellers.

Niederlassungen und Vertriebsbüros des Herstellers finden Sie im Abschnitt "Sales Office Listing."

ODER

d. Eine äquivalente Ausführung:

Suchen Sie die Ihnen bekannte Typennummer Haus. Diese ist von Typen mit ähnlichen elektrischen Parametern umgeben.

Wählen Sie unter diesen die geeignete äquivalente Ausführung.

Die in den technischen Abschnitten verwendeten Symbole und Schlüssel sind auf den Seiten "Interpreter" am Ende des Buches erläutert.

3

Das wissen Sie: eine gemeinsame (oder generische) Bauteinnummer bzw. die Nummer eines in seiner Funktion äquivalenten Bausteins

Zunächst: den ersten Abschnitt des Verzeichnisses "Generic Product Index" bzw. das "Functional Equivalence Master Index" aufschlagen

Das wollen Sie wissen: lieferfähige Hersteller, Typennummern und Anwendungsklasse

Suchen Sie die Ihnen bekannte generische Nummer.



GENERIC PRODUCT INDEX

LINE No.	GENERIC NO	MANUFACTURER TYPE NO	MFR CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	GENERIC NO	MANUFACTURER TYPE NO	MFR CODE	PRODUCT CLASS	PAGE & LINE	IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO	
												1	2
1	001	0001	DEC	GATE	132 31	111	4	TMNG4	WLD	GATE	100 106	1	1
2	1	1N5768	TI	DI ARRAY	40 44	112	4	TMOA4	WLD	TIME DELAY	146 94	2	1
3	1	1N5768	FSC	DI ARRAY	40 44	113	4	TMOF4	WLD	TIME DELAY	146 23	3	1



Die Typennummer des Herstellers, den Herstellerschlüssel sowie die Anwendungsklasse notieren. Die Seiten- und Zeilenangaben in der letzten Spalte helfen Ihnen, ausführliche Daten zu finden.

COMMENT UTILISER CE MANUEL

3 MÉTHODES FONDAMENTALES:

	Si vous connaissez:	Et il vous faut:	Consultez:
1	Les caractéristiques électriques et mécaniques requises	Le type de composants	Explication 1
2	Le type de composants	Les caractéristiques électriques et/ou mécaniques OU La configuration de son circuit et de son boîtier OU Le fabricant OU Un modèle équivalent	Explication 2
3	Une référence de système commun (générique)	Le fabricant OU La référence exacte OU La classification	Explication 3



Si vous connaissez: les conditions électriques et mécaniques requises (y compris pour le secteur militaire)

Et il vous faut: La référence du modèle qui convient.

- Dans la table des matières, sélectionnez la Section Technique correspondant au genre de système connu.
- Reportez-vous à cette section. L'explication des codes et symboles utilisés dans les sections techniques se trouve à la fin du manuel, aux pages intitulées "Interprète."
- Remarquez les paramètres séquentiels en haut de la page, à droite.

3. OPERATIONAL AMPLIFIERS

LINE No.	TYPE No.	PWR SUP @ 25°C RATED SPECS		INPUT CHARACTERISTICS							MIN. OUTPUT CHAR. @ 25°C		MIN. TRANSFER CHAR. @ 25°C			T C		DRAWINGS	
		1 TOT. VOLT. (ΔV)	2 I MAX IDLE P (W)	3 MAX VOLTAGE (V)	4 DRIFT (V/°C)	5 J OFFSET (V)	6 I OFFSET (A)	7 BIAS (A)	8 CM RANGE (ΔV)	9 DIFF. IMP. (Ω)	10 P.P. VOLT. (ΔV)	11 P.P. CUR. (ΔA)	12 3dB BW (Hz)	13 VOLT. GAIN (dB)	14 SLEW RATE (V/μS)	15 CMRR (dB)	16 I C	17 O	18 M D P E
1	OP06EZ	30	500mW	8u	28m	4.0n	120n		0.8MΩ	25			1.0M	100	114	07	A356		
2	OP21AJ(M)	30	500mW	1.0u	200u	5.0n	110n			28		600k+	1.0k	25	100	5C	A361A	TC99	
3	OP21AJ#m	30	500mW	1.0u	200u	5.0n	110n			28		600k+	1.0k	25	100	5C	A361A	TC99	

- Repérez les références des modèles qui correspondent à vos conditions requises. Grâce à leur ordre séquentiel, ces modèles apparaîtront groupés; choisissez votre type. Les modèles militaires sont précédés du préfixe JAN.
- S'il vous faut le fabricant, utilisez le code des fabricants qui vous est donné à la page de l'Index des Modèles.
- Reportez-vous à la section consacrée aux Codes, Noms et Adresses des Fabricants.

MANUFACTURERS' CODES, NAMES & ADDRESSES

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	(Manufacturers in order of D.A.T.A. Code Letters)
↓	↓	↓	ADA ADAC Corporation, 70 Tower Office Park, Woburn, MA 01801
			AEGG AEG-Telefunken Fachbereich, 4788 Warstein 2 (E31-FBE), Postfach 2160, Leistungshalbleiter, West Germany

- Recherchez le code du fabricant et vous trouverez ainsi son nom.
- Vous trouverez les représentants locaux du fabricant dans la section où sont répertoriés les bureaux de vente; et les sigles des sociétés dans celle qui leur est consacrée.

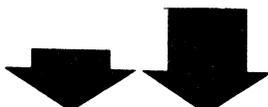


Si vous connaissez: la référence du modèle (y compris la référence militaire qui est précédée de JAN).

Tout d'abord: reportez-vous à la section 1, à la rubrique "TYPE" et trouvez la référence de votre modèle.

S'il vous faut:

- Les caractéristiques électriques:
Relevez le numéro de la page et de la ligne à côté de votre référence.



2. TYPE No. CROSS INDEX

TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line
78H05KC	*FSC 64 - 42	78M150B	MULB 74 - 45	410KF	*SSE 84 - 4	3804	DMC 95 - 15	9499FU	*TSC 96 - 78
78HV05CDA	MULB 66 - 24		VALG 74 - 45	415	*OPA 56 - 8	3805	*DMC 95 - 16	9496AE	*TSC 96 - 79

Repérez le numéro de cette page et de cette ligne et vous trouverez les caractéristiques électriques.

- ou b. Les dessins du circuit et du boîtier:
Ces numéros se trouvent dans la dernière colonne et les dessins sont dans la section qui leur est



3. OPERATIONAL AMPLIFIERS

LINE No.	TYPE No.	PWR SUP @ 25°C		INPUT CHARACTERISTICS							MIN. OUTPUT CHAR. @ 25°C		MIN TRANSFER CHAR @ 25°C			DRAWINGS		
		1) TOT	2) MAX	OVER OPERATING TEMP RANGE		MIN. @ 25°C		CHAR. @ 25°C		3dB	VOL	SLEW	CMRR	E O D CKT. P E J	OUT-LINE Δ-MO			
		VOLT (AV)	IDLE P (W)	3) DRIFT (V/°C)	4) OFFSET (V)	5) BIAS RANGE (A)	CM	DIFF IMP. (Ω)	VOLT (AV)	CUR. (A)	IMP. (Hz)	VOLT. GAIN (dB)				SLEW RATE (V/μS)		
1	uAF774APC*	30	336m	10u	4.0m	2.0n	4.0n	22	1.0T†	24	10kΩ	3.0M†	94	13 †	80	07	A3/8	DL14bz
2	TL084AMJ*	30	336m	10u	5.0m	20n	50n	24	1.0T†	24	10kΩ	3.0M‡	94	13 †	80	5C	A3/7g	DL14ah
3	TL084BCJ*	30	336m	10u	5.0m	3.0n	7.0n	24	1.0T†	24	10kΩ	3.0M‡	94	13 †	80	07	A3/7g	DL14ah

réservée et sont numérotés comme indiqué.

- ou c. Le fabricant:
Utilisez le code du fabricant.



2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE			
TYPE No.	MFRS Pg&Line	TYPE No.	MFRS Pg&Line
CA307E	RCA 32 - 87	CA3053	BELT 57 - 22
CA307G	RCA 32 - 88		CA3280BS
			*RCA 87 - 43
			*RCA 87 - 44
			CMP122#mil
			*PMI 87 - 76
			HA2-2522-2
			88 - 25
			HA2-2525-5
			INL 38 - 60
			INL 38 - 61

Reportez-vous aux Codes, Noms et Adresses des Fabricants pour de plus amples informations. Vous trouverez les représentants locaux dans la section où sont répertoriés les bureaux de vente.

- ou d. Un type équivalent:
Recherchez les références des modèles ayant des paramètres électriques similaires et se trouvant de la référence autour connue afin de déterminer les alternatives qui conviennent.

L'explication des codes et des symboles utilisés dans les sections techniques se trouvent à la fin du manuel, aux pages intitulées "Interpreter."



Si vous connaissez: une référence de système commun (générique) ou de fonctionnement équivalent.

Tout d'abord: reportez-vous à la première section de l'INDEX GÉNÉRIQUE DES PRODUITS ou l'INDEX PRINCIPAL DES ÉQUIVALENCES DE FONCTIONNEMENT.

Generic product index ou functional equivalence master index.

Et il vous faut: les fabricants, les références des modèles et la classification des produits disponibles.

Repérez votre numéro générique.



GENERIC PRODUCT INDEX

IN ORDER OF (1)GENERIC NO (2)MFR TYPE NO											
LINE No	GENERIC NO	MANUFACTURER TYPE NO	MFR CODE	PRODUCT CLASS	PAGE & LINE	LINE No	GENERIC NO	MANUFACTURER TYPE NO	MFR CODE	PRODUCT CLASS	PAGE & LINE
1	001	R001	DEC	GATE	132 31	111	4	TMNG4	WLD	GATE	100 108
2	1	1N5768	TII	DI ARRAY	40 44	112	4	TMOA4	WLD	TIME DELAY	146 94
3	1	1N5768	FSC	DI ARRAY	40 44	113	4	TMOF4	WLD	TIME DELAY	146 23



Relevez la référence du modèle du fabricant, le code et la classification du produit et les dernières colonnes vous fourniront le numéro de la page et de la ligne où vous trouverez de plus amples informations.

COMO USAR ESTE LIBRO

3 MODOS BASICOS:

1	Si Ud. sabe: Los requisitos eléctricos y mecánicos	Y necesita saber: Un número de tipo	Lea: Explicación 1
2	Un número de tipo	Las características eléctricas y/o mecánicas o su circuito y su encapsulado o quien lo fabrica o un tipo equivalente	Explicación 2
3	Un número de dispositivo común (o genérico)	el fabricante o el número de tipo o la clase	Explicación 3

1

Si Ud. sabe: los requisitos eléctricos y mecánicos (incluyendo los militares):
Y necesita saber: un número de tipo adecuado

- Elija de entre la tabla dematerias adecuada la sección técnica que corresponda al dispositivo conocido.
- Diríjase a esa sección. Los símbolos y códigos que se emplean en estas secciones técnicas se explican en las páginas "Interpretador" la parte trasera del libro.
- Mire los parámetros secuenciales en el extremo derecho superior de la página.



3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS					MIN. OUTPUT CHAR. @25°C			MIN. TRANSFER CHAR. @ 25°C			T C DRAWINGS	
		1 TOT VOLT (ΔV)	2 IMAX IDLE P (W)	3 DRIFT (V/°C)	4 OFFSET (V)	5 BIAS (A)	CM RANGE (ΔV)	DIFF IMP (Ω)	P-P VOLT (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	E O M D P E	OUT. LINE Δ=MO
1*	OP14CZ	30	500mW	10u	3.0m	10n	100n	2.3MΩ	24	0.8M	50 Δ	25	85	07	A4574	DLS
2#	TDB0347ADP*	30	500mW	10u	4.0m	100p	200p		24	4.0M	50 Δ	13 †	80	07	A5041	TO116
3#	TDC3403DG*	30	500mW	10u	6.0m	200n	1.5u		20	9.0k	25 Δ	600m†	70	5C	A373q	TO116



- Localice tipos que por lo general concuerdan con sus requisitos. Debido al control secuencial, estos tipos aparecerán juntos; seleccione su tipo. Los tipos militares aparecen con el prefijo JAN.
- Si necesita saber el fabricante, use el código de fabricantes que se encuentra en la página del Índice de Tipos.
- Diríjase a la Sección de Códigos, Nombres y Direcciones de Fabricantes.

MANUFACTURERS' CODES, NAMES & ADDRESSES

(Manufacturers in order of D.A.T.A. Code Letters)

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	
↓	↓	↓	
		ADA	ADAC Corporation, 70 Tower Office Park, Woburn, MA 01801
		AEGG	ALG-Telefunken Fachbereich, 4788 Warstein 2 (E31-FBE), Postfach 2160, Leistungshalbleiter, West Germany

- Encuentre el código del fabricante y así encontrará el nombre.
- Las oficinas locales del fabricante pueden encontrarse en la Sección de Listas de Oficinas de Venta y los logos se encuentran en la Sección de Logos.

2

Si Ud. sabe: el número del tipo (incluyendo el tipo militar con su prefijo JAN)
Primero: Diríjase a la Sección 1, el INDICE DE REFERENCIA SISTEMATICA DE NUMEROS DE TIPOS y localice el número de su tipo.

Si necesita saber:

- Las características eléctricas:
Mire la página y el número de la línea al lado de su Tipo.



2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS Po&Line	TYPE No.	MFRS Po&Line	TYPE No.	MFRS Po&Line	TYPE No.	MFRS Po&Line	TYPE No.	MFRS Po&Line	TYPE No.	MFRS Po&Line
AD530JH#3	*ANA 83 - 84	AD544KH	*ANA 22 - 41	AD7525CD	ANA 83 - 84	AM303A	*DTL 56 - 78	AML316	AMD 50 - 29		
AD530KD#1	*ANA 82 - 42	AD544LH	*ANA 22 - 40	AD7525KN	ANA 83 - 85	AM303B	*DTL 56 - 77	AML316A	AMD 49 - 37		

USE OF POWERS-OF-TEN MULTIPLIERS AND SYMBOLS & CODES IN THE TECHNICAL SECTIONS

To present a maximum amount of information in a minimum amount of space, use is made in this book of the following data modifiers:

POWERS-OF-TEN MULTIPLIERS

The powers-of-ten multipliers shown below are used in numeric columns when the value being entered is many times greater or smaller than the units of measure indicated in the column heading. Usually, the latter are the so-called 'basic' units; such as V (volts), A (amperes) and s (seconds). The multipliers and an explanation of their use are given below:

MULTIPLIERS			EXPLANATION		
<u>Power</u>	<u>Prefix</u>	<u>Symbol</u>	<u>Value of Data To Be Entered</u>	<u>Basic Unit In Column Heading</u>	<u>Actual Entry</u>
10 ¹²	tera	T	3 milliamperes	A (amperes)	3.0m
10 ⁹	giga	G	9 megaohms	Ω (ohms)	9.0M
10 ⁶	mega	M	0.5 volt	V (volts)	500m*
10 ³	kilo	k	10 amperes	A (amperes)	10
10 ²	hecto	h			
10	deka	da			
10 ⁻¹	deci	d			
10 ⁻²	centi	c			
10 ⁻³	milli	m			
10 ⁻⁶	micro	μ			
10 ⁻⁹	nano	n			
10 ⁻¹²	pico	p			
10 ⁻¹⁵	femto	f			
10 ⁻¹⁸	atto	a			

*May also be written as 0.5, with no multiplier

Recommended by International Committee on Weights and Measures. Adopted by National Bureau of Standards

SYMBOLS & CODES

Symbols: Symbols such as #, Δ, and \$ are used in all columns, numeric or otherwise, whenever the data entries differ in some way from the entity defined in the column heading. For instance, if a given heading specifies Max. Power (in Watts) and the numeric value being entered for a given type represents the minimum power instead, the variance is denoted by the appearance of a special symbol alongside the numeric entry.

Codes: Codes are used in some columns as means to abbreviate the data being entered. The codes may be alphabetic (A, B, C, etc.) numeric (1,2,3, etc.) or some combination of both.

Note:

The symbols and codes used herein are explained on the Interpreter Pages in back of the book.

HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS INDEX

Sequencing of type numbers in the Type Number Cross-Index is governed by the following rules:

<u>Rules</u>	<u>Examples</u>	<u>Rules</u>	<u>Examples</u>
1. Type numbers are listed in numeric-alphabetic sequence; i.e., type numbers beginning with a number (decimal, fraction, or whole) precede type numbers beginning with a letter.	13A01 143 1202 A147 AN127 B2000	3. Zeros are ignored in sequencing except when the zero is the only basis for distinguishing one type number from another. In this case the type number containing the zero is listed first.	0112 112 0113 00115 AP01 AP1 AP02
2. Decimals and fractions precede whole numbers. An equivalent decimal precedes the fraction when the remainder of type number is identical.	.25Z150 1/4Z150 3/4M12Z 1T3	4. Number and/or letter groupings preceding hyphens or slashes are the controlling factors in sequencing. The hyphens and slashes themselves precede any identically positioned letters also having the same beginning number/letter groupings.	66-0706 66M1 70/10 70A9

HOW TYPE NOS. ARE ARRANGED IN THE TECHNICAL SECTION — SEQUENCING PARAMETERS

The arrangement of types in the technical sections is keyed to a set of special characteristics selected for their importance from among the general group of characteristics tabulated in each section. These selected characteristics, or sequencing parameters, differ from one section to another, and are identified at the top of each page, as shown in the sample below.

MAJOR CHARACTERISTICS										SEQUENCING PARAMETERS					
3. OPERATIONAL AMPLIFIERS															
LINE No.	TYPE No.	PWR SUP @25°C RATED PECS	OVER OPERATING TEMP. RANGE	INPUT CHARACTERISTICS			MIN. @25°C		MIN OUTPUT CHAR @25°C		MIN TRANSFER CHAR @ 25°C		T C	DRAWINGS	
		1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 MAX VOLTAGE (V)	4 MAX CURRENT (A)	CM (A)	DIFF (ΔV)	P.P. (ΔV)	P.P. (ΔA)	3dB BW (Hz)	O.L. VOLT GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	M D P E	OUT. LINE Δ=MO

The different types within a section are first arranged in ascending numeric (or alphabetic) order of the first such parameters. Groups of types having a common value for the first parameter are then arranged in ascending order of the second parameter. This process continues for each parameter in turn, up to and including the last parameter which, in every instance, is the type number itself. The final arrangement, by type number, is done in accordance with the sequencing of type numbers in the cross-index, as explained on the preceding page.

A simplified model of the arrangement as described is shown below.

4 Type Number	Characteristics			
	1 A	2 B	C	3 D
A13	100		325	
A4	100		1000	20
A9	100	A	20	25
A10	100	A	200	25
A3	100	B	40	15
A1	100	C	80	10
A8	100	C	900	15
A7	100	D	35	30
A11	110	A	60	25
A2	120	A	300	15
A5	120	B	150	20
A6	120	B	200	20
A12	120	B	475	25

↑ Last Seq. Par. ↑ 1st Seq. Par. ↑ 2nd Seq. Par. ↑ (Not Seq.) ↑ 3rd Seq. Par.

Note that the absence of an entry for any sequencing parameter is regarded as a zero, and precedes any actual entries in the sequencing.

GENERIC PRODUCT INDEX

IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

LINE No.	1] GENERIC NO.	2] MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1] GENERIC NO.	2] MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	0001	NH0001-883	NSC	OP AMP	48- 98	111	02	OP02DZ	PMI	OP AMP	44- 13
2	0001	NH0001C	NSC	OP AMP	48- 99	112	02	OP02EJ	PMI	OP AMP	29- 21
3	01	CMF01EZ	PMI	VOLT COMP	86- 73	113	02	OP02EZ	PMI	OP AMP	43- 87
4	01	CMF01GR	PMI	VOLT COMP	86- 83	114	02	OP02G	PMI	OP AMP	32- 29
5	01	CMF01N	PMI	VOLT COMP	86- 68	115	02	OP02GR	PMI	OP AMP	32- 35
6	01	CMF01Z #mil	PMI	VOLT COMP	86- 75	116	02	OP02J	PMI	OP AMP	32- 84
7	01	PA01	AMT	OP AMP	55- 99	117	02	OP02N	PMI	OP AMP	32- 26
8	01	GAP01AX/883(M)	PMI	MISC	101- 5	118	02	OP02Y	PMI	OP AMP	32- 85
9	01	GAP01BX/883(M)	PMI	MISC	101- 6	119	02	OP02Z(M)	PMI	OP AMP	54- 95
10	01	GAP01BX #mil	PMI	MISC	101- 7	120	2	L2OV5	LAM	MISC	103- 35
11	01	GAP01EP	PMI	MISC	101- 8	121	2	L2OV6	LAM	MISC	103- 36
12	01	GAP01EP/883(M)	PMI	MISC	101- 9	122	2	L2OV12	LAM	MISC	103- 37
13	01	GAP01EX	PMI	MISC	101- 10	123	2	L2OV15	LAM	MISC	103- 38
14	01	GAP01EX/883(M)	PMI	MISC	101- 11	124	2	L2OV20	LAM	MISC	103- 39
15	01	GAP01FP	PMI	MISC	101- 12	125	2	L2OV24	LAM	MISC	103- 40
16	01	GAP01FP/883(M)	PMI	MISC	101- 13	126	2	VF02C	DTL	SPECIAL	94- 13
17	01	GAP01FX	PMI	MISC	101- 14	127	0003	LH0003CH	NSC	OP AMP	51- 10
18	01	GAP01FX/883(M)	PMI	MISC	101- 15	128	0003	LH0003H	NSC	OP AMP	51- 11
19	01	PKD01AY	PMI	SPECIAL	94- 76	129	0003	NH0003-883	NSC	OP AMP	51- 84
20	01	PKD01BY	PMI	SPECIAL	94- 77	130	03	BUF03AJ	PMI	SPECIAL	95- 38
21	01	PKD01EP	PMI	SPECIAL	94- 78	131	03	BUF03BJ	PMI	SPECIAL	95- 39
22	01	PKD01EY	PMI	SPECIAL	94- 79	132	03	BUF03EJ	PMI	SPECIAL	95- 40
23	01	PKD01FP	PMI	SPECIAL	94- 80	133	03	BUF03FJ	PMI	SPECIAL	95- 41
24	01	PKD01FY	PMI	SPECIAL	94- 81	134	03	BUF03G	PMI	SPECIAL	90- 15
25	01	PKD01N	PMI	SPECIAL	94- 82	135	03	BUF03N	PMI	SPECIAL	90- 16
26	01	REF01AJ	PMI	MISC	102- 87	136	3	RF3P01	RICJ	MISC	105- 73
27	01	REF01AZ(M)	PMI	MISC	102- 88	137	3	AH3	ALP	WIDEBD AMP	60- 79
28	01	REF01CJ	PMI	MISC	102- 89	138	3	VF03C	DTL	SPECIAL	94- 14
29	01	REF01CP	PMI	MISC	102- 90	139	0004	NH0004-883	NSC	OP AMP	56- 7
30	01	REF01CZ	PMI	MISC	102- 91	140	04	CMF04G #ai	PMI	VOLT COMP	88- 29
31	01	REF01EJ	PMI	MISC	102- 92	141	04	CMF04N #ai	PMI	VOLT COMP	88- 28
32	01	REF01EJ	PMI	MISC	102- 93	142	04	OP04AK	PMI	OP AMP	29- 22
33	01	REF01G	PMI	MISC	102- 94	143	04	OP04AY	PMI	OP AMP	29- 23
34	01	REF01HJ	PMI	MISC	102- 95	144	04	OP04BK	PMI	OP AMP	33- 12
35	01	REF01HP	PMI	MISC	102- 96	145	04	OP04BY	PMI	OP AMP	33- 13
36	01	REF01HZ	PMI	MISC	102- 97	146	04	OP04CK	PMI	OP AMP	32- 86
37	01	REF01J	PMI	MISC	102- 98	147	04	OP04CY	PMI	OP AMP	32- 87
38	01	REF01N	PMI	MISC	102- 99	148	04	OP04DK	PMI	OP AMP	33- 14
39	01	REF01Z(M)	PMI	MISC	102-100	149	04	OP04DY	PMI	OP AMP	33- 15
40	01	HSREF01	HBC	SPECIAL	96- 26	150	04	OP04EK	PMI	OP AMP	29- 24
41	01	OP01CJ	PMI	OP AMP	33- 5	151	04	OP04EY	PMI	OP AMP	29- 25
42	01	OP01CP	PMI	OP AMP	33- 6	152	04	OP04G	PMI	OP AMP	37- 25
43	01	OP01CZ	PMI	OP AMP	44- 11	153	04	OP04K	PMI	OP AMP	32- 88
44	01	OP01EZ	PMI	OP AMP	43- 95	154	04	OP04N	PMI	OP AMP	37- 23
45	01	OP01FZ(M)	PMI	OP AMP	54- 94	155	04	OP04Y	PMI	OP AMP	32- 89
46	01	OP01FZ #mil	PMI	OP AMP	43- 96	156	0005	LH0005AH	NSC	OP AMP	26- 68
47	01	OP01G	PMI	OP AMP	32- 28	157	0005	NH0005-883	NSC	OP AMP	26- 69
48	01	OP01GJ	PMI	OP AMP	33- 7	158	005	L005T1	SGAI	VOLT REG	63- 60
49	01	OP01GR	PMI	OP AMP	32- 33	159	05	CMF05AJ(M)	PMI	VOLT COMP	86- 28
50	01	OP01GY	PMI	OP AMP	33- 8	160	05	CMF05AZ(M)	PMI	VOLT COMP	86- 29
51	01	OP01GZ(M)	PMI	OP AMP	54-103	161	05	CMF05BJ(M)	PMI	VOLT COMP	86- 32
52	01	OP01GZ #mil	PMI	OP AMP	44- 12	162	05	CMF05BZ(M)	PMI	VOLT COMP	86- 33
53	01	OP01HJ	PMI	OP AMP	29- 17	163	05	CMF05EJ(A)	PMI	VOLT COMP	86- 30
54	01	OP01HP	PMI	OP AMP	29- 18	164	05	CMF05EP	PMI	VOLT COMP	86- 31
55	01	OP01HZ	PMI	OP AMP	43- 85	165	05	CMF05EZ(M)	PMI	VOLT COMP	82- 1
56	01	OP01J	PMI	OP AMP	29- 19	166	05	CMF05FJ(A)	PMI	VOLT COMP	86- 34
57	01	OP01N	PMI	OP AMP	32- 27	167	05	CMF05FP	PMI	VOLT COMP	86- 35
58	01	OP01Z(M)	PMI	OP AMP	54- 83	168	05	CMF05FZ(M)	PMI	VOLT COMP	86- 36
59	01	CMF01CP	PMI	VOLT COMP	86- 82	169	05	CMF05G #ai	PMI	VOLT COMP	83- 38
60	01	CMF01CZ	PMI	VOLT COMP	86- 87	170	05	CMF05N #ai	PMI	VOLT COMP	83- 37
61	1	AH1	ALP	WIDEBD AMP	60- 78	171	05	REF05AJ(M)	PMI	MISC	103- 9
62	1	VFO-1C	DTL	SPECIAL	93-103	172	05	REF05BJ(M)	PMI	MISC	103- 10
63	1	VFO-1R	DTL	SPECIAL	93-104	173	05	REF05BLJ(M)	PMI	SPECIAL	96- 40
64	0002	CTS0002GB	CMJ	SPECIAL	95- 45	174	05	REF05BLZ(M)	PMI	SPECIAL	96- 41
65	0002	CTS0002H/B	CMJ	SPECIAL	95- 43	175	05	REF05BZ(M)	PMI	SPECIAL	96- 42
66	0002	HX0002	HAL	SPECIAL	90- 9	176	05	REF05FJ(A)	PMI	SPECIAL	96- 43
67	0002	HX0002C	HAL	SPECIAL	90- 10	177	05	REF05FLJ(A)	PMI	SPECIAL	96- 44
68	0002	LH0002CH	NSC	SPECIAL	90- 11	178	05	REF05FLZ(A)	PMI	SPECIAL	96- 45
69	0002	LH0002CN	NSC	SPECIAL	90- 12	179	05	REF05FZ(A)	PMI	SPECIAL	96- 46
70	0002	LH0002H	NSC	SPECIAL	90- 13	180	05	OP05AJ	PMI	OP AMP	34- 56
71	0002	NH0002-883	NSC	SPECIAL	90- 14	181	05	OP05AY	PMI	OP AMP	34- 57
72	02	CMF02CJ	PMI	VOLT COMP	86- 85	182	05	OP05AZ(M)	PMI	OP AMP	54- 22
73	02	CMF02CP	PMI	VOLT COMP	86- 86	183	05	OP05CJ	PMI	OP AMP	35-103
74	02	CMF02CZ	PMI	VOLT COMP	86- 88	184	05	OP05CP	PMI	OP AMP	35-104
75	02	CMF02EJ	PMI	VOLT COMP	86- 70	185	05	OP05CY	PMI	OP AMP	35-105
76	02	CMF02EP	PMI	VOLT COMP	86- 71	186	05	OP05CZ	PMI	OP AMP	43- 54
77	02	CMF02EZ	PMI	VOLT COMP	86- 74	187	05	OP05EJ	PMI	OP AMP	34- 70
78	02	CMF02GR	PMI	VOLT COMP	86- 84	188	05	OP05EP	PMI	OP AMP	34- 71
79	02	CMF02J	PMI	VOLT COMP	86- 72	189	05	OP05EY	PMI	OP AMP	34- 72
80	02	CMF02N	PMI	VOLT COMP	86- 69	190	05	OP05EZ	PMI	OP AMP	43- 36
81	02	CMF02Z #mil	PMI	VOLT COMP	86- 76	191	05	OP05G	PMI	OP AMP	34- 55
82	02	REF02AJ	PMI	MISC	102-101	192	05	OP05GR	PMI	OP AMP	35- 79
83	02	REF02AZ(M)	PMI	MISC	102-102	193	05	OP05J	PMI	OP AMP	34- 74
84	02	REF02CJ	PMI	MISC	102-103	194	05	OP05N	PMI	OP AMP	34- 50
85	02	REF02CP	PMI	MISC	102-104	195	05	OP05Y	PMI	OP AMP	34- 75
86	02	REF02CZ	PMI	MISC	102-105	196	05	OP05Z(M)	PMI	OP AMP	54- 67
87	02	REF02DJ	PMI	MISC	102-106	197	5	AH5	ALP	WIDEBD AMP	60- 80
88	02	HSREF02	HBC	SPECIAL	96- 27	198	06	OP06AJ	PMI	OP AMP	42-105
89	02	REF02DP	PMI	MISC	102-107	199	06	OP06AZ	PMI	OP AMP	42-106
90	02	REF02DZ	PMI	MISC	102-108	200	06	OP06BJ	PMI	OP AMP	43- 39
91	02	REF02EJ	PMI	MISC	102-109	201	06	OP06BZ	PMI	OP AMP	43- 40
92	02	REF02EZ	PMI	MISC	102-110	202	06	OP06CJ #mil	PMI	OP AMP	43- 55
93	02	REF02G	PMI	MISC	103- 1	203	06	OP06CZ #mil	PMI	OP AMP	43- 56
94	02	REF02HJ	PMI	MISC	103- 2	204	06	OP06EJ	PMI	OP AMP	43- 1
95	02	REF02HP	PMI	MISC	103- 3	205	06	OP06EZ	PMI	OP AMP	43- 2
96	02	REF02HZ	PMI	MISC	103- 4	206	06	OP06FJ	PMI	OP AMP	43- 37
97	02	REF02J	PMI	MISC	103- 5	207	06	OP06FZ	PMI	OP AMP	43- 38
98	02	REF02N	PMI	MISC	103- 6	208	06	OP06G	PMI	OP AMP	35- 78
99	02	REF02Z	PMI	MISC	103- 7	209	06	OP06GJ	PMI	OP AMP	43- 57
100	02	REF02Z #mil	PMI	MISC	103- 8	210	06	OP06GR	PMI	OP AMP	36- 33
101	02	OP02AJ	PMI	OP AMP	29- 20	211	06	OP06GZ	PMI	OP AMP	43- 58
102	02	OP02AZ(M)	PMI	OP AMP	54- 82	212	06	OP06N	PMI	OP AMP	33- 80
103	02	OP02AZ #mil	PMI	OP AMP	43- 86	213	6	L6OV5	LAM	MISC	103- 41
104	02	OP02BJ	PMI	OP AMP	33- 9	214	6	L6OV6	LAM	MISC	103- 42
105	02	OP02BZ(M)	PMI	OP AMP	54- 99	215	6	L6OV12	LAM	MISC	103- 43
106	02	OP02CJ	PMI	OP AMP	32- 82	216	6	L6OV15	LAM	MISC	103- 44
107	02	OP02CP	PMI	OP AMP	32- 83	217	6	L6OV24	LAM	MISC	103- 45
108	02	OP02CZ	PMI	OP AMP	43- 97	218	6	L6OV28	LAM	MISC	103- 46
109	02	OP02DJ	PMI	OP AMP	33- 10	219	6	ZTK6.8	ITTG	MISC	103-109
110	02	OP02DP	PMI	OP AMP	33- 11	220	07	PA07	AMT	OP AMP	56- 26

GENERIC PRODUCT INDEX

IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	07	PA07A	AMT	OP AMP	56-25	111	11	LM11CLN	NSC	OP AMP	53-2				
2	07	ADOP07AH	ANA	OP AMP	34-51	112	11	LM11CLN-14	NSC	OP AMP	53-3				
3	07	ADOP07C	ANA	OP AMP	35-44	113	11	LM11CN	MOTA	OP AMP	53-15				
4	07	ADOP07CH	ANA	OP AMP	35-82	114	11	LM11CN	NSC	OP AMP	53-15				
5	07	ADOP07CN	ANA	OP AMP	35-87	115	11	LM11CN-14	NSC	OP AMP	53-16				
6	07	ADOP07D	ANA	OP AMP	35-45	116	11	LM11D	NSC	OP AMP	52-83				
7	07	ADOP07DH	ANA	OP AMP	35-99	117	11	LM11H	MOTA	OP AMP	52-84				
8	07	ADOP07DN	ANA	OP AMP	35-101	118	11	LM11H	NSC	OP AMP	52-84				
9	07	ADOP07EH	ANA	OP AMP	34-59	119	11	LM11J8	MOTA	OP AMP	52-79				
10	07	ADOP07EN	ANA	OP AMP	34-68	120	11	LM11J	MOTA	OP AMP	52-80				
11	07	ADOP07H	ANA	OP AMP	34-60	121	11	OP11AY	PMI	OP AMP	38-32				
12	07	OP07AJ	PMI	OP AMP	34-52	122	11	OP11BY	PMI	OP AMP	38-55				
13	07	OP07AY	PMI	OP AMP	34-53	123	11	OP11CY(M)	PMI	OP AMP	55-50				
14	07	OP07AZ(M)	PMI	OP AMP	54-9	124	11	OP11CY#mil	PMI	OP AMP	45-44				
15	07	OP07AZ#mil	PMI	OP AMP	42-103	125	11	OP11EP	PMI	OP AMP	38-29				
16	07	OP07C(A)	TII	OP AMP	53-108	126	11	OP11EY	PMI	OP AMP	38-30				
17	07	OP07CJ	PMI	OP AMP	35-83	127	11	OP11FP	PMI	OP AMP	38-42				
18	07	OP07CP	ANS	OP AMP	35-84	128	11	OP11FY	PMI	OP AMP	38-43				
19	07	OP07CP	PMI	OP AMP	35-84	129	11	OP11G	PMI	OP AMP	38-1				
20	07	OP07CY	PMI	OP AMP	35-85	130	11	OP11GP	PMI	OP AMP	43-53				
21	07	OP07CZ	PMI	OP AMP	43-25	131	11	OP11GR	PMI	OP AMP	42-28				
22	07	OP07D(A)	TII	OP AMP	53-107	132	11	OP11GY	PMI	OP AMP	45-45				
23	07	OP07DJ	PMI	OP AMP	35-100	133	11	OP11N	PMI	OP AMP	37-109				
24	07	OP07DP	PMI	OP AMP	43-43	134	11	ZTK11	ITTG	MISC	104-1				
25	07	OP07E(A)	TII	OP AMP	53-102	135	12	OPA12HT	BUB	OP AMP	25-22				
26	07	OP07EJ	PMI	OP AMP	34-61	136	12	PA12	AMT	OP AMP	56-21				
27	07	OP07EP	PMI	OP AMP	34-62	137	12	PA12A	AMT	OP AMP	56-28				
28	07	OP07EY	PMI	OP AMP	34-63	138	12	OP12AJ	PMI	OP AMP	28-34				
29	07	OP07EZ	PMI	OP AMP	54-46	139	12	OP12AZ(M)	PMI	OP AMP	52-77				
30	07	OP07G	PMI	OP AMP	35-31	140	12	OP12BJ	PMI	OP AMP	28-36				
31	07	OP07GR	PMI	OP AMP	36-32	141	12	OP12BZ(M)	PMI	OP AMP	53-4				
32	07	OP07J	PMI	OP AMP	34-65	142	12	OP12BZ#mil	PMI	OP AMP	53-6				
33	07	OP07N	PMI	OP AMP	35-30	143	12	OP12CJ	PMI	OP AMP	28-60				
34	07	OP07Y	PMI	OP AMP	34-66	144	12	OP12CZ(M)	PMI	OP AMP	48-2				
35	07	OP07Z(M)	PMI	OP AMP	54-26	145	12	OP12EJ	PMI	OP AMP	28-32				
36	7	HFB7	DDC	SPECIAL	90-28	146	12	OP12EZ	PMI	OP AMP	52-78				
37	7	AH7	ALP	WIDEBD AMP	61-70	147	12	OP12FJ	PMI	OP AMP	28-35				
38	08	PA08	AMT	OP AMP	56-45	148	12	OP12FZ	PMI	OP AMP	53-5				
39	08	PA08A	AMT	OP AMP	56-40	149	12	OP12G	PMI	OP AMP	27-28				
40	08	OP08AJ	PMI	OP AMP	28-33	150	12	OP12GJ	PMI	OP AMP	28-59				
41	08	OP08AZ(M)	PMI	OP AMP	52-76	151	12	OP12GR	PMI	OP AMP	27-31				
42	08	OP08CJ	PMI	OP AMP	28-61	152	12	OP12GZ	PMI	OP AMP	43-90				
43	08	OP08CZ(M)	PMI	OP AMP	53-24	153	12	OP12N	PMI	OP AMP	27-26				
44	08	OP08EJ	PMI	OP AMP	28-31	154	0013	AH0013CA	OEI	WIDEBD AMP	61-32				
45	08	OP08EP	PMI	OP AMP	43-44	155	0013	AH0013CB	OEI	WIDEBD AMP	61-33				
46	08	OP08EZ	PMI	OP AMP	43-45	156	0013	AH0013MA	OEI	WIDEBD AMP	61-34				
47	08	OP08G	PMI	OP AMP	48-87	157	0013	AH0013MB	OEI	WIDEBD AMP	61-35				
48	08	OP08GJ	PMI	OP AMP	28-57	158	13	D13V1	SWT	VOLT REG	62-24				
49	08	OP08GP	PMI	OP AMP	28-58	159	13	D13V2	SWT	VOLT REG	62-25				
50	08	OP08GR	PMI	OP AMP	48-88	160	13	D13V3	SWT	VOLT REG	62-26				
51	08	OP08GZ	PMI	OP AMP	53-25	161	13	D13V4	SWT	VOLT REG	62-27				
52	08	OP08N	PMI	OP AMP	48-86	162	14	LAS14AU	LAM	VOLT REG	81-15				
53	09	PA09	AMT	OP AMP	56-18	163	14	OP14AJ	PMI	OP AMP	29-26				
54	09	PA09A	AMT	OP AMP	56-17	164	14	OP14AZ(M)	PMI	OP AMP	54-84				
55	09	OP09AY	PMI	OP AMP	38-31	165	14	OP14AZ#mil	PMI	OP AMP	43-88				
56	09	OP09BY	PMI	OP AMP	38-54	166	14	OP14BJ	PMI	OP AMP	33-16				
57	09	OP09EP	PMI	OP AMP	38-28	167	14	OP14BZ(M)	PMI	OP AMP	54-104				
58	09	OP09EY	PMI	OP AMP	38-27	168	14	OP14CJ	PMI	OP AMP	32-90				
59	09	OP09FP	PMI	OP AMP	38-40	169	14	OP14CP	PMI	OP AMP	32-91				
60	09	OP09FY	PMI	OP AMP	38-41	170	14	OP14CZ	PMI	OP AMP	43-98				
61	09	OP09G	PMI	OP AMP	37-110	171	14	OP14DJ	PMI	OP AMP	33-17				
62	09	OP09GP	PMI	OP AMP	43-52	172	14	OP14DZ	PMI	OP AMP	44-14				
63	09	OP09GR	PMI	OP AMP	42-27	173	14	OP14EJ	PMI	OP AMP	29-27				
64	09	OP09N	PMI	OP AMP	37-108	174	14	OP14EP	PMI	OP AMP	29-28				
65	9	AH9	ALP	WIDEBD AMP	61-71	175	14	OP14EZ	PMI	OP AMP	43-89				
66	9	ZTK9	ITTG	MISC	103-110	176	14	OP14G	PMI	OP AMP	37-26				
67	0010	AH0010F(A)	OEI	SPECIAL	95-42	177	14	OP14GR	PMI	OP AMP	38-2				
68	10	PA10	AMT	OP AMP	56-20	178	14	OP14J	PMI	OP AMP	32-92				
69	10	PA10A	AMT	OP AMP	56-27	179	14	OP14N	PMI	OP AMP	37-24				
70	10	SMP10EY	PMI	SPECIAL	94-99	180	14	OP14Z(M)	PMI	OP AMP	54-96				
71	10	SMP10FY	PMI	SPECIAL	94-100	181	015	UTF015	AVA	MISC	103-101				
72	10	MF10BN	NSC	MISC	104-49	182	15	LAS15A05	LAM	VOLT REG	66-14				
73	10	MF10CN	NSC	MISC	104-50	183	15	LAS15A12	LAM	VOLT REG	72-37				
74	10	REF10AJ(M)	PMI	MISC	103-11	184	15	LAS15A15	LAM	VOLT REG	75-25				
75	10	REF10BJ(M)	PMI	MISC	103-12	185	15	LAS15CB	LAM	VOLT REG	72-60				
76	10	REF10BLJ(M)	PMI	SPECIAL	96-47	186	15	LAS15U	LAM	VOLT REG	75-110				
77	10	REF10BLJ#mil	PMI	SPECIAL	96-48	187	15	AH15	ALP	WIDEBD AMP	60-103				
78	10	REF10BZ(M)	PMI	SPECIAL	96-49	188	15	OP15AJ	PMI	OP AMP	34-85				
79	10	REF10FLZ(A)	PMI	SPECIAL	96-50	189	15	OP15AZ(M)	PMI	OP AMP	54-72				
80	10	RHY10	SIEG	MISC	106-11	190	15	OP15BJ	PMI	OP AMP	35-10				
81	10	LM10BH	NSC	OP AMP	25-12	191	15	OP15BZ(M)	PMI	OP AMP	54-88				
82	10	LM10BLH	NSC	OP AMP	25-13	192	15	OP15CJ	PMI	OP AMP	36-25				
83	10	LM10CH	NSC	OP AMP	25-15	193	15	OP15CP	ANS	OP AMP	36-26				
84	10	LM10CLH	NSC	OP AMP	25-16	194	15	OP15CZ(M)	PMI	OP AMP	48-11				
85	10	LM10H	NSC	OP AMP	25-14	195	15	OP15EJ	PMI	OP AMP	34-84				
86	10	CA10A	RET	OP AMP	48-79	196	15	OP15EZ	PMI	OP AMP	54-73				
87	10	OP10AY	PMI	OP AMP	34-76	197	15	OP15FJ	PMI	OP AMP	35-9				
88	10	OP10CY	PMI	OP AMP	35-106	198	15	OP15FZ	PMI	OP AMP	54-89				
89	10	OP10EY	PMI	OP AMP	34-73	199	15	OP15G	PMI	OP AMP	27-42				
90	10	OP10Y	PMI	OP AMP	34-77	200	15	OP15GJ	PMI	OP AMP	36-21				
91	11	OPA11HT	BUB	OP AMP	25-17	201	15	OP15GR	PMI	OP AMP	27-45				
92	11	PA11	AMT	OP AMP	55-108	202	15	OP15GZ	PMI	OP AMP	48-12				
93	11	SMP11EY	PMI	SPECIAL	94-101	203	15	OP15N	PMI	OP AMP	27-35				
94	11	SMP11FY	PMI	SPECIAL	94-102	204	16	LAS16CB	LAM	VOLT REG	72-65				
95	11	SMP11GY	PMI	SPECIAL	94-103	205	16	LAS16U	LAM	VOLT REG	75-89				
96	11	RHY11	SIEG	MISC	106-12	206	16	OP16AJ	PMI	OP AMP	39-62				
97	11	AH11	ALP	WIDEBD AMP	60-100	207	16	OP16AZ(M)	PMI	OP AMP	54-74				
98	11	AH11-1	ALP	WIDEBD AMP	60-101	208	16	OP16BJ	PMI	OP AMP	39-105				
99	11	AH11-2	ALP	WIDEBD AMP	60-102	209	16	OP16BZ(M)	PMI	OP AMP	54-90				
100	11	LM11CD	NSC	OP AMP	53-13	210	16	OP16CJ	PMI	OP AMP	40-83				
101	11	LM11CH	MOTA	OP AMP	53-14	211	16	OP16CP	ANS	OP AMP	40-84				
102	11	LM11CH	NSC	OP AMP	53-14	212	16	OP16CZ(M)	PMI	OP AMP	48-13				
103	11	LM11CJ8	MOTA	OP AMP	53-9	213	16	OP16EJ	PMI	OP AMP	39-60				
104	11	LM11CJ	MOTA	OP AMP	53-10	214	16	OP16EZ	PMI	OP AMP	54-75				
105	11	LM11CLD	NSC	OP AMP	52-85	215	16	OP16FJ	PMI	OP AMP	39-103				
106	11	LM11CLH	MOTA	OP AMP	53-1	216	16	OP16FZ	PMI	OP AMP	54-91				
107	11	LM11CLJ	NSC	OP AMP	53-1	217	16	OP16G	PMI	OP AMP	27-43				
108	11	LM11CLJ8	MOTA	OP AMP	52-81	218	16	OP16GJ	PMI	OP AMP	40-81				
109	11	LM11CLJ	MOTA	OP AMP	52-82	219	16	OP16GR	PMI	OP AMP	27-46				
110	11	LM11CLN	MOTA	OP AMP	53-2	220	16	OP16GZ	PMI	OP AMP	48-14				

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1	16			OP16N	PMI	OP AMP	27- 36	111	025			ZNREF025C3	FERB	SPECIAL	95- 59
2	17			RHY17	SIEG	MISC	106- 13	112	25			AH25	ALP	WIDEBD AMP	61- 12
3	17			AH17	ALP	WIDEBD AMP	60-104	113	27			OFA27AJ(M)	BUB	OP AMP	54- 15
4	17			OP17AJ	PMI	OP AMP	39- 63	114	27			OFA27AZ(M)	BUB	OP AMP	54- 16
5	17			OP17AZ(M)	PMI	OP AMP	54- 76	115	27			OFA27BJ(M)	BUB	OP AMP	54- 39
6	17			OP17BJ	PMI	OP AMP	39-106	116	27			OFA27BZ(M)	BUB	OP AMP	54- 40
7	17			OP17BZ(M)	PMI	OP AMP	54- 92	117	27			OFA27CJ(M)	BUB	OP AMP	54- 61
8	17			OP17CJ	PMI	OP AMP	40- 85	118	27			OFA27EJ	BUB	OP AMP	54- 17
9	17			OP17CP	ANS	OP AMP	40- 86	119	27			OFA27FJ	BUB	OP AMP	54- 41
10	17			OP17CZ(M)	PMI	OP AMP	48- 15	120	27			OFA27GJ	BUB	OP AMP	54- 62
11	17			OP17EJ	PMI	OP AMP	39- 61	121	27			AH27	ALP	WIDEBD AMP	61- 13
12	17			OP17EZ	PMI	OP AMP	54- 77	122	27			OP27ADE(M)	RTN	OP AMP	55- 11
13	17			OP17FJ	PMI	OP AMP	39-104	123	27			OP27AJ	MPS	OP AMP	54- 11
14	17			OP17FZ	PMI	OP AMP	54- 93	124	27			OP27AJ	PMI	OP AMP	54- 11
15	17			OP17GJ	PMI	OP AMP	27- 44	125	27			OP27AT(MA)	RTN	OP AMP	55- 12
16	17			OP17GJ	PMI	OP AMP	40- 82	126	27			OP27AZ	MPS	OP AMP	54- 12
17	17			OP17GR	PMI	OP AMP	27- 47	127	27			OP27AZ	PMI	OP AMP	54- 12
18	17			OP17GZ	PMI	OP AMP	48- 16	128	27			OP27BDE	RTN	OP AMP	55- 15
19	17			OP17N	PMI	OP AMP	27- 37	129	27			OP27BJ	MPS	OP AMP	54- 35
20	18			RHY18	SIEG	MISC	106- 14	130	27			OP27BJ	PMI	OP AMP	54- 35
21	18			RHY18S1	SIEG	MISC	106- 15	131	27			OP27BT(MA)	RTN	OP AMP	55- 16
22	18			LAS18A05	LAM	VOLT REG	89- 67	132	27			OP27BZ	MPS	OP AMP	54- 36
23	18			LAS18A12	LAM	VOLT REG	81- 31	133	27			OP27BZ	PMI	OP AMP	54- 36
24	18			LAS18A15	LAM	VOLT REG	81- 34	134	27			OP27CDE(MA)	RTN	OP AMP	55- 19
25	18			LAS18U	LAM	VOLT REG	75- 81	135	27			OP27CJ	MPS	OP AMP	54- 57
26	18			AH18	ALP	WIDEBD AMP	60- 99	136	27			OP27CJ	PMI	OP AMP	54- 57
27	18			ZTK18	ITTG	MISC	104- 2	137	27			OP27CT(MA)	RTN	OP AMP	55- 20
28	19			RHY19	SIEG	MISC	106- 16	138	27			OP27CZ	MPS	OP AMP	54- 58
29	19			LAS19U	LAM	VOLT REG	81- 1	139	27			OP27CZ	PMI	OP AMP	54- 58
30	19			AH19	ALP	WIDEBD AMP	60-105	140	27			OP27EDE(A)	RTN	OP AMP	55- 13
31	0020			NH0020-883	NSC	OP AMP	53- 72	141	27			OP27EJ	MPS	OP AMP	54- 10
32	20			SHM20C(A)	DTL	SPECIAL	94-107	142	27			OP27EJ	PMI	OP AMP	54- 10
33	20			SHM20M(A)	DTL	SPECIAL	94-108	143	27			OP27EJ#AI	PMI	OP AMP	42-100
34	20			OP20BJ	PMI	OP AMP	27- 71	144	27			OP27ET(A)	RTN	OP AMP	55- 14
35	20			OP20BZ #mil	PMI	OP AMP	43- 18	145	27			OP27EZ	MPS	OP AMP	53- 97
36	20			OP20CJ	PMI	OP AMP	27- 73	146	27			OP27FJ	PMI	OP AMP	53- 97
37	20			OP20CZ #mil	PMI	OP AMP	43- 46	147	27			OP27FDE(A)	RTN	OP AMP	55- 17
38	20			OP20FJ	PMI	OP AMP	27- 72	148	27			OP27FJ	MPS	OP AMP	54- 31
39	20			OP20FP	PMI	OP AMP	43- 19	149	27			OP27FJ	PMI	OP AMP	54- 31
40	20			OP20FZ	PMI	OP AMP	43- 20	150	27			OP27FJ#AI	PMI	OP AMP	43- 13
41	20			OP20G	PMI	OP AMP	27- 30	151	27			OP27FT(A)	RTN	OP AMP	55- 18
42	20			OP20GJ	PMI	OP AMP	27- 74	152	27			OP27FZ	MPS	OP AMP	54- 32
43	20			OP20GP	PMI	OP AMP	27- 75	153	27			OP27FZ	PMI	OP AMP	54- 32
44	20			OP20GR	PMI	OP AMP	27- 40	154	27			OP27GDE(A)	RTN	OP AMP	55- 21
45	20			OP20GZ	PMI	OP AMP	43- 47	155	27			OP27GJ	PMI	OP AMP	54- 53
46	20			OP20HJ	PMI	OP AMP	27- 78	156	27			OP27GJ	PMI	OP AMP	54- 53
47	20			OP20HP	PMI	OP AMP	27- 79	157	27			OP27GJ#AI	PMI	OP AMP	43- 24
48	20			OP20HZ	PMI	OP AMP	43- 76	158	27			OP27GT(A)	RTN	OP AMP	55- 64
49	20			OP20H	PMI	OP AMP	27- 27	159	27			OP27GZ	MPS	OP AMP	54- 54
50	0021			CTS0021ZB	CMJ	OP AMP	45-102	160	27			OP27GZ	PMI	OP AMP	54- 54
51	0021			LH0021K883	NSC	OP AMP	33- 95	161	27			ZTK27	ITTG	MISC	104- 4
52	21			IC21	SIEG	MISC	106- 37	162	28			AH28	ALP	WIDEBD AMP	61- 14
53	21			OP21AJ(M)	PMI	OP AMP	43- 3	163	29			AH29	ALP	WIDEBD AMP	61- 15
54	21			OP21AJ #mil	PMI	OP AMP	43- 4	164	31			AH31	ALP	WIDEBD AMP	61- 25
55	21			OP21AZ	PMI	OP AMP	43- 5	165	0032			CTS0032ZB	CMJ	OP AMP	45- 69
56	21			OP21BJ(M)	PMI	OP AMP	43- 29	166	0032			HX0032	HAL	OP AMP	40-107
57	21			OP21BJ #mil	PMI	OP AMP	43- 30	167	0032			HX0032C	HAL	OP AMP	48- 78
58	21			OP21BZ	PMI	OP AMP	43- 31	168	0032			LH0032G883	NSC	OP AMP	44- 49
59	21			OP21EJ	PMI	OP AMP	43- 6	169	0032			TP0032A	TPN	OP AMP	44- 48
60	21			OP21EP	PMI	OP AMP	43- 7	170	32			FC32	SIEG	MISC	106- 6
61	21			OP21EZ	PMI	OP AMP	43- 8	171	32			ADVFC32BH	ANA	SPECIAL	94- 57
62	21			OP21FJ	PMI	OP AMP	43- 32	172	32			ADVFC32KH	ANA	SPECIAL	94- 58
63	21			OP21FP	PMI	OP AMP	43- 33	173	32			ADVFC32SH	ANA	SPECIAL	94- 59
64	21			OP21FZ	PMI	OP AMP	43- 34	174	32			ADVFC32SH #mil	ANA	SPECIAL	94- 24
65	21			OP21GJ	PMI	OP AMP	27- 23	175	32			VFC32BM #1	BUB	SPECIAL	93- 43
66	21			OP21GJ	PMI	OP AMP	43- 64	176	32			VFC32BM #2	BUB	SPECIAL	94- 29
67	21			OP21GP	PMI	OP AMP	43- 65	177	32			VFC32KP #1	BUB	SPECIAL	93- 44
68	21			OP21GR	PMI	OP AMP	27- 38	178	32			VFC32KP #2	BUB	SPECIAL	94- 30
69	21			OP21GZ	PMI	OP AMP	43- 66	179	32			VFC32SM #1	BUB	SPECIAL	93- 45
70	21			OP21H	PMI	OP AMP	27- 21	180	32			VFC32SM #2	BUB	SPECIAL	94- 31
71	0022			LH0022CD	NSC	OP AMP	32- 20	181	32			VFC32UM(M)	BUB	SPECIAL	94- 40
72	0022			LH0022CF	NSC	OP AMP	32- 21	182	32			VFC32VM(M)	BUB	SPECIAL	94- 41
73	0022			NH0022E	NSC	OP AMP	28- 72	183	32			VFC32WM(M)	BUB	SPECIAL	94- 42
74	0022			NH0022-883	NSC	OP AMP	53- 78	184	0033			CTS0033ZB	CMJ	SPECIAL	95- 44
75	022			TL022CJG	TII	OP AMP	27-104	185	0033			HX0033	HAL	SPECIAL	90- 28
76	022			TL022CL	TII	OP AMP	27-105	186	0033			HX0033C	HAL	SPECIAL	90- 30
77	022			TL022CP	TII	OP AMP	27-106	187	0033			LH0033CG	NSC	SPECIAL	90- 32
78	022			TL022MJJG	TII	OP AMP	27- 92	188	0033			NH0033	NSC	OP AMP	55- 75
79	022			TL022MP	TII	OP AMP	27-102	189	0033			NH0033-883	NSC	OP AMP	55- 77
80	22			FA22e	SIEG	MISC	106- 4	190	0033			NH0033C	NSC	OP AMP	55- 77
81	22			OP22AJ	PMI	OP AMP	47- 87	191	33			FC33	SIEG	MISC	106- 7
82	22			OP22AZ	PMI	OP AMP	47- 88	192	33			AH33	ALP	WIDEBD AMP	61- 26
83	22			OP22BJ	PMI	OP AMP	47- 89	193	33			ZTK33	ITTG	MISC	104- 5
84	22			OP22BZ	PMI	OP AMP	47- 90	194	34			FC34	SIEG	MISC	106- 8
85	22			OP22EJ	PMI	OP AMP	47- 91	195	35			AH35	ALP	WIDEBD AMP	61- 27
86	22			OP22EZ	PMI	OP AMP	47- 92	196	037			L037T1	SGAI	VOLT REG	72- 88
87	22			OP22FJ	PMI	OP AMP	47- 93	197	37			OFA37AJ(M)	BUB	OP AMP	54- 18
88	22			OP22FZ	PMI	OP AMP	47- 94	198	37			OFA37AZ(M)	BUB	OP AMP	54- 19
89	22			OP22HJ	PMI	OP AMP	47- 95	199	37			OFA37BJ(M)	BUB	OP AMP	54- 42
90	22			OP22HZ	PMI	OP AMP	47- 96	200	37			OFA37BZ(M)	BUB	OP AMP	54- 43
91	23			ZTK23	ITTG	MISC	104- 3	201	37			OFA37CJ(M)	BUB	OP AMP	54- 63
92	23			HFS23	DDC	DIFF AMP	57- 86	202	37			OFA37CZ(M)	BUB	OP AMP	54- 64
93	23			HVA23	DDC	DIFF AMP	57- 87	203	37			OFA37EJ	BUB	OP AMP	54- 20
94	23			HVA23-2	DDC	DIFF AMP	57- 88	204	37			OFA37EJ	BUB	OP AMP	54- 21
95	23			AH23	ALP	WIDEBD AMP	61- 10	205	37			OFA37FJ	BUB	OP AMP	54- 44
96	0024			CTS0024GB(A)	CMJ	OP AMP	45- 90	206	37			OFA37FZ	BUB	OP AMP	54- 45
97	0024			NH0024	NSC	OP AMP	48- 83	207	37			OFA37GJ	BUB	OP AMP	54- 65
98	0024			NH0024-883	NSC	OP AMP	48- 84	208	37			OFA37GZ	BUB	OP AMP	54- 66
99	0024			NH0024C	NSC	OP AMP	48- 85	209	37			AH37	ALP	WIDEBD AMP	61- 28
100	24			FA24	SIEG	MISC	106- 5	210	37			OP37ADE(M)	RTN	OP AMP	53-

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1	37		OP37BT(M)		RTN	OP AMP	53- 99	111	062		ZNREF062B1		FERB	SPECIAL	95- 90
2	37		OP37BZ		MPS	OP AMP	54- 38	112	062		ZNREF062B2		FERB	SPECIAL	95- 91
3	37		OP37BZ		PMI	OP AMP	54- 38	113	062		ZNREF062B3		FERB	SPECIAL	95- 92
4	37		OP37BZ#mil		PMI	OP AMP	43- 15	114	062		ZNREF062C1		FERB	SPECIAL	95- 93
5	37		OP37CDE(M)		RTN	OP AMP	53-103	115	062		ZNREF062C2		FERB	SPECIAL	95- 94
6	37		OP37CJ		MPS	OP AMP	54- 59	116	062		ZNREF062C3		FERB	SPECIAL	95- 95
7	37		OP37CJ		PMI	OP AMP	54- 59	117	062		CJSE062		SODI	VOLT REG	79- 56
8	37		OP37CJ#mil		PMI	OP AMP	43- 26	118	62		VFC62BG		BUB	SPECIAL	94- 43
9	37		OP37CT(M)		RTN	OP AMP	53-104	119	62		VFC62BM		BUB	SPECIAL	94- 44
10	37		OP37CZ		MPS	OP AMP	54- 60	120	62		VFC62CG		BUB	SPECIAL	94- 45
11	37		OP37CZ		PMI	OP AMP	54- 60	121	62		VFC62CM		BUB	SPECIAL	94- 46
12	37		OP37EDE		RTN	OP AMP	53- 95	122	62		VFC62SM		BUB	SPECIAL	94- 47
13	37		OP37EJ		MPS	OP AMP	42-101	123	063		CJSE063		SODI	VOLT REG	78- 63
14	37		OP37EJ		PMI	OP AMP	42-101	124	63		AH63		ALP	WIDEBD AMP	60-106
15	37		OP37ET		RTN	OP AMP	53- 96	125	064		TL064ACJ		THI	OP AMP	28- 84
16	37		OP37EZ		MPS	OP AMP	42-102	126	064		TL064ACN		THI	OP AMP	28- 85
17	37		OP37EZ		PMI	OP AMP	42-102	127	064		TL064AMJ		THI	OP AMP	28- 82
18	37		OP37FDE		RTN	OP AMP	53-100	128	064		TL064BCJ		THI	OP AMP	28- 82
19	37		OP37FJ		MPS	OP AMP	54- 33	129	064		TL064BCN		THI	OP AMP	28- 83
20	37		OP37FJ		PMI	OP AMP	54- 33	130	064		TL064CJ		THI	OP AMP	28- 86
21	37		OP37FT		RTN	OP AMP	53-101	131	064		TL064CN		THI	OP AMP	28- 87
22	37		OP37FZ		MPS	OP AMP	54- 34	132	064		TL064IJ		THI	OP AMP	28- 63
23	37		OP37FZ		PMI	OP AMP	54- 34	133	064		TL064IN		THI	OP AMP	28- 64
24	37		OP37GDE		RTN	OP AMP	53-105	134	064		TL064MJ		THI	OP AMP	28- 65
25	37		OP37GJ		MPS	OP AMP	54- 55	135	064		TL064MW		THI	OP AMP	24-100
26	37		OP37GJ		PMI	OP AMP	54- 55	136	064		CJSE064		SODI	VOLT REG	78- 64
27	37		OP37GT		RTN	OP AMP	53-106	137	64		AH64		ALP	WIDEBD AMP	61- 9
28	37		OP37GZ		MPS	OP AMP	54- 56	138	065		CJSE065		SODI	VOLT REG	72- 78
29	37		OP37GZ		PMI	OP AMP	54- 56	139	65		AH65		ALP	WIDEBD AMP	60-107
30	39		LA539U		LAM	VOLT REG	75- 67	140	066		TL066ACJG		THI	OP AMP	28- 1
31	39		AH39		ALP	WIDEBD AMP	61- 29	141	066		TL066ACP		THI	OP AMP	28- 2
32	040		UTF040		AVA	MISC	103-103	142	066		TL066AMJG		THI	OP AMP	27- 96
33	0041		CT50041ZB		CMJ	OP AMP	45-101	143	066		TL066BCJG		THI	OP AMP	27-107
34	0041		LH0041G883		NSC	OP AMP	33- 82	144	066		TL066BCP		THI	OP AMP	27-108
35	41		UAF41		BUB	MISC	104- 87	145	066		TL066CJG		THI	OP AMP	28- 5
36	0042		LH0042		INL	OP AMP	42- 98	146	066		TL066CP		THI	OP AMP	28- 6
37	0042		LH0042C		INL	OP AMP	42- 99	147	066		TL066IJG		THI	OP AMP	24- 98
38	0042		LH0042D883		NSC	OP AMP	33- 93	148	066		TL066IP		THI	OP AMP	24-102
39	0042		LH0042H883		NSC	OP AMP	33- 94	149	066		TL066MJG		THI	OP AMP	27- 98
40	044		TL044CJ		THI	OP AMP	28- 23	150	066		CJSE066		SODI	VOLT REG	72- 79
41	044		TL044CN		THI	OP AMP	28- 24	151	067		CJSE067		SODI	VOLT REG	69- 97
42	044		TL044MJ		THI	OP AMP	28- 17	152	068		TL068CLP		THI	OP AMP	46- 47
43	045		LS045T		SGAI	OP AMP	25- 30	153	068		TL068ILP		THI	OP AMP	48- 65
44	0052		LH0052H883		NSC	OP AMP	29- 50	154	068		CJSE068		SODI	VOLT REG	69- 98
45	052		CJSE052		SODI	VOLT REG	62- 1	155	069		CJSE069		SODI	VOLT REG	66- 83
46	053		CJSE053		SODI	VOLT REG	62- 2	156	070		TL070ACJG		THI	OP AMP	23- 29
47	53		AH53		ALP	WIDEBD AMP	60- 81	157	070		TL070ACP		THI	OP AMP	23- 30
48	54		SN54LS624J		THI	SPECIAL	93- 48	158	070		TL070CJG		THI	OP AMP	23- 37
49	54		SN54LS624W		THI	SPECIAL	93- 49	159	070		TL070CP		THI	OP AMP	23- 38
50	54		SN54LS625J		THI	SPECIAL	93- 50	160	070		TL070IJG		THI	OP AMP	23- 34
51	54		SN54LS625W		THI	SPECIAL	93- 51	161	070		TL070IP		THI	OP AMP	23- 35
52	54		SN54LS626J		THI	SPECIAL	93- 52	162	070		TL070MJG		THI	OP AMP	23- 36
53	54		SN54LS626W		THI	SPECIAL	93- 53	163	070		CJSE070		SODI	VOLT REG	66- 84
54	54		SN54LS627J		THI	SPECIAL	93- 54	164	071		TL071ACJG		THI	OP AMP	29- 80
55	54		SN54LS627W		THI	SPECIAL	93- 55	165	071		TL071ACJG%		MOTA	OP AMP	24- 70
56	54		SN54LS628J		THI	SPECIAL	93- 56	166	071		TL071ACP		THI	OP AMP	29- 81
57	54		SN54LS628W		THI	SPECIAL	93- 57	167	071		TL071ACP%		MOTA	OP AMP	24- 71
58	54		SN54LS629J		THI	SPECIAL	93- 58	168	071		TL071AMJG		THI	OP AMP	29- 73
59	54		SN54LS629W		THI	SPECIAL	93- 59	169	071		TL071BCJG		THI	OP AMP	29- 74
60	54		AH54		ALP	WIDEBD AMP	60- 67	170	071		TL071BCJG%		MOTA	OP AMP	24- 58
61	55		uPC55A		NECE	OP AMP	36- 31	171	071		TL071BCP		THI	OP AMP	29- 75
62	55		uPC55A		NECJ	OP AMP	36- 31	172	071		TL071BCP%		MOTA	OP AMP	24- 59
63	55		uPC55D		NECE	OP AMP	47- 6	173	071		TL071CJG		THI	OP AMP	29- 85
64	55		uPC55D		NECJ	OP AMP	47- 6	174	071		TL071CJG%		MOTA	OP AMP	24- 85
65	55		AH55		ALP	WIDEBD AMP	60- 82	175	071		TL071CP		THI	OP AMP	29- 86
66	56		AH56		ALP	WIDEBD AMP	60- 68	176	071		TL071CP%		MOTA	OP AMP	24- 86
67	057		CJSE057		SODI	VOLT REG	62- 3	177	071		TL071IJG		THI	OP AMP	29- 82
68	57		AH57-1		ALP	WIDEBD AMP	61- 72	178	071		TL071IP		THI	OP AMP	29- 83
69	058		CJSE058		SODI	VOLT REG	62- 4	179	071		TL071MJG		THI	OP AMP	29- 84
70	58		AH58		ALP	WIDEBD AMP	60- 83	180	071		TL071MJG%		MOTA	OP AMP	24- 82
71	059		CJSE059		SODI	VOLT REG	62- 5	181	071		CJSE071		SODI	VOLT REG	63- 39
72	59		AH59-1		ALP	WIDEBD AMP	60- 98	182	71		uPC71A		NECJ	VOLT COMP	84- 10
73	59		AH59#		ALP	WIDEBD AMP	60- 84	183	072		TL072ACJG		THI	OP AMP	36- 13
74	060		TL060ACJG		THI	OP AMP	24-108	184	072		TL072ACJG%		MOTA	OP AMP	24- 72
75	060		TL060ACP		THI	OP AMP	23- 27	185	072		TL072ACP		THI	OP AMP	36- 14
76	060		TL060AGJG		THI	OP AMP	23- 28	186	072		TL072ACP%		MOTA	OP AMP	24- 73
77	060		TL060CJG		THI	OP AMP	23- 39	187	072		TL072AMJG		THI	OP AMP	36- 7
78	060		TL060CP		THI	OP AMP	23- 40	188	072		TL072BCJG		THI	OP AMP	36- 8
79	060		TL060IJG		THI	OP AMP	23- 31	189	072		TL072BCJG%		MOTA	OP AMP	24- 60
80	060		TL060IP		THI	OP AMP	23- 32	190	072		TL072BCP		THI	OP AMP	36- 9
81	060		TL060MJG		THI	OP AMP	23- 33	191	072		TL072BCP%		MOTA	OP AMP	24- 61
82	061		TL061ACJG		THI	OP AMP	28- 3	192	072		TL072CJG		THI	OP AMP	36- 19
83	061		TL061ACP		THI	OP AMP	28- 4	193	072		TL072CJG%		MOTA	OP AMP	24- 87
84	061		TL061AMJG		THI	OP AMP	27- 97	194	072		TL072CP		THI	OP AMP	36- 20
85	061		TL061BCJG		THI	OP AMP	27-109	195	072		TL072CP%		MOTA	OP AMP	24- 88
86	061		TL061BCP		THI	OP AMP	27-110	196	072		TL072IJG		THI	OP AMP	36- 15
87	061		TL061CJG		THI	OP AMP	28- 7	197	072		TL072IP		THI	OP AMP	36- 16
88	061		TL061CP		THI	OP AMP	28- 8	198	072		TL072MJG		THI	OP AMP	36- 17
89	061		TL061IJG		THI	OP AMP	27- 99	199	072		TL072MJG%		MOTA	OP AMP	24- 83
90	061		TL061IP		THI	OP AMP	27-100	200	072		TL072ML		THI	OP AMP	36- 18
91	061		TL061MJG		THI	OP AMP	27-101	201	072		CJSE072		SODI	VOLT REG	63- 40
92	061		TL061MU		THI	OP AMP	24- 54	202	73		PA73		AMT	OP AMP	55-105
93	061		CJSE061		SODI	VOLT REG	79- 55	203	074		TL074ACJ		THI	OP AMP	41- 65
94	0062		LH0062D883		NSC	OP AMP	35-107	204	074		TL074ACJG		MOTA	OP AMP	24- 74
95	0062		LH0062H883		NSC	OP AMP	35-108	205	074		TL074ACN		THI	OP AMP	41- 66
96	0062		LH0062H		NSC	OP AMP	40- 78	206	074		TL074ACN%		MOTA	OP AMP	24- 75
97	062		TL062ACJG		THI	OP AMP	28- 27	207	074		TL074AMJ		THI	OP AMP	41- 60
98	062		TL062ACP		THI	OP AMP	28- 28	208	074		TL074BCJ		THI	OP AMP	41- 61
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2	74		SN74LS321		TI	SPECIAL	97- 14	112	78		78MHV06CDB		MULB	VOLT REG	67- 77
3	74		SN74LS624J		TI	SPECIAL	93- 60	113	78		78MHV06CDB		VALG	VOLT REG	67- 77
4	74		SN74LS624N		TI	SPECIAL	93- 61	114	78		78MHV06CU		MULB	VOLT REG	67- 79
5	74		SN74LS625J		TI	SPECIAL	93- 62	115	78		78MHV06CU		VALG	VOLT REG	67- 79
6	74		SN74LS625N		TI	SPECIAL	93- 63	116	78		78MHV06DB		MULB	VOLT REG	67- 80
7	74		SN74LS626J		TI	SPECIAL	93- 64	117	78		78MHV06DB		VALG	VOLT REG	67- 80
8	74		SN74LS626N		TI	SPECIAL	93- 65	118	78		78MHV08CDB		MULB	VOLT REG	69- 34
9	74		SN74LS627J		TI	SPECIAL	93- 66	119	78		78MHV08CDB		VALG	VOLT REG	69- 34
10	74		SN74LS627N		TI	SPECIAL	93- 67	120	78		78MHV08CU		MULB	VOLT REG	69- 36
11	74		SN74LS628J		TI	SPECIAL	93- 68	121	78		78MHV08CU		VALG	VOLT REG	69- 36
12	74		SN74LS628N		TI	SPECIAL	93- 69	122	78		78MHV08DB		MULB	VOLT REG	69- 37
13	74		SN74LS629J		TI	SPECIAL	93- 70	123	78		78MHV08DB		VALG	VOLT REG	69- 37
14	74		SN74LS629N		TI	SPECIAL	93- 71	124	78		78MHV12CDB		MULB	VOLT REG	72- 38
15	74		SN74LS724J		MOTA	SPECIAL	93- 72	125	78		78MHV12CDB		VALG	VOLT REG	72- 38
16	74		SN74LS724N		MOTA	SPECIAL	93- 73	126	78		78MHV12CU		MULB	VOLT REG	72- 40
17	74		AH74		ALP	WIDEBD AMP	60- 85	127	78		78MHV12CU		VALG	VOLT REG	72- 40
18	74		AH74-1		ALP	WIDEBD AMP	60- 61	128	78		78MHV12DB		MULB	VOLT REG	72- 41
19	075		TL075ACJ		TI	OP AMP	41- 67	129	78		78MHV12DB		VALG	VOLT REG	72- 41
20	075		TL075ACN		TI	OP AMP	41- 68	130	78		78MHV15CDB		MULB	VOLT REG	75- 46
21	075		TL075BCJ		TI	OP AMP	41- 63	131	78		78MHV15CDB		VALG	VOLT REG	75- 46
22	075		TL075BCN		TI	OP AMP	41- 64	132	78		78MHV15CU		MULB	VOLT REG	75- 48
23	075		TL075CJ		TI	OP AMP	41- 78	133	78		78MHV15CU		VALG	VOLT REG	75- 48
24	075		TL075CN		TI	OP AMP	41- 79	134	78		78MHV15DB		MULB	VOLT REG	75- 49
25	075		TL075J		TI	OP AMP	41- 72	135	78		78MHV15DB		VALG	VOLT REG	75- 49
26	075		TL075IN		TI	OP AMP	41- 73	136	78		78MHV18CU		MULB	VOLT REG	77- 28
27	075		TL075MJ		TI	OP AMP	41- 74	137	78		78MHV18CU		VALG	VOLT REG	77- 28
28	75		AH75		ALP	WIDEBD AMP	60- 86	138	78		78MHV20CDB		MULB	VOLT REG	79- 29
29	75		AH75-2		ALP	WIDEBD AMP	60- 62	139	78		78MHV20CDB		VALG	VOLT REG	79- 29
30	76		AH76		ALP	WIDEBD AMP	60- 87	140	78		78MHV20DB		MULB	VOLT REG	79- 31
31	77		AH77		ALP	WIDEBD AMP	60- 88	141	78		78MHV20DB		PHIN	VOLT REG	79- 31
32	77		AH77-1		ALP	WIDEBD AMP	60- 97	142	78		78MHV20DB		VALG	VOLT REG	79- 31
33	78		78H05KC		FSC	VOLT REG	64- 35	143	78		78MHV24CDB		MULB	VOLT REG	80- 84
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35	78		78HV05CDA		PHIN	VOLT REG	66- 22	145	78		78MHV24CDB		VALG	VOLT REG	80- 84
36	78		78HV05CDA		VALG	VOLT REG	66- 22	146	78		78MHV24CU		MULB	VOLT REG	80- 86
37	78		78HV05CU		MULB	VOLT REG	66- 23	147	78		78MHV24CU		VALG	VOLT REG	80- 86
38	78		78HV05CU		PHIN	VOLT REG	66- 23	148	78		78MHV24DB		MULB	VOLT REG	80- 87
39	78		78HV05CU		VALG	VOLT REG	66- 23	149	78		78MHV24DB		PHIN	VOLT REG	80- 87
40	78		78HV05DA		MULB	VOLT REG	66- 24	150	78		78MHV24DB		VALG	VOLT REG	80- 87
41	78		78HV05DA		PHIN	VOLT REG	66- 24	151	78		ML78P05		MEHK	VOLT REG	66- 82
42	78		78HV05DA		VALG	VOLT REG	66- 24	152	78		ML78P05A		MEHK	VOLT REG	66- 71
43	78		78HV06CDA		MULB	VOLT REG	67- 82	153	78		ML78P12		MEHK	VOLT REG	71- 57
44	78		78HV06CDA		PHIN	VOLT REG	67- 82	154	78		ML78P12A		MEHK	VOLT REG	71- 58
45	78		78HV06CDA		VALG	VOLT REG	67- 82	155	78		ML78P15		MEHK	VOLT REG	74- 22
46	78		78HV06CU		MULB	VOLT REG	67- 83	156	78		ML78P15A		MEHK	VOLT REG	74- 23
47	78		78HV06CU		PHIN	VOLT REG	67- 83	157	78		ML78P18		MEHK	VOLT REG	76- 62
48	78		78HV06CU		VALG	VOLT REG	67- 83	158	78		ML78P18A		MEHK	VOLT REG	76- 63
49	78		78HV06DA		MULB	VOLT REG	67- 84	159	78		SA78HV05CDA		MULB	VOLT REG	66- 25
50	78		78HV06DA		PHIN	VOLT REG	67- 84	160	78		SA78HV05CDA		VALG	VOLT REG	66- 25
51	78		78HV06DA		VALG	VOLT REG	67- 84	161	78		SA78HV05CU		MULB	VOLT REG	66- 26
52	78		78HV08CDA		MULB	VOLT REG	69- 39	162	78		SA78HV05CU		VALG	VOLT REG	66- 26
53	78		78HV08CDA		PHIN	VOLT REG	69- 39	163	78		SA78HV06CDA		MULB	VOLT REG	67- 85
54	78		78HV08CDA		VALG	VOLT REG	69- 39	164	78		SA78HV06CDA		VALG	VOLT REG	67- 85
55	78		78HV08CU		MULB	VOLT REG	69- 40	165	78		SA78HV06CU		MULB	VOLT REG	67- 86
56	78		78HV08CU		PHIN	VOLT REG	69- 40	166	78		SA78HV06CU		VALG	VOLT REG	67- 86
57	78		78HV08CU		VALG	VOLT REG	69- 40	167	78		SA78HV08CDA		MULB	VOLT REG	69- 42
58	78		78HV08DA		MULB	VOLT REG	69- 41	168	78		SA78HV08CDA		VALG	VOLT REG	69- 42
59	78		78HV08DA		PHIN	VOLT REG	69- 41	169	78		SA78HV08CU		MULB	VOLT REG	69- 43
60	78		78HV08DA		VALG	VOLT REG	69- 41	170	78		SA78HV08CU		VALG	VOLT REG	69- 43
61	78		78HV12CDA		MULB	VOLT REG	72- 43	171	78		SA78HV12CDA		MULB	VOLT REG	72- 46
62	78		78HV12CDA		PHIN	VOLT REG	72- 43	172	78		SA78HV12CDA		VALG	VOLT REG	72- 46
63	78		78HV12CDA		VALG	VOLT REG	72- 43	173	78		SA78HV12CU		MULB	VOLT REG	72- 47
64	78		78HV12CU		MULB	VOLT REG	72- 44	174	78		SA78HV12CU		VALG	VOLT REG	72- 47
65	78		78HV12CU		PHIN	VOLT REG	72- 44	175	78		SA78HV14CDA		MULB	VOLT REG	72- 76
66	78		78HV12CU		VALG	VOLT REG	72- 44	176	78		SA78HV14CDA		VALG	VOLT REG	72- 76
67	78		78HV12DA		MULB	VOLT REG	72- 45	177	78		SA78HV14CU		MULB	VOLT REG	72- 77
68	78		78HV12DA		PHIN	VOLT REG	72- 45	178	78		SA78HV15CDA		MULB	VOLT REG	75- 54
69	78		78HV12DA		VALG	VOLT REG	72- 45	179	78		SA78HV15CDA		VALG	VOLT REG	75- 54
70	78		78HV14CDA		MULB	VOLT REG	72- 73	180	78		SA78HV15CU		MULB	VOLT REG	75- 55
71	78		78HV14CDA		PHIN	VOLT REG	72- 73	181	78		SA78HV15CU		VALG	VOLT REG	75- 55
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73	78		78HV14CU		MULB	VOLT REG	72- 74	183	78		SA78HV18CDA		VALG	VOLT REG	77- 33
74	78		78HV14CU		PHIN	VOLT REG	72- 74	184	78		SA78HV18CU		MULB	VOLT REG	77- 34
75	78		78HV14CU		VALG	VOLT REG	72- 74	185	78		SA78HV18CU		VALG	VOLT REG	77- 34
76	78		78HV14DA		MULB	VOLT REG	72- 75	186	78		SA78HV24CDA		MULB	VOLT REG	80- 92
77	78		78HV14DA		PHIN	VOLT REG	72- 75	187	78		SA78HV24CDA		VALG	VOLT REG	80- 92
78	78		78HV14DA		VALG	VOLT REG	72- 75	188	78		SA78HV24CU		MULB	VOLT REG	80- 93
79	78		78HV15CDA		MULB	VOLT REG	75- 51	189	78		SA78HV24CU		VALG	VOLT REG	80- 93
80	78		78HV15CDA		PHIN	VOLT REG	75- 51	190	78		SA78MHV05CDB		MULB	VOLT REG	66- 18
81	78		78HV15CDA		VALG	VOLT REG	75- 51	191	78		SA78MHV05CDB		VALG	VOLT REG	66- 18
82	78		78HV15CU		MULB	VOLT REG	75- 52	192	78		SA78MHV05CU		MULB	VOLT REG	66- 21
83	78		78HV15CU		PHIN	VOLT REG	75- 52	193	78		SA78MHV05CU		VALG	VOLT REG	66- 21
84	78		78HV15CU		VALG	VOLT REG	75- 52	194	78		SA78MHV06CDB		MULB	VOLT REG	67- 78
85	78		78HV15DA		MULB	VOLT REG	75- 53	195	78		SA78MHV06CDB		PHIN	VOLT REG	67- 78
86	78		78HV15DA		PHIN	VOLT REG	75- 53	196	78		SA78MHV06CDB		VALG	VOLT REG	67- 78
87	78		78HV15DA		VALG	VOLT REG	75- 53	197	78		SA78MHV06CU		MULB	VOLT REG	67- 81
88	78		78HV18CDA		MULB	VOLT REG	77- 30	198	78		SA78MHV06CU		VALG	VOLT REG	67- 81
89	78		78HV18CDA		PHIN	VOLT REG	77- 30	199	78		SA78MHV08CDB		MULB	VOLT REG	69- 35
90	78		78HV18CDA		VALG	VOLT REG	77- 30	200	78		SA78MHV08CDB		VALG	VOLT REG	69- 35
91	78		78HV18CU		MULB	VOLT REG	77- 31	201	78		SA78MHV08CU		MULB	VOLT REG	69- 38
92	78		78HV18CU		PHIN	VOLT REG	77- 31	202	78		SA78MHV08CU		PHIN	VOLT REG	69- 38
93	78		78HV18CU		VALG	VOLT REG	77- 31	203	78		SA78MHV08CU		VALG	VOLT REG	69- 38
94	78		78HV18DA		MULB	VOLT REG	77- 32	204	78		SA78MHV12CDB		MULB	VOLT REG	72- 39
95	78		78HV18DA		PHIN	VOLT REG	77- 32	205	78		SA78MHV12CDB		PHIN	VOLT REG	72- 39
96	78		78HV18DA		VALG	VOLT REG	77- 32	206	78		SA78MHV12CDB		VALG	VOLT REG	72- 39
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3	78	SA78MHV24CDB	PHIN	VOLT REG	80- 85	113	78L05	UA78L05CJG	TII	VOLT REG	63- 55
4	78	SA78MHV24CDB	VALG	VOLT REG	80- 85	114	78L05	UA78L05DB	MULB	VOLT REG	64- 66
5	78	SA78MHV24CU	MULB	VOLT REG	80- 88	115	78L05	UA78L05HC	FSC	VOLT REG	65- 18
6	78	SA78MHV24CU	PHIN	VOLT REG	80- 88	116	78L05	UA78L05HM	FSC	VOLT REG	65- 19
7	78	SA78MHV24CU	VALG	VOLT REG	80- 88	117	78L05	UA78L05S	MULB	VOLT REG	64- 58
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10	78	L78N06	TSAJ	VOLT REG	66- 87	120	78L06	78L06ACS	MULB	VOLT REG	67- 89
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36	79M05	UA79M05CKD	TII	VOLT REG	64- 3	146	081	TL081CJG%	MOTA	OP AMP	24- 93
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60	79M08	UA79M08CKD	TII	VOLT REG	68- 52	170	082	TL082BCJG%	MOTA	OP AMP	24- 66
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68	79M12	79M12CU	VALG	VOLT REG	70- 79	178	082	CA082AE	RCA	OP AMP	44- 65
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72	79M12	LM79M12ACP	NSC	VOLT REG	70- 93	182	082	CA082CS	RCA	OP AMP	45- 19
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86	79M15	79M15CDB	VALG	VOLT REG	73- 50	196	083	CA083AE	RCA	OP AMP	44- 66
87	79M15	79M15CU	MULB	VOLT REG	73- 51	197	083	CA083BE	RCA	OP AMP	44- 54
88	79M15	79M15CU	VALG	VOLT REG	73- 51	198	083	CA083E	RCA	OP AMP	44- 80
89	79M15	79M15DB	MULB	VOLT REG	73- 52	199	083	XR083DN	EXR	OP AMP	45- 33
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106	79M18	79M18CU	MULB	VOLT REG	76- 98	216	084	TL084CJ	MOTA	OP AMP	42- 72
107	79M18	79M18CU	VALG	VOLT REG	76- 98	217	084	TL084CJ	TII	OP AMP	42- 72
108	79M18	79M18DB	MULB	VOLT REG	76- 99	218	084	TL084CN	MOTA	OP AMP	24- 97
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14	087	TL087CJG	TII	OP AMP	30-21	124	101	LM101N-14	VALG	OP AMP	51-16
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51	100	MPY100CG	BUB	SPECIAL	90-90	161	103	LM103H3.3	NSC	MISC	103-53
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53	100	MPY100SG	BUB	SPECIAL	90-92	163	103	LM103H3.9	NSC	MISC	103-55
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76	101	INA101BM	BUB	SPECIAL	94-66	186	105	TCA105GG	SIEG	MISC	98-24
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89		215		OP215GR(A)	PMI	OP AMP	27- 48	199		221		OP221AJ/883(M)	PMI	OP AMP	24- 24
90		215		OP215GY	PMI	OP AMP	22- 88	200		221		OP221AZ	PMI	OP AMP	24- 25
91		215		OP215GZ	PMI	OP AMP	22- 89	201		221		OP221AZ/883(M)	PMI	OP AMP	24- 26
92		215		OP215N(A)	PMI	OP AMP	27- 39	202		221		OP221BJ	PMI	OP AMP	24- 29
93		216		LM216AH	NSC	OP AMP	49- 26	203		221		OP221BJ/883(M)	PMI	OP AMP	24- 30
94		216		LM216H	NSC	OP AMP	50- 5	204		221		OP221BZ	PMI	OP AMP	24- 31
95		216		AML216D	AMD	OP AMP	50- 4	205		221		OP221BZ/883(M)	PMI	OP AMP	24- 32
96		217		LM217H	MOTA	VOLT REG	77- 49	206		221		OP221CJ	PMI	OP AMP	24- 37
97		217		LM217H	NSC	VOLT REG	77- 49	207		221		OP221CJ/883(M)	PMI	OP AMP	24- 38
98		217		LM217HVH	NSC	VOLT REG	62- 11	208		221		OP221CZ	PMI	OP AMP	24- 39

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2		223		SG223K	SGL	VOLT REG	63- 62	112		246		LM246N	NSC	OP AMP	29- 41
3		224		LM224AFZ	MULB	OP AMP	20- 90	113		248		LM248J	NSC	OP AMP	35- 32
4		224		LM224AFZ	PHIN	OP AMP	20- 90	114		248		LM248J	RTN	OP AMP	35- 32
5		224		LM224AFZ	VALG	OP AMP	20- 90	115		248		LM248N	RTN	OP AMP	28- 22
6		224		LM224AJ	NSC	OP AMP	21- 18	116		248		uA248DC	FSC	OP AMP	35- 38
7		224		LM224AN	MULB	OP AMP	20- 91	117		248		uA248PC	FSC	OP AMP	46- 57
8		224		LM224AN	PHIN	OP AMP	20- 91	118		249		LM249J	NSC	OP AMP	35- 33
9		224		LM224AN	VALG	OP AMP	20- 91	119		249		LM249J	RTN	OP AMP	35- 33
10		224		LM224F	PHIN	OP AMP	21- 19	120		250		LM250K	MOTA	VOLT REG	75- 85
11		224		LM224F	RTCF	OP AMP	21- 19	121		250		LM250K	NSC	VOLT REG	75- 85
12		224		LM224FZ	MULB	OP AMP	20- 48	122		250		SAS250	SIEG	MISC	106- 21
13		224		LM224FZ	SIC	OP AMP	20- 48	123		250		uPC250A	NECJ	OP AMP	28- 89
14		224		LM224FZ	VALG	OP AMP	20- 48	124		250		UC250K	UNI	VOLT REG	62- 80
15		224		LM224J	MOTA	OP AMP	21- 3	125		250		UTO250	AVA	WIDEBD AMP	59- 19
16		224		LM224J	RTN	OP AMP	21- 3	126		250		SG250AK	SGL	VOLT REG	62- 21
17		224		LM224J	TII	OP AMP	21- 3	127		250		SG250K	SGL	VOLT REG	62- 57
18		224		LM224JZ	NSC	OP AMP	21- 20	128		251		GPD251	AVA	WIDEBD AMP	59- 9
19		224		LM224N	MOTA	OP AMP	21- 4	129		251		SAS251	SIEG	MISC	106- 22
20		224		LM224N	PHIN	OP AMP	21- 4	130		251		SAS251S4	SIEG	MISC	106- 23
21		224		LM224N	RTCF	OP AMP	21- 4	131		251		SAS251S5	SIEG	MISC	106- 24
22		224		LM224N	RTN	OP AMP	21- 4	132		251		uPC251A	NECJ	OP AMP	37- 95
23		224		LM224N	TII	OP AMP	21- 4	133		251		uPC251C	NECE	OP AMP	37- 96
24		224		LM224N	MULB	OP AMP	20- 49	134		251		uPC251C	NECJ	OP AMP	37- 96
25		224		LM224N	SIC	OP AMP	20- 49	135		251		uPC251D	NECE	OP AMP	37- 97
26		224		LM224N	VALG	OP AMP	20- 49	136		251		uPC251D	NECJ	OP AMP	37- 97
27		224		CA224E	RCA	OP AMP	21- 9	137		251		uPC251G	NECE	OP AMP	47- 47
28		224		SG224J	SGL	OP AMP	20-106	138		251		uPC251G	NECJ	OP AMP	47- 47
29		224		SG224N	SGL	OP AMP	20-107	139		252		GPD252	AVA	WIDEBD AMP	59- 10
30		224		uA224DM	FSC	OP AMP	21- 40	140		253		uPC253A	NECE	OP AMP	27- 77
31		224		uA224DV	FSC	OP AMP	55-100	141		253		uPC253A	NECJ	OP AMP	27- 77
32		224		uA224PV	FSC	OP AMP	55-101	142		253		uPC253D	NECE	OP AMP	47- 98
33		225		U225B	ALGG	MISC	103- 99	143		253		uPC253D	NECJ	OP AMP	47- 98
34		227		OP227AY(M)	PMI	OP AMP	54- 23	144		253		SG253K	SGL	VOLT REG	81- 13
35		227		OP227BY(M)	PMI	OP AMP	54- 47	145		254		uPC254A	NECE	OP AMP	35-102
36		227		OP227EY	PMI	OP AMP	54- 24	146		254		uPC254A	NECJ	OP AMP	35-102
37		227		OP227FY	PMI	OP AMP	54- 48	147		254		uPC254D	NECE	OP AMP	54- 71
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40		227		ESM227N	THEF	MISC	105- 61	150		255		PM255Z	PMI	OP AMP	54-106
41		230		SV230S	SIEG	MISC	106- 36	151		255		LF255H	AMD	OP AMP	34- 97
42		230		TCA230	MULB	OP AMP	23- 68	152		255		LF255H	NSC	OP AMP	34- 97
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44		231		LM231AH	NSC	SPECIAL	93- 92	154		255		LF255T	PHIN	OP AMP	34- 96
45		231		LM231AN	NSC	SPECIAL	93- 88	155		255		LF255T	VALG	OP AMP	34- 96
46		231		LM231H	NSC	SPECIAL	93- 93	156		256		PM256J	PMI	OP AMP	39- 90
47		231		LM231N	NSC	SPECIAL	93- 89	157		256		PM256Z	PMI	OP AMP	54-107
48		231		SAS231L	SIEG	MISC	106- 17	158		256		LF256H	AMD	OP AMP	39- 82
49		231		SAS231W	SIEG	MISC	106- 18	159		256		LF256H	NSC	OP AMP	39- 82
50		234		LM234H	NSC	MISC	98- 87	160		256		LF256T	MULB	OP AMP	39- 75
51		234		LM234H-3	NSC	MISC	98- 88	161		256		LF256T	PHIN	OP AMP	39- 75
52		234		LM234H-6	NSC	MISC	98- 89	162		256		LF256T	VALG	OP AMP	39- 75
53		234		LM234Z3	NSC	MISC	98- 90	163		257		PM257J	PMI	OP AMP	39- 91
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56		235		LM235H	NSC	MISC	98- 4	166		257		LF257T	MULB	OP AMP	39- 76
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58		236		LM236H	NSC	MISC	102- 51	168		257		LF257T	VALG	OP AMP	39- 76
59		237		LM237H	NSC	VOLT REG	78- 45	169		258		LM258AH	NSC	OP AMP	20- 83
60		237		LM237HVH	NSC	VOLT REG	80- 79	170		258		LM258AN	MULB	OP AMP	20- 84
61		237		LM237HVK	NSC	VOLT REG	80- 82	171		258		LM258AN	PHIN	OP AMP	20- 84
62		237		LM237K	NSC	VOLT REG	78- 50	172		258		LM258AN	VALG	OP AMP	20- 84
63		237		UC237K	UNI	VOLT REG	62- 98	173		258		LM258AT	MULB	OP AMP	20- 85
64		237		UC237T	UNI	VOLT REG	62- 99	174		258		LM258AT	PHIN	OP AMP	20- 85
65		237		SG237K	SGL	VOLT REG	62- 56	175		258		LM258AT	VALG	OP AMP	20- 85
66		237		SG237P	SGL	VOLT REG	62- 44	176		258		LM258FE	PHIN	OP AMP	23- 75
67		237		SG237R	SGL	VOLT REG	62- 52	177		258		LM258FE	RTCF	OP AMP	23- 75
68		237		SG237T	SGL	VOLT REG	62- 40	178		258		LM258FE	SIC	OP AMP	23- 75
69		238		LM238K	NSC	VOLT REG	62- 13	179		258		LM258H	NSC	OP AMP	20- 57
70		239		LM239A	MULB	VOLT COMP	82- 94	180		258		LM258H	PHIN	OP AMP	20- 57
71		239		LM239A	PHIN	VOLT COMP	82- 94	181		258		LM258H	RTCF	OP AMP	20- 57
72		239		LM239AA	MULB	VOLT COMP	83- 88	182		258		LM258H	SIC	OP AMP	20- 57
73		239		LM239AA	PHIN	VOLT COMP	83- 88	183		258		LM258H	MOTA	OP AMP	20- 50
74		239		LM239AF	MULB	VOLT COMP	82- 57	184		258		LM258J	MOTA	OP AMP	20- 51
75		239		LM239AF	PHIN	VOLT COMP	82- 57	185		258		LM258JG	TII	OP AMP	20- 64
76		239		LM239AF	VALG	VOLT COMP	82- 57	186		258		LM258N	MOTA	OP AMP	20- 52
77		239		LM239AJ	MOTA	VOLT COMP	82- 58	187		258		LM258N	RTCF	OP AMP	20- 52
78		239		LM239AJ	NSC	VOLT COMP	82- 58	188		258		LM258N	MULB	OP AMP	20- 53
79		239		LM239AJZ	RTN	VOLT COMP	82- 49	189		258		LM258N	PHIN	OP AMP	20- 53
80		239		LM239AN	MOTA	VOLT COMP	82- 59	190		258		LM258N	SIC	OP AMP	20- 53
81		239		LM239AN	MULB	VOLT COMP	82- 59	191		258		LM258N	VALG	OP AMP	20- 53
82		239		LM239AN	PHIN	VOLT COMP	82- 59	192		258		LM258P	TII	OP AMP	20- 65
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84		239		LM239F	MULB	VOLT COMP	82- 95	194		258		LM258T	PHIN	OP AMP	20- 54
85		239		LM239F	PHIN	VOLT COMP	82- 95	195		258		LM258T	VALG	OP AMP	20- 54
86		239		LM239F	SIC	VOLT COMP	82- 95	196		258		uPC258C	NECE	OP AMP	37- 42
87		239		LM239F	VALG	VOLT COMP	82- 95	197		258		uPC258C	NECJ	OP AMP	37- 42
88		239		LM239J	MOTA	VOLT COMP	82- 96	198		258		uPC258D	NECE	OP AMP	47- 63
89		239		LM239J	NSC	VOLT COMP	82- 96	199		258		uPC258D	NECJ	OP AMP	47- 63
90		239		LM239J	RTN	VOLT COMP	82- 96	200		258		uPC258G	NECE	OP AMP	47- 42
91		239		LM239J	TII	VOLT COMP	82- 96	201		258		CA258AG	RCA	OP AMP	21- 32
92		239		LM239N	MOTA	VOLT COMP	82- 97	202		258		CA258AS	RCA	OP AMP	21- 33
93		239		LM239N	RTN	VOLT COMP	82- 97	203		258		CA258AT	RCA	OP AMP	21- 34
94		239		LM239N	TII	VOLT COMP	82- 97	204		258		CA258S	RCA	OP AMP	21- 24
95		239		LM239N	MULB	VOLT COMP	82- 98	205		258		CA258T	RCA	OP AMP	21- 27
96		239		LM239N	PHIN	VOLT COMP	82- 98	206		259		uPC259C	NECE	OP AMP	48- 63
97		239		LM239N	SIC	VOLT COMP	82- 98	207		260		LM260H	NSC	VOLT COMP	83- 46
98		239		LM239N	VALG	VOLT COMP	82- 98	208		260		LM260J14	NSC	VOLT COMP	83- 36
99		239		AML239AD	AMD	VOLT COMP	82- 71	209		260		LM260N14	NSC	VOLT COMP	83-100
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2	271	uPC271ED	NECE	VOLT COMP	88- 59	112	301	LM301AU	TII	OP AMP	33- 46
3	271	uPC271ED	NECJ	VOLT COMP	88- 59	113	301	LM301AV	MULB	OP AMP	33- 47
4	271	uPC271G	NECE	VOLT COMP	88- 41	114	301	LM301AV	PHIN	OP AMP	33- 47
5	271	uPC271G	NECJ	VOLT COMP	88- 41	115	301	LM301F	PHIN	OP AMP	32- 96
6	272	uPC272C	NECE	OP AMP	40-103	116	301	AD301AH	ANA	OP AMP	33- 23
7	272	uPC272C	NECJ	OP AMP	40-103	117	301	AD301ALH	ANA	OP AMP	32- 60
8	272	uPC272D	NECE	OP AMP	40-104	118	301	AD301ALN	ANA	OP AMP	32- 61
9	272	uPC272D	NECJ	OP AMP	40-104	119	301	AD301AN	ANA	OP AMP	44- 21
10	272	uPC272G	NECE	VOLT COMP	88- 79	120	301	uPC301AC	NECE	OP AMP	32- 39
11	272	uPC272G	NECJ	VOLT COMP	88- 79	121	301	uPC301AC	NECJ	OP AMP	32- 39
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13	277	uPC277C	NECJ	VOLT COMP	88- 37	123	301	LS301AM	SGAI	OP AMP	42- 49
14	277	uPC277D	NECE	VOLT COMP	88- 49	124	301	LS301AT	SGAI	OP AMP	44- 37
15	277	uPC277D	NECJ	VOLT COMP	88- 49	125	301	QA301A	QUM	OP AMP	45- 62
16	277	uPC277G	NECE	VOLT COMP	88- 39	126	301	CA301AE	RCA	OP AMP	33- 25
17	277	uPC277G	NECJ	VOLT COMP	88- 39	127	301	CA301AH	RCA	OP AMP	33- 26
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19	281	TBA281	PHIN	VOLT REG	78- 2	129	301	CA301AT	RCA	OP AMP	33- 28
20	285	LM285H1.2	NSC	MISC	102- 52	130	301	SG301AM	SGL	OP AMP	33- 20
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24	287	TL287CP	TII	OP AMP	36- 86	134	302	LM302H	NSC	SPECIAL	90- 24
25	287	TL287JG	TII	OP AMP	23- 20	135	302	OA302	QUM	OP AMP	45- 63
26	287	TL287IP	TII	OP AMP	23- 21	136	303	AM303A	DTL	OP AMP	56- 32
27	287	TL287MJG	TII	OP AMP	23- 22	137	303	AM303B	DTL	OP AMP	56- 31
28	288	TL288CJG	TII	OP AMP	36- 87	138	304	LM304H	NSC	VOLT REG	75- 3
29	288	TL288CP	TII	OP AMP	36- 88	139	304	LM304J	TII	VOLT REG	78- 27
30	288	TL288CU	TII	OP AMP	24- 52	140	304	LM304N	TII	VOLT REG	78- 28
31	288	TL288JG	TII	OP AMP	23- 25	141	304	OA304	QUM	OP AMP	45- 60
32	288	TL288IP	TII	OP AMP	23- 26	142	304	SG304T	SGL	VOLT REG	75- 5
33	288	TL288IU	TII	OP AMP	24- 53	143	305	uA305AHC	FSC	VOLT REG	79- 49
34	288	TL288MJG	TII	OP AMP	24- 107	144	305	uA305HC	FSC	VOLT REG	75-100
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36	290	L290B	SGAI	MISC	101- 17	146	305	LM305AJG	TII	VOLT REG	76- 6
37	290	SG290N	SGL	MISC	101- 50	147	305	LM305AP	TII	VOLT REG	77- 27
38	291	L291	SGAI	MISC	101- 18	148	305	LM305H	NSC	VOLT REG	75- 98
39	291	L291B	SGAI	MISC	101- 19	149	305	LM305JG	TII	VOLT REG	75-104
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42	292	SG292S	SGL	MISC	105- 74	152	305	TCA305A(A)	SIEG	MISC	99- 28
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46	293	LM293AFE	SIC	VOLT COMP	88- 83	156	305	uPC305G	NECJ	VOLT REG	81- 3
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49	293	LM293AH#	SIC	VOLT COMP	89- 14	159	306	LM306J	TII	VOLT COMP	86- 18
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51	293	LM293AN	PHIN	VOLT COMP	82- 14	161	306	LM306N	TII	VOLT COMP	86- 20
52	293	LM293AN	SIC	VOLT COMP	82- 14	162	306	LM306P	TII	VOLT COMP	86- 21
53	293	LM293AN	VALG	VOLT COMP	82- 14	163	306	LM306U	TII	VOLT COMP	86- 22
54	293	LM293AT	MULB	VOLT COMP	82- 15	164	307	uA307HC	FSC	OP AMP	27- 65
55	293	LM293AT	VALG	VOLT COMP	82- 15	165	307	uA307TC	FSC	OP AMP	27- 66
56	293	LM293FE	SIC	VOLT COMP	88- 84	166	307	LM307DE	RTN	OP AMP	33- 19
57	293	LM293H	MOTA	VOLT COMP	82- 24	167	307	LM307FZ	MULB	OP AMP	44- 22
58	293	LM293H	NSC	VOLT COMP	82- 24	168	307	LM307FZ	PHIN	OP AMP	44- 22
59	293	LM293H#	SIC	VOLT COMP	89- 15	169	307	LM307FZ	VALG	OP AMP	44- 22
60	293	LM293JG	TII	VOLT COMP	82- 25	170	307	LM307H	MOTA	OP AMP	33- 48
61	293	LM293N	MULB	VOLT COMP	82- 26	171	307	LM307H	NSC	OP AMP	33- 48
62	293	LM293N	PHIN	VOLT COMP	82- 26	172	307	LM307H	RTN	OP AMP	33- 48
63	293	LM293N	SIC	VOLT COMP	82- 26	173	307	LM307J14	NSC	OP AMP	33- 49
64	293	LM293N	VALG	VOLT COMP	82- 26	174	307	LM307J	TII	OP AMP	33- 50
65	293	LM293P	TII	VOLT COMP	82- 27	175	307	LM307JZ	NSC	OP AMP	33- 51
66	293	LM293T	MULB	VOLT COMP	82- 28	176	307	LM307JG	TII	OP AMP	33- 52
67	293	LM293T	PHIN	VOLT COMP	82- 28	177	307	LM307N	INL	OP AMP	44- 23
68	293	LM293T	VALG	VOLT COMP	82- 28	178	307	LM307N	MOTA	OP AMP	44- 23
69	293	uA293ARC	FSC	VOLT COMP	83- 19	179	307	LM307N	NSC	OP AMP	44- 23
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74	0301	TDA0301D	PHIN	OP AMP	33- 59	184	307	LM307NZ	VALG	OP AMP	44- 24
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76	301	uA301AHC	FSC	OP AMP	33- 60	186	307	LM307T	INL	OP AMP	33- 54
77	301	uA301ATC	FSC	OP AMP	33- 61	187	307	LM307T	MULB	OP AMP	33- 54
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81	301	LM301AF	MULB	OP AMP	33- 34	191	307	LM307V	MULB	OP AMP	33- 56
82	301	LM301AF	PHIN	OP AMP	33- 34	192	307	LM307V	PHIN	OP AMP	33- 56
83	301	LM301AF	VALG	OP AMP	33- 34	193	307	LS307B	SGAI	OP AMP	44- 94
84	301	LM301AFE	RTCF	OP AMP	48- 21	194	307	LS307M	SGAI	OP AMP	42- 50
85	301	LM301AFE	SIC	OP AMP	48- 21	195	307	LS307T	SGAI	OP AMP	44- 38
86	301	LM301AH	INL	OP AMP	33- 35	196	307	AML307D	AMD	OP AMP	33- 24
87	301	LM301AH	NSC	OP AMP	33- 35	197	307	MA307	ANS	OP AMP	45- 43
88	301	LM301AH	RTN	OP AMP	33- 35	198	307	CA307E	RCA	OP AMP	33- 29
89	301	LM301AHZ	MOTA	OP AMP	33- 36	199	307	CA307G	RCA	OP AMP	33- 30
90	301	LM301AJ14	NSC	OP AMP	24- 45	200	307	CA307H	RCA	OP AMP	33- 31
91	301	LM301AJ	TII	OP AMP	33- 37	201	307	CA307S	RCA	OP AMP	33- 32
92	301	LM301AJZ	NSC	OP AMP	33- 38	202	307	CA307T	RCA	OP AMP	33- 33
93	301	LM301AJ%	MOTA	OP AMP	33- 39	203	308	uA308AHC	FSC	OP AMP	47- 15
94	301	LM301AJG	TII	OP AMP	33- 40	204	308	uA308AHM	FSC	OP AMP	47- 52
95	301	LM301AN	INL	OP AMP	33- 41	205	308	uA308ATC	FSC	OP AMP	47- 16
96	301	LM301AN	MULB	OP AMP	33- 41	206	308	uA308HC	FSC	OP AMP	28- 79
97	301	LM301AN	NSC	OP AMP	33- 41	207	308	uA308HM	FSC	OP AMP	47- 73
98	301	LM301AN	PHIN	OP AMP	33- 41	208	308	uA308TC	FSC	OP AMP	47- 17
99	301	LM301AN	RTCF	OP AMP	33- 41	209	308	PM308AJ	PMI	OP AMP	28- 50
100	301	LM301AN	RTN	OP AMP	33- 41	210	308	PM308AP	PMI	OP AMP	28- 75
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102	301	LM301AN	TII	OP AMP	33- 41	212	308	PM308J	PMI	OP AMP	28- 76
103	301	LM301ANZ	VALG	OP AMP	33- 41	213	308	PM308P	PMI	OP AMP	44- 25
104	301	LM301ANZ	MOTA	OP AMP	33- 42	214	308	PM308Z	PMI	OP AMP	44- 26
105	301	LM301AN-14	MULB	OP AMP	33- 43	215	308	LM308AD	INL	OP AMP	28- 43
106	301	LM301AN-14	PHIN	OP AMP	33- 43	216	308	LM308ADZ	MOTA	OP AMP	28- 44
107	301	LM301AN-14	VALG	OP AMP	33- 43	217	308	LM308AF	MULB	OP AMP	49- 28
108	301	LM301AP	TII	OP AMP	33- 44	218	308	LM308AF	VALG	OP AMP	49- 28
109	301	LM301AT	MULB	OP AMP	33- 45	219	308	LM308AH	NSC	OP AMP	28- 45
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2	308	LM308AH-1	NSC	OP AMP	28- 39	112	311	LM311N	TI	VOLT COMP	88-110
3	308	LM308AH-2	NSC	OP AMP	28- 40	113	311	LM311N	MULB	VOLT COMP	87- 43
4	308	LM308AJ	HAS	OP AMP	52- 66	114	311	LM311N	PHIN	VOLT COMP	87- 43
5	308	LM308AJ	NSC	OP AMP	28- 46	115	311	LM311N	SIC	VOLT COMP	87- 43
6	308	LM308AJ	MOTA	OP AMP	28- 47	116	311	LM311N	VALG	VOLT COMP	87- 43
7	308	LM308AJ-8	NSC	OP AMP	28- 48	117	311	LM311N-14	MULB	VOLT COMP	87- 44
8	308	LM308AN	NSC	OP AMP	28- 48	118	311	LM311N-14	PHIN	VOLT COMP	87- 44
9	308	LM308AN	HAS	OP AMP	49- 29	119	311	LM311N-14	VALG	VOLT COMP	87- 44
10	308	LM308AN	MOTA	OP AMP	49- 29	120	311	LM311N	TI	VOLT COMP	87- 45
11	308	LM308AN	MULB	OP AMP	49- 29	121	311	LM311T	MULB	VOLT COMP	87- 46
12	308	LM308AN	PHIN	OP AMP	49- 29	122	311	LM311T	PHIN	VOLT COMP	87- 46
13	308	LM308AN	VALG	OP AMP	49- 29	123	311	LM311T	VALG	VOLT COMP	87- 46
14	308	LM308AT	INL	OP AMP	49- 30	124	311	LM311U	TI	VOLT COMP	87- 47
15	308	LM308AT	MULB	OP AMP	49- 30	125	311	LM311V	MULB	VOLT COMP	87- 48
16	308	LM308AT	PHIN	OP AMP	49- 30	126	311	LM311V	PHIN	VOLT COMP	87- 48
17	308	LM308AT	VALG	OP AMP	49- 30	127	311	TCA311	SIEG	OP AMP	29- 58
18	308	LM308D	INL	OP AMP	28- 68	128	311	TCA311A	SIEG	OP AMP	29- 59
19	308	LM308D	MOTA	OP AMP	28- 66	129	311	TCA311GA	SIEG	OP AMP	27- 9
20	308	LM308DE	RTN	OP AMP	28- 69	130	311	TCA311GG	SIEG	OP AMP	27- 10
21	308	LM308F	MULB	OP AMP	49- 59	131	311	TCA311W	SIEG	OP AMP	29- 60
22	308	LM308F	PHIN	OP AMP	49- 59	132	311	LF311H	NSC	VOLT COMP	87- 52
23	308	LM308F	VALG	OP AMP	49- 59	133	311	uPC311C	NECE	VOLT COMP	87- 31
24	308	LM308H	NSC	OP AMP	28- 70	134	311	uPC311C	NECJ	VOLT COMP	87- 31
25	308	LM308H	RTN	OP AMP	28- 70	135	311	uPC311G	NECE	VOLT COMP	88- 42
26	308	LM308H	HAS	OP AMP	47- 72	136	311	uPC311G	NECJ	VOLT COMP	88- 42
27	308	LM308J	HAS	OP AMP	48- 19	137	311	LP311H	NSC	VOLT COMP	88- 57
28	308	LM308J	NSC	OP AMP	48- 19	138	311	LP311N	NSC	VOLT COMP	88- 58
29	308	LM308J	NSC	OP AMP	28- 71	139	311	TL311AJ	TI	VOLT COMP	88- 9
30	308	LM308J	MOTA	OP AMP	28- 67	140	311	TL311AJG	TI	VOLT COMP	88- 10
31	308	LM308J-8	NSC	OP AMP	28- 72	141	311	TL311AN	TI	VOLT COMP	88- 11
32	308	LM308N	NSC	OP AMP	28- 73	142	311	TL311AP	TI	OP AMP	24-103
33	308	LM308N	RTN	OP AMP	28- 73	143	311	AMLM311	AMD	VOLT COMP	87- 56
34	308	LM308N	HAS	OP AMP	49- 60	144	311	TL311J	TI	VOLT COMP	88- 12
35	308	LM308N	MOTA	OP AMP	49- 60	145	311	AMLM311D	AMD	VOLT COMP	87- 57
36	308	LM308N	MULB	OP AMP	49- 60	146	311	TL311JG	TI	VOLT COMP	88- 13
37	308	LM308N	PHIN	OP AMP	49- 60	147	311	TL311N	TI	VOLT COMP	88- 14
38	308	LM308N	VALG	OP AMP	49- 60	148	311	TL311P	TI	VOLT COMP	88- 15
39	308	LM308T	INL	OP AMP	49- 61	149	311	UJO311	AVA	WIDEBD AMP	60- 65
40	308	LM308T	MULB	OP AMP	49- 61	150	311	CA311E	RCA	VOLT COMP	87- 32
41	308	LM308T	PHIN	OP AMP	49- 61	151	311	CA311S	RCA	VOLT COMP	87- 33
42	308	LM308T	VALG	OP AMP	49- 61	152	311	CA311T	RCA	VOLT COMP	87- 34
43	308	AMLM308	AMD	OP AMP	28- 11	153	311	SG311J	SGL	VOLT COMP	87- 58
44	308	AMLM308A	AMD	OP AMP	28- 41	154	311	SG311M	SGL	VOLT COMP	87- 59
45	308	AMLM308AD	AMD	OP AMP	28- 42	155	311	SG311T	SGL	VOLT COMP	87- 60
46	308	AMLM308D	AMD	OP AMP	28- 12	156	312	LM312H	NSC	OP AMP	28- 74
47	308	SG308AF	SGL	OP AMP	28- 51	157	312	TCA312	SIEG	OP AMP	2- 61
48	308	SG308AJ	SGL	OP AMP	28- 52	158	313	LM313H	NSC	MISC	103- 61
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50	308	SG308AT	SGL	OP AMP	28- 54	160	315	TCA315A	SIEG	OP AMP	29- 63
51	308	SG308AY	SGL	OP AMP	28- 55	161	315	TCA315GG	SIEG	OP AMP	27- 11
52	308	SG308F	SGL	OP AMP	28- 77	162	315	TCA315W	SIEG	OP AMP	29- 64
53	308	SG308J	SGL	OP AMP	28- 13	163	316	LM316AH	NSC	OP AMP	49- 27
54	308	SG308M	SGL	OP AMP	28- 14	164	316	LM316H	NSC	OP AMP	50- 6
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58	309	LM309DA	MULB	VOLT REG	64- 92	168	317	LM317H	NSC	VOLT REG	77- 51
59	309	LM309DA	PHIN	VOLT REG	64- 92	169	317	LM317HVH	NSC	VOLT REG	62- 14
60	309	LM309DA	VALG	VOLT REG	64- 92	170	317	LM317HVK	NSC	VOLT REG	90-105
61	309	LM309DB	MULB	VOLT REG	64- 93	171	317	LM317K	MOTA	VOLT REG	77- 58
62	309	LM309DB	PHIN	VOLT REG	64- 93	172	317	LM317K	NSC	VOLT REG	77- 58
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65	309	LM309H	MOTA	VOLT REG	65- 59	175	317	LM317LH	MOTA	VOLT REG	77- 52
66	309	LM309K	NSC	VOLT REG	66- 3	176	317	LM317LZ	MOTA	VOLT REG	77- 35
67	309	LM309K	MOTA	VOLT REG	65- 90	177	317	LM317LZ	NSC	VOLT REG	77- 35
68	309	SG309K	SGL	VOLT REG	65- 95	178	317	LM317MP	NSC	VOLT REG	77- 59
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71	310	LM310D	INL	SPECIAL	90- 41	181	317	LM317T	MOTA	VOLT REG	77- 60
72	310	LM310H	INL	SPECIAL	90- 42	182	317	LM317T	NSC	VOLT REG	77- 60
73	310	LM310H	NSC	SPECIAL	90- 42	183	317	UC317K	UNI	VOLT REG	62-100
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75	310	LM310J	NSC	SPECIAL	90- 44	185	317	LLM317	LAM	VOLT REG	62- 87
76	310	LM310N	NSC	SPECIAL	90- 45	186	317	TL317JG	TI	VOLT REG	63- 11
77	310	MWA310	MOTA	WIDEBD AMP	59- 3	187	317	TL317P	TI	VOLT REG	63- 10
78	310	UJO310	AVA	WIDEBD AMP	60- 66	188	317	SG317K	SGL	VOLT REG	77- 55
79	310	SG310J	SGL	OP AMP	46- 59	189	317	SG317T	SGL	VOLT REG	77- 38
80	310	SG310M	SGL	OP AMP	46- 60	190	317	SG317T	SGL	VOLT REG	77- 46
81	310	SG310N	SGL	OP AMP	46- 61	191	00318	MA00318CP	ANS	OP AMP	23- 1
82	310	SG310T	SGL	OP AMP	46- 62	192	318	uA318IF	FSC	OP AMP	22- 73
83	310	SG310Y	SGL	OP AMP	47- 63	193	318	LM318DE	RTN	OP AMP	41- 23
84	311	uA311HC	FSC	VOLT COMP	87- 49	194	318	LM318H	NSC	OP AMP	41- 24
85	311	uA311RC	FSC	VOLT COMP	87- 50	195	318	LM318H	RTN	OP AMP	41- 24
86	311	uA311TC	FSC	VOLT COMP	87- 51	196	318	LM318H	NSC	OP AMP	41- 25
87	311	PM311(A)	PMI	VOLT COMP	87- 53	197	318	LM318J-8	NSC	OP AMP	41- 26
88	311	PM311(A)	PMI	VOLT COMP	87- 54	198	318	LM318JG	TI	OP AMP	41- 27
89	311	LM311D	INL	VOLT COMP	87- 36	199	318	LM318N	NSC	OP AMP	41- 28
90	311	LM311D#	SIC	VOLT COMP	88- 56	200	318	LM318N	RTN	OP AMP	41- 28
91	311	LM311DE	RTN	VOLT COMP	87- 37	201	318	LM318N	TI	OP AMP	41- 28
92	311	LM311F	INL	VOLT COMP	87- 38	202	318	LM318N	TI	OP AMP	41- 29
93	311	LM311F	MULB	VOLT COMP	87- 38	203	318	LM318N	TI	OP AMP	41- 30
94	311	LM311F	PHIN	VOLT COMP	87- 38	204	318	LM318P	TI	OP AMP	41- 31
95	311	LM311F	VALG	VOLT COMP	87- 38	205	318	LM318P	TI	OP AMP	41- 31
96	311	LM311H	INL	VOLT COMP	88- 108	206	318	LM318C	NECJ	OP AMP	52- 60
97	311	LM311H	MOTA	VOLT COMP	88- 108	207	318	uPC318C	AM	OP AMP	52- 62
98	311	LM311H	NSC	VOLT COMP	88- 108	208	318	AMLM318D	AMD	OP AMP	52- 63
99	311	LM311H	NSC	VOLT COMP	88- 108	209	318	AM318	ANS	OP AMP	41- 59
100	311	LM311H	RTN	VOLT COMP	88- 108	210	0319	TDA0319D	PHIN	VOLT COMP	86- 2
101	311	LM311H	SIC	VOLT COMP	88- 108	211	319	TDA0319D	VALG	VOLT COMP	86- 2
102	311	LM311J	NSC	VOLT COMP	87- 39	212	319	LM319F	MULB	VOLT COMP	87- 82
103	311	LM311J8%	MOTA	VOLT COMP	88- 109	213	319	LM319F	PHIN	VOLT COMP	87- 82
104	311	LM311J	NSC	VOLT COMP	87- 40	214	319	LM319F	SIC	VOLT COMP	87- 82
105	311	LM311J	TI	VOLT COMP	87- 40	215	319	LM319H	VALG	VOLT COMP	87- 82
106	311	LM311JG	TI	VOLT COMP	87- 41	216	319	LM319H	NSC	VOLT COMP	87- 83
107	311	LM311N14	NSC	VOLT COMP	87- 42	217	319	LM319H#	SIC	VOLT COMP	88- 62
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109	311	LM311N	MOTA	VOLT COMP	88- 110	219	319	LM319K	MULB	VOLT COMP	87- 85
110	311	LM311N	NSC	VOLT COMP	88- 110	220	319	LM319K	PHIN	VOLT COMP	87- 85
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3	319	LM319N	PHIN	VOLT COMP	88- 1	113	324	uA324PC	FSC	OP AMP	21- 42
4	319	LM319N	SIC	VOLT COMP	88- 1	114	324	LM324AF	MULB	OP AMP	20- 97
5	319	LM319N	VALG	VOLT COMP	88- 1	115	324	LM324AF	PHIN	OP AMP	20- 97
6	319	uPC319C	NECE	OP AMP	40-105	116	324	LM324AF	VALG	OP AMP	20- 97
7	319	uPC319C	NECJ	OP AMP	40-105	117	324	LM324AJ	NSC	OP AMP	21- 21
8	319	uPC319G	NECE	VOLT COMP	88- 80	118	324	LM324AJ	RTN	OP AMP	21- 21
9	319	uPC319G	NECJ	VOLT COMP	88- 80	119	324	LM324AN	NSC	OP AMP	21- 22
10	319	AMLM319D	AMD	VOLT COMP	87- 79	120	324	LM324AN	PHIN	OP AMP	21- 22
11	319	AMLM319H	AMD	VOLT COMP	87- 80	121	324	LM324AN	RTN	OP AMP	21- 22
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14	320	320VF	SSE	SPECIAL	94- 16	124	324	LM324D#	SIC	OP AMP	45- 71
15	320	TAA320	PHIN	MISC	101- 55	125	324	LM324F	MULB	OP AMP	20- 66
16	320	TAA320	VALG	MISC	101- 55	126	324	LM324F	PHIN	OP AMP	20- 66
17	320	TAA320A	PHIN	MISC	101- 56	127	324	LM324F	SIC	OP AMP	20- 66
18	320	TAA320A	VALG	MISC	101- 56	128	324	LM324F	VALG	OP AMP	20- 66
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21	320	LM320H15	NSC	VOLT REG	75- 15	131	324	LM324J	TII	OP AMP	20-101
22	320	LM320K5.0	NSC	VOLT REG	64- 30	132	324	LM324J	NSC	OP AMP	21- 13
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24	320	LM320K15	NSC	VOLT REG	75- 30	134	324	LM324N	NSC	OP AMP	21- 8
25	320	LM320KC5.0	NSC	VOLT REG	64- 31	135	324	LM324N	PHIN	OP AMP	21- 8
26	320	LM320KC12	NSC	VOLT REG	72- 21	136	324	LM324N	RTN	OP AMP	21- 8
27	320	LM320KC15	NSC	VOLT REG	75- 31	137	324	LM324N	TII	OP AMP	21- 8
28	320	LM320LZ5.0	NSC	VOLT REG	65- 53	138	324	LM324N	MULB	OP AMP	20- 67
29	320	LM320LZ12	NSC	VOLT REG	71- 56	139	324	LM324N	SIC	OP AMP	20- 67
30	320	LM320LZ15	NSC	VOLT REG	74- 21	140	324	LM324N	VALG	OP AMP	20- 67
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32	320	LM320MLP5.0TB	NSC	VOLT REG	66- 37	142	324	uPC324C	NECJ	OP AMP	21- 1
33	320	LM320MLP12	NSC	VOLT REG	72- 6	143	324	MA324	ANS	OP AMP	40-106
34	320	LM320MLP12TB	NSC	VOLT REG	72- 57	144	324	CA324E	RCA	OP AMP	21- 10
35	320	LM320MLP15	NSC	VOLT REG	74- 72	145	324	CA324H	RCA	OP AMP	21- 11
36	320	LM320MLP15TB	NSC	VOLT REG	75- 66	146	324	SG324J	SGL	OP AMP	20-108
37	320	LM320MP5.0	NSC	VOLT REG	64- 27	147	324	SG324N	SGL	OP AMP	20-109
38	320	LM320MP5.0TB	NSC	VOLT REG	66- 30	148	325	TCA325	SIEG	OP AMP	29- 55
39	320	LM320MP12	NSC	VOLT REG	70- 77	149	325	TCA325A	SIEG	OP AMP	29- 56
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57	320	SG320-5.2K	SGL	VOLT REG	66- 46	167	330	AGC330	AVA	MISC	105-109
58	320	SG320-5.2P	SGL	VOLT REG	66- 47	168	331	TCA331	SIEG	OP AMP	29- 65
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60	320	SG320-5.2T	SGL	VOLT REG	66- 49	170	331	TCA331GA	SIEG	OP AMP	27- 12
61	320	SG320-8K	SGL	VOLT REG	68- 18	171	331	TCA331GG	SIEG	OP AMP	27- 13
62	320	SG320-8P	SGL	VOLT REG	68- 19	172	331	TCA331K	SIEG	OP AMP	27- 14
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35		355		LF355	ANS	OP AMP	35- 2	145		358		CA358AT	RCA	OP AMP	21- 36
36		355		LF355AH	AMD	OP AMP	34- 89	146		358		CA358S	RCA	OP AMP	21- 28
37		355		LF355AH	NSC	OP AMP	34- 89	147		358		CA358T	RCA	OP AMP	21- 29
38		355		LF355AT	MULB	OP AMP	34- 87	148		359		LM359J	NSC	OP AMP	22- 1
39		355		LF355AT	PHIN	OP AMP	34- 87	149		359		LM359N	NSC	OP AMP	21-109
40		355		LF355AT	VALG	OP AMP	34- 87	150		360		LM360H	NSC	VOLT COMP	83- 47
41		355		LF355BH	MOTA	OP AMP	34- 98	151		360		LM360N14	NSC	VOLT COMP	83- 48
42		355		LF355BJ	MOTA	OP AMP	34- 99	152		360		LM360N	NSC	VOLT COMP	83- 49
43		355		LF355BN	MOTA	OP AMP	34-100	153		361		LM361H	NSC	VOLT COMP	85- 77
44		355		LF355H	AMD	OP AMP	35- 3	154		361		LM361J	NSC	VOLT COMP	85- 73
45		355		LF355H	MOTA	OP AMP	35- 3	155		361		LM361N	NSC	VOLT COMP	85- 78
46		355		LF355H	NSC	OP AMP	35- 3	156		363		LM363AD	NSC	SPECIAL	95- 24
47		355		LF355H	RTCF	OP AMP	35- 3	157		363		LM363AH10	NSC	SPECIAL	95- 25
48		355		LF355HΔ	SIC	OP AMP	22- 53	158		363		LM363AH100	NSC	SPECIAL	95- 26
49		355		LF355J	MOTA	OP AMP	35- 4	159		363		LM363AH500	NSC	SPECIAL	95- 27
50		355		LF355N	AMD	OP AMP	35- 5	160		363		LM363D	NSC	SPECIAL	95- 28
51		355		LF355N	MOTA	OP AMP	35- 5	161		363		LM363H10	NSC	SPECIAL	95- 29
52		355		LF355N	NSC	OP AMP	35- 5	162		363		LM363H100	NSC	SPECIAL	95- 30
53		355		LF355N	SIC	OP AMP	35- 5	163		363		LM363H500	NSC	SPECIAL	95- 31
54		355		LF355T	MULB	OP AMP	34-106	164		365		TCA365	SIEG	OP AMP	48- 81
55		355		LF355T	PHIN	OP AMP	34-106	165		365		TCA365H	SIEG	OP AMP	25- 7
56		355		LF355T	VALG	OP AMP	34-106	166		365		LP365AN	NSC	VOLT COMP	88- 51
57		356		PM356AJ	PMI	OP AMP	39- 66	167		365		LP365D	NSC	VOLT COMP	88- 60
58		356		PM356AZ	PMI	OP AMP	54- 79	168		365		LP365N	NSC	VOLT COMP	88- 61
59		356		PM356J	PMI	OP AMP	41- 54	169		365		MA365	ANS	OP AMP	41- 53
60		356		PM356Z	PMI	OP AMP	47-106	170		370		OM370	PHIN	WIDEBD AMP	59- 58
61		356		LD356	AMD	OP AMP	41- 44	171		376		uA376TC	FSC	VOLT REG	79- 33
62		356		LD356A	AMD	OP AMP	41- 37	172		376		LM376JG	TI	VOLT REG	75-105
63		356		LF356	ANS	OP AMP	41- 45	173		376		LM376N	NSC	VOLT REG	62-104
64		356		LF356AH	AMD	OP AMP	41- 38	174		376		LM376P	TI	VOLT REG	75-106
65		356		LF356AH	NSC	OP AMP	41- 38	175		376		TL376CNE	TI	MISC	101-101
66		356		LF356AT	MULB	OP AMP	41- 35	176		380		AD380JH	ANA	WIDEBD AMP	61- 78
67		356		LF356AT	PHIN	OP AMP	41- 35	177		380		AD380KH	ANA	WIDEBD AMP	61- 79
68		356		LF356AT	VALG	OP AMP	41- 35	178		380		AD380LH	ANA	WIDEBD AMP	61- 80
69		356		LF356BH	MOTA	OP AMP	39- 84	179		380		AD380SH#mil	ANA	WIDEBD AMP	61- 81
70		356		LF356BJ	MOTA	OP AMP	39- 85	180		381		AD381JH	ANA	OP AMP	32- 98
71		356		LF356BN	MOTA	OP AMP	39- 86	181		381		AD381KH	ANA	OP AMP	32- 78
72		356		LF356D	RTCF	OP AMP	47-108	182		381		AD381LH	ANA	OP AMP	32- 59
73		356		LF356D	SIC	OP AMP	47-108	183		381		AD381SH#mil	ANA	OP AMP	32- 79
74		356		LF356H	AMD	OP AMP	41- 46	184		381		AD381TH#mil	ANA	OP AMP	32- 62
75		356		LF356H	MOTA	OP AMP	41- 46	185		382		AD382JH	ANA	OP AMP	34- 14
76		356		LF356H	NSC	OP AMP	41- 46	186		382		AD382KH	ANA	OP AMP	33-109
77		356		LF356H	RTCF	OP AMP	41- 46	187		382		AD382LH	ANA	OP AMP	33-107
78		356		LF356H	SIC	OP AMP	22- 74	188		382		AD382SH#mil	ANA	OP AMP	33-110
79		356		LF356J	MOTA	OP AMP	41- 47	189		382		AD382TH#mil	ANA	OP AMP	33-108
80		356		LF356N	AMD	OP AMP	41- 48	190		385		LM385BH1.2	NSC	MISC	102- 60
81		356		LF356N	MOTA	OP AMP	41- 48	191		385		LM385B2.2	NSC	MISC	102- 61
82		356		LF356N	NSC	OP AMP	41- 48	192		385		LM385B22.5	NSC	MISC	102- 62
83		356		LF356N	RTCF	OP AMP	41- 48	193		385		LM385H1.2	NSC	MISC	102- 63
84		356		LF356N	SIC	OP AMP	41- 48	194		385		LM385H2.5	NSC	MISC	102- 64
85		356		LF366T	MULB	OP AMP	41- 42	195		385		LM385Z1.2	NSC	MISC	102- 65
86		356		LF366T	PHIN	OP AMP	41- 42	196		385		LM385Z2.5	NSC	MISC	102- 66
87		359		LF396T	VALG	OP AMP	41- 42	197		392		LM392H	NSC	OP AMP	20- 30
88		357		PM357AJ	PMI	OP AMP	39- 67	198		392		LM392J	NSC	OP AMP	20- 31
89		357		PM357AZ	PMI	OP AMP	54- 80	199		392		LM392N	NSC	OP AMP	20- 32
90		357		PM357J	PMI	OP AMP	41- 55	200		393		uA393ARC	FSC	VOLT COMP	83- 21
91		357		PM357Z	PMI	OP AMP	47-107	201		393		uA393ATC	FSC	VOLT COMP	83- 22
92		357		LF357AH	NSC	OP AMP	41- 39	202		393		uA393ARC	FSC	VOLT COMP	83- 26
93		357		LF357AT	MULB	OP AMP	41- 36	203		393		uA393TC	FSC	VOLT COMP	83- 27
94		357		LF357AT	PHIN	OP AMP	41- 36	204		393		LM393AFE	SIC	VOLT COMP	88- 85
95		357		LF357AT	VALG	OP AMP	41- 36	205		393		LM393AH	MOTA	VOLT COMP	82- 16
96		357		LF357BH	MOTA	OP AMP	39- 87	206		393		LM393AH	NSC	VOLT COMP	82- 16
97		357		LF357BJ	MOTA	OP AMP	39- 88	207		393		LM393AH#	SIC	VOLT COMP	82- 16
98		357		LF357BN	MOTA	OP AMP	39- 89	208		393		LM393AN	MULB	VOLT COMP	82- 17
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1	393	LM393N	MOTA	VOLT COMP	82- 31	111	427	AM427-1M	DTL	OP AMP	55- 25
2	393	LM393N	MULB	VOLT COMP	82- 31	112	427	AM427-2A	DTL	OP AMP	55- 26
3	393	LM393N	NSC	VOLT COMP	82- 31	113	427	AM427-2B	DTL	OP AMP	55- 23
4	393	LM393N	PHIN	VOLT COMP	82- 31	114	427	AM427-2M	DTL	OP AMP	55- 27
5	393	LM393N	SIC	VOLT COMP	82- 31	115	430	430Z	SSE	SPECIAL	93- 24
6	393	LM393N	VALG	VOLT COMP	82- 31	116	430	430KF	SSE	SPECIAL	93- 30
7	393	LM393P	TII	VOLT COMP	82- 32	117	430	AM430A	DTL	OP AMP	52- 46
8	393	LM393T	MULB	VOLT COMP	82- 33	118	430	AM430B	DTL	OP AMP	52- 42
9	393	LM393T	PHIN	VOLT COMP	82- 33	119	430	AM430M	DTL	OP AMP	52- 47
10	393	LM393T	VALG	VOLT COMP	82- 33	120	430	TL430CJG	TII	MISC	103- 22
11	393	uPC393C	NECE	VOLT COMP	88- 38	121	431	uA431HC	FSC	VOLT REG	77- 61
12	393	uPC393C	NECJ	VOLT COMP	88- 38	122	431	uA431HM	FSC	VOLT REG	77- 62
13	393	uPC393G	NECE	VOLT COMP	88- 40	123	431	uA431WC	FSC	VOLT REG	77- 63
14	393	uPC393G	NECJ	VOLT COMP	88- 40	124	431	uA431WV	FSC	VOLT REG	77- 64
15	396	LM396K	NSC	VOLT REG	62- 65	125	431	TL431CLP	MOTA	VOLT REG	62- 32
16	398	LF398H	PHIN	SPECIAL	94- 86	126	431	TL431CLP	TII	VOLT REG	62- 32
17	399	LM399AH-50	NSC	MISC	102- 67	127	431	TL431CP	MOTA	VOLT REG	62- 42
18	400	TBA400	SIEG	RF/IF AMP	58- 31	128	431	TL431CP	TII	VOLT REG	62- 42
19	400	TBA400	THEF	RF/IF AMP	58- 31	129	431	TL431ILP	MOTA	VOLT REG	62- 33
20	400	TBA400D	SIEG	RF/IF AMP	58- 32	130	431	TL431ILP	TII	VOLT REG	62- 33
21	400	TBA400D	THEF	RF/IF AMP	58- 32	131	431	TL431IP	MOTA	VOLT REG	62- 43
22	400	MA400	ANS	OP AMP	40- 80	132	431	TL431IP	TII	VOLT REG	62- 43
23	401	GPD401	AVA	WIDE BD AMP	59-105	133	431	TL431MJG	MOTA	VOLT REG	81- 17
24	401	AH401	ALP	WIDE BD AMP	60- 69	134	433	433	OPA	OP AMP	55- 72
25	401	VR401	QUM	VOLT REG	72- 80	135	434	434	OPA	OP AMP	55- 73
26	401	u401B	ALGG	MISC	101- 62	136	435	TBA435AX5	SGAI	VOLT REG	69- 50
27	402	GPD402	AVA	WIDE BD AMP	59-106	137	440	440Z	SSE	SPECIAL	93- 25
28	402	AH402	ALP	WIDE BD AMP	60- 70	138	440	440KF	SSE	SPECIAL	93- 31
29	403	GPD403	AVA	WIDE BD AMP	61- 41	139	440	TL440CJ	TII	MISC	101-102
30	403	AH403	ALP	WIDE BD AMP	61- 68	140	440	TL440CN	TII	MISC	101-103
31	403	MA403IP(A)	ANS	OP AMP	46- 51	141	441	SL441A	PLSB	MISC	101- 88
32	404	GPD404	AVA	WIDE BD AMP	59-103	142	441	SL441C	PLSB	MISC	101- 89
33	404	MK404IP(A)	ANS	VOLT COMP	88- 30	143	441	LF441ACH	NSC	OP AMP	55- 40
34	404	AH404	ALP	WIDE BD AMP	60- 71	144	441	LF441ACN	NSC	OP AMP	54-101
35	404	ZN404	FERB	SPECIAL	95- 82	145	441	LF441AMH	NSC	OP AMP	55- 41
36	405	MR405IP(A)	ANS	MISC	102- 86	146	441	LF441BCH	NSC	OP AMP	55- 42
37	406	MA406IP(A)	ANS	OP AMP	16- 53	147	441	LF441BCN	NSC	OP AMP	54-102
38	407	MA407	ANS	OP AMP	46- 68	148	441	LF441BMH	NSC	OP AMP	55- 43
39	409	MF409IP	ANS	MISC	104- 51	149	441	LF441CH	NSC	OP AMP	48- 55
40	409	ZN409CE	FERB	SPECIAL	96- 89	150	441	LF441CN	NSC	OP AMP	48- 3
41	0410	LNA0410	TRWS	WIDE BD AMP	59- 68	151	441	TL441CJ	TII	SPECIAL	90- 68
42	410	410Z	SSE	SPECIAL	93- 23	152	441	TL441CN	TII	SPECIAL	90- 69
43	410	410KF	SSE	SPECIAL	93- 28	153	441	TL441MJ	TII	SPECIAL	90- 70
44	410	MH410	ANS	SPECIAL	94-104	154	441	TL441MN	TII	SPECIAL	90- 71
45	410	TCA410A	MULB	SPECIAL	90- 18	155	442	LF442ACH	NSC	OP AMP	55- 38
46	410	TCA410A	PHIN	SPECIAL	90- 18	156	442	LF442ACN	NSC	OP AMP	54- 87
47	410	TCA410A	VALG	SPECIAL	90- 18	157	442	LF442AMH	NSC	OP AMP	55- 39
48	410	TCA410B	MULB	SPECIAL	90- 19	158	442	LF442CH	NSC	OP AMP	48- 54
49	410	TCA410B	PHIN	SPECIAL	90- 19	159	442	LF442CN	NSC	OP AMP	47-110
50	410	TCA410B	VALG	SPECIAL	90- 19	160	443	SL443A	PLSB	MISC	101- 90
51	410	TCA410D	PHIN	SPECIAL	90- 20	161	444	LF444ACN	NSC	OP AMP	54- 97
52	410	TCA410D	VALG	SPECIAL	90- 20	162	444	LF444AMD	NSC	OP AMP	54- 98
53	410	AM410-2C	DTL	OP AMP	41- 81	163	444	LF444CD	NSC	OP AMP	48- 4
54	410	AM410-2M	DTL	OP AMP	41- 33	164	444	LF444CN	NSC	OP AMP	48- 5
55	410	UTO410	AVA	WIDE BD AMP	60- 76	165	445	SL445A	PLSB	MISC	101- 91
56	411	GPD411	AVA	WIDE BD AMP	59-104	166	446	SL446A	PLSB	MISC	101- 92
57	411	LF411ACH	NSC	OP AMP	55- 34	167	450	450KF	SSE	SPECIAL	93- 32
58	411	LF411ACN	NSC	OP AMP	54- 85	168	450	IC450A	CHE	OP AMP	30- 68
59	411	LF411AMH	NSC	OP AMP	55- 35	169	450	IC450B	CHE	OP AMP	30- 79
60	411	LF411CH	NSC	OP AMP	48- 56	170	450	AM450-2	DTL	OP AMP	35- 20
61	411	LF411CN	NSC	OP AMP	48- 17	171	450	AM450-2M	DTL	OP AMP	35- 21
62	411	LF411MH	NSC	OP AMP	48- 57	172	451	uPC451C	NECE	OP AMP	21- 2
63	411	AM411-2C	DTL	OP AMP	41- 82	173	451	uPC451C	NECJ	OP AMP	21- 2
64	411	AM411-2M	DTL	OP AMP	41- 34	174	451	uPC451D	NECE	OP AMP	45- 99
65	412	LF412ACH	NSC	OP AMP	55- 36	175	451	uPC451D	NECJ	OP AMP	45- 99
66	412	LF412ACN	NSC	OP AMP	54- 86	176	451	uPC451G	NECE	OP AMP	45- 89
67	412	LF412AMH	NSC	OP AMP	55- 37	177	452	uPC452C	NECJ	OP AMP	48- 29
68	412	LF412CH	NSC	OP AMP	48- 58	178	452	uPC452G	NECJ	OP AMP	48- 25
69	412	LF412CN	NSC	OP AMP	48- 18	179	452	AM452-2	DTL	OP AMP	35- 25
70	412	LF412MH	NSC	OP AMP	48- 59	180	452	AM452-2M	DTL	OP AMP	35- 26
71	414	AM414A	DTL	OP AMP	35- 38	181	453	AM453-2C	DTL	OP AMP	40- 42
72	414	AM414B	DTL	OP AMP	35- 80	182	453	AM453-2M	DTL	OP AMP	40- 43
73	414	AM414M	DTL	OP AMP	35- 81	183	454	uPC454D	NECE	OP AMP	55- 54
74	415	415	OPA	OP AMP	55- 74	184	454	uPC454D	NECJ	OP AMP	55- 54
75	416	UTO416	AVA	WIDE BD AMP	60- 75	185	458	uPC458C	NECE	OP AMP	39- 49
76	417	u417B	ALGG	MISC	106- 1	186	458	uPC458C	NECJ	OP AMP	39- 49
77	418	u418B	ALGG	MISC	106- 2	187	458	uPC458D	NECE	OP AMP	23- 57
78	419	ZN419CE	FERB	SPECIAL	96- 88	188	458	uPC458D	NECJ	OP AMP	23- 57
79	420	OP420BY	PMI	OP AMP	22- 33	189	458	uPC458G	NECE	OP AMP	53- 44
80	420	OP420CY	PMI	OP AMP	22- 90	190	458	ZN458	FERB	MISC	103- 25
81	420	OP420FY	PMI	OP AMP	22- 84	191	458	ZN458A	FERB	MISC	103- 26
82	420	OP420G(A)	PMI	OP AMP	42- 75	192	458	ZN458B	FERB	MISC	103- 27
83	420	OP420GP	PMI	OP AMP	22- 91	193	459	ZN459	FERB	WIDE BD AMP	59- 28
84	420	OP420GR(A)	PMI	OP AMP	42- 78	194	459	ZN459C	FERB	WIDE BD AMP	59- 29
85	420	OP420GY	PMI	OP AMP	22- 92	195	459	ZN459CP	FERB	WIDE BD AMP	59- 30
86	420	OP420HP	PMI	OP AMP	23- 2	196	459	ZN459CT	FERB	WIDE BD AMP	59- 21
87	420	OP420HY	PMI	OP AMP	23- 3	197	459	ZN459T	FERB	WIDE BD AMP	59- 22
88	420	OP420N(A)	PMI	OP AMP	42- 73	198	460	460KF	SSE	SPECIAL	93- 33
89	420	420Z	OPA	OP AMP	55- 69	199	460	AM460-2	DTL	OP AMP	32- 93
90	420	420KF	SSE	SPECIAL	93- 29	200	460	AM460-2C	DTL	OP AMP	55- 65
91	421	OP421BY(M)	PMI	OP AMP	47- 53	201	460	AM460-2M	DTL	OP AMP	32- 94
92	421	OP421CY(M)	PMI	OP AMP	47- 56	202	460	ZN460	FERB	WIDE BD AMP	59- 16
93	421	OP421FY	PMI	OP AMP	47- 54	203	460	ZN460C	FERB	WIDE BD AMP	59- 17
94	421	OP421FY#AI	PMI	OP AMP	43- 94	204	460	ZN460CP	FERB	WIDE BD AMP	59- 18
95	421	OP421GY	PMI	OP AMP	47- 57	205	461	GPD461	AVA	WIDE BD AMP	59-107
96	421	OP421GY#AI	PMI	OP AMP	44- 6	206	462	GPD462	AVA	WIDE BD AMP	59-108
97	421	OP421HY	PMI	OP AMP	47- 60	207	462	AM462-1	DTL	OP AMP	32-108
98	421	OP421HY#AI	PMI	OP AMP	44- 16	208	462	AM462-1M	DTL	OP AMP	32-109
99	421	UTO421	AVA	WIDE BD AMP	60- 77	209	462	AM462-2	DTL	OP AMP	32-110
100	423	423	OPA	OP AMP	56- 6	210	462	AM462-2M	DTL	OP AMP	33- 1
101	423	ZN423E	FERB	SPECIAL	95- 50	211	463	GPD463	AVA	WIDE BD AMP	61- 42
102	423	ZN423T	FERB	MISC	103- 24	212	464	GPD464	AVA	WIDE BD AMP	60- 7
103	424	ZN424E	FERB	OP AMP	26- 70	213	464	AM464-2	DTL	OP AMP	56- 8
104	424	ZN424P	FERB	OP AMP	26- 71	214	464	AM464-2M	DTL	OP AMP	56- 9
105	424	ZN424T	FERB	OP AMP	26- 72	215	470	470KF	SSE	SPECIAL	93- 34
106	425	425	OPA	OP AMP	55- 70	216	470	AM470-2C	DTL	OP AMP	27- 88
107	425	425Q	OPA	OP AMP	56- 3	217	470	AM470-2M	DTL	OP AMP	27- 87
108	425	425T	OPA	OP AMP	55- 71	218	480	480KF	SSE	SPECIAL	93- 35
109	427	AM427-1A	DTL	OP AMP	55- 24	219	480	TL480CJ	TII	SPECIAL	94- 73
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1	481	TL481CNG	TII	SPECIAL	94- 83	111	510	NE510N	MULB	DIFF AMP	57- 32
2	487	TL487CJG	TII	SPECIAL	94- 70	112	510	NE510N	PHIN	DIFF AMP	57- 32
3	487	TL487CP	TII	SPECIAL	94- 71	113	510	NE510N	VALG	DIFF AMP	57- 32
4	489	TL489CP	TII	SPECIAL	94- 72	114	510	TCR510	TSC	MISC	103- 93
5	490	AM490-2A	DTL	DIFF AMP	57- 77	115	510	SE510A	MULB	RF/IF AMP	58- 26
6	490	AM490-2B	DTL	DIFF AMP	57- 75	116	510	SE510A	PHIN	RF/IF AMP	58- 26
7	490	AM490-2C	DTL	DIFF AMP	57- 74	117	510	SE510A#1	MULB	RF/IF AMP	58- 21
8	490	AM490-2M	DTL	DIFF AMP	57- 76	118	510	SE510A#1	PHIN	RF/IF AMP	58- 21
9	490	TL490CJ	TII	MISC	98- 32	119	510	SE510A#2	MULB	RF/IF AMP	58- 24
10	490	TL490CN	TII	MISC	98- 33	120	510	SE510A#2	PHIN	RF/IF AMP	58- 24
11	491	TL491CJ	TII	MISC	98- 34	121	510	SE510F	MULB	DIFF AMP	57- 25
12	491	TL491CN	TII	MISC	98- 35	122	510	SE510F	PHIN	DIFF AMP	57- 25
13	494	uA494DC	FSC	MISC	105- 33	123	510	SE510F	VALG	DIFF AMP	57- 25
14	494	uA494DM	FSC	MISC	105- 34	124	510	SE510N	MULB	DIFF AMP	57- 26
15	494	uA494PC	FSC	MISC	105- 35	125	510	SE510N	PHIN	DIFF AMP	57- 26
16	494	uPC494C	NECJ	VOLT REG	81- 28	126	510	SE510N	VALG	DIFF AMP	57- 26
17	494	uPC494G	NECJ	VOLT REG	81- 18	127	510	UTO510	AVA	WIDEBD AMP	60- 29
18	494	TL494CJ	MOTA	MISC	99- 34	128	510	UTO510R	AVA	WIDEBD AMP	60- 30
19	494	TL494CJ	TII	MISC	99- 34	129	510	TL510CJ	TII	VOLT COMP	84- 68
20	494	TL494CN	MOTA	MISC	99- 35	130	510	TL510CJG	TII	VOLT COMP	84- 69
21	494	TL494CN	TII	MISC	99- 35	131	510	TL510CN	TII	VOLT COMP	84- 70
22	494	TL494J	TII	MISC	99- 36	132	510	TL510CP	TII	VOLT COMP	84- 71
23	494	TL494IN	TII	MISC	99- 37	133	510	TL510MJ	TII	VOLT COMP	84- 47
24	494	TL494MJ	MOTA	MISC	99- 38	134	510	TL510MJG	TII	VOLT COMP	84- 48
25	494	TL494MJ	TII	MISC	99- 38	135	510	TL510MN	TII	VOLT COMP	84- 49
26	494	XR494CN	EXR	MISC	105- 42	136	510	TL510MP	TII	VOLT COMP	84- 50
27	494	XR494CP	EXR	MISC	105- 43	137	510	TL510MU	TII	VOLT COMP	84- 51
28	494	XR494M	EXR	MISC	105- 44	138	511	NE511B	MULB	DIFF AMP	57- 30
29	495	XR495CN	EXR	MISC	105- 45	139	511	NE511B	PHIN	DIFF AMP	57- 30
30	495	XR495CP	EXR	MISC	105- 46	140	511	NE511F	MULB	DIFF AMP	57- 33
31	495	XR495M	EXR	MISC	105- 47	141	511	NE511F	PHIN	DIFF AMP	57- 33
32	496	TL496CJG	TII	MISC	101- 60	142	511	NE511F	VALG	DIFF AMP	57- 33
33	496	TL496CP	TII	VOLT REG	69- 55	143	511	NE511N	MULB	DIFF AMP	57- 34
34	497	TL497ACJ	TII	MISC	99- 48	144	511	NE511N	PHIN	DIFF AMP	57- 34
35	497	TL497ACN	TII	MISC	99- 49	145	511	TCR511	TSC	MISC	103- 94
36	497	TL497AMJ	TII	MISC	99- 50	146	511	NE511N	VALG	DIFF AMP	57- 34
37	497	TL497MN	TII	VOLT REG	62- 66	147	511	SE511B	MULB	DIFF AMP	57- 27
38	500	TCR500	TSC	MISC	103- 83	148	511	SE511B	PHIN	DIFF AMP	57- 27
39	500	MA500CP	ANS	MISC	103- 62	149	511	SE511F	MULB	DIFF AMP	57- 28
40	501	NE501A	MULB	WIDEBD AMP	59- 37	150	511	SE511F	PHIN	DIFF AMP	57- 28
41	501	NE501A	PHIN	WIDEBD AMP	59- 37	151	511	SE511F	VALG	DIFF AMP	57- 28
42	501	NE501K	MULB	WIDEBD AMP	59- 38	152	511	SE511N	MULB	DIFF AMP	57- 29
43	501	NE501K	PHIN	WIDEBD AMP	59- 38	153	511	SE511N	PHIN	DIFF AMP	57- 29
44	501	TCR501	TSC	MISC	103- 84	154	511	SE511N	VALG	DIFF AMP	57- 29
45	501	SE501A	MULB	WIDEBD AMP	59- 35	155	511	UTO511	AVA	WIDEBD AMP	60- 31
46	501	SE501A	PHIN	WIDEBD AMP	59- 35	156	511	UTO511R	AVA	WIDEBD AMP	60- 32
47	501	SE501K	MULB	WIDEBD AMP	59- 36	157	512	TCR512	TSC	MISC	103- 95
48	501	SE501K	PHIN	WIDEBD AMP	59- 36	158	512	SAD512	RET	SPECIAL	97- 17
49	501	UTO501	AVA	WIDEBD AMP	60- 19	159	512	UTO512	AVA	WIDEBD AMP	60- 35
50	501	UTO501R	AVA	WIDEBD AMP	60- 24	160	512	UTO512R	AVA	WIDEBD AMP	60- 36
51	502	TCR502	TSC	MISC	103- 85	161	513	TCR513	TSC	MISC	103- 96
52	502	UDL502	AVA	MISC	103-100	162	513	UTO513	AVA	WIDEBD AMP	61- 54
53	502	UTL502	AVA	MISC	103-104	163	513	UTO513R	AVA	WIDEBD AMP	61- 55
54	502	UTO502	AVA	WIDEBD AMP	60- 20	164	514	UTO514	AVA	WIDEBD AMP	60- 59
55	502	UTO502R	AVA	WIDEBD AMP	60- 25	165	514	TL514CJ	TII	VOLT COMP	84- 72
56	503	AD503J	INL	OP AMP	40- 29	166	514	TL514CN	TII	VOLT COMP	84- 73
57	503	AD503JH	ANA	OP AMP	40- 30	167	514	TL514MJ	TII	VOLT COMP	84- 52
58	503	AD503K	INL	OP AMP	40- 17	168	514	TL514MN	TII	VOLT COMP	84- 53
59	503	AD503KH	ANA	OP AMP	40- 18	169	515	AD515JH	ANA	OP AMP	29- 9
60	503	AD503S	INL	OP AMP	40- 24	170	515	AD515KH	ANA	OP AMP	29- 5
61	503	AD503SH	ANA	OP AMP	40- 25	171	515	AD515LH	ANA	OP AMP	29- 8
62	503	TCR503	TSC	MISC	103- 86	172	515	NE515A	MULB	DIFF AMP	57- 4
63	503	UTO503	AVA	WIDEBD AMP	61- 50	173	515	NE515A	PHIN	DIFF AMP	57- 4
64	503	UTO503R	AVA	WIDEBD AMP	61- 51	174	515	NE515F	MULB	DIFF AMP	57- 8
65	504	AD504JH	ANA	OP AMP	34- 91	175	515	NE515F	PHIN	DIFF AMP	57- 8
66	504	AD504KH	ANA	OP AMP	32- 55	176	515	NE515F	VALG	DIFF AMP	57- 8
67	504	AD504LH	ANA	OP AMP	32- 53	177	515	NE515K	MULB	DIFF AMP	57- 9
68	504	AD504MH	ANA	OP AMP	27- 22	178	515	NE515K	PHIN	DIFF AMP	57- 9
69	504	AD504SH	ANA	OP AMP	54- 25	179	515	NE515K	VALG	DIFF AMP	57- 9
70	504	TCR504	TSC	MISC	103- 87	180	515	NE515N	MULB	DIFF AMP	57- 10
71	504	UTO504	AVA	WIDEBD AMP	61- 46	181	515	NE515N	PHIN	DIFF AMP	57- 10
72	504	UTO504R	AVA	WIDEBD AMP	61- 47	182	515	NE515N	VALG	DIFF AMP	57- 10
73	505	TCR505	TSC	MISC	103- 88	183	515	SE515A	MULB	DIFF AMP	57- 5
74	505	UTO505	AVA	WIDEBD AMP	60- 48	184	515	SE515A	PHIN	DIFF AMP	57- 5
75	505	UTO505R	AVA	WIDEBD AMP	60- 49	185	515	SE515F	MULB	DIFF AMP	57- 6
76	506	AD506JH	ANA	OP AMP	40- 23	186	515	SE515F	PHIN	DIFF AMP	57- 6
77	506	AD506KH	ANA	OP AMP	40- 14	187	515	SE515F	VALG	DIFF AMP	57- 6
78	506	AD506LH	ANA	OP AMP	27- 60	188	515	SE515K	MULB	DIFF AMP	57- 7
79	506	AD506SH	ANA	OP AMP	40- 22	189	515	SE515K	PHIN	DIFF AMP	57- 7
80	506	TCR506	TSC	MISC	103- 89	190	515	SE515K	VALG	DIFF AMP	57- 7
81	506	TL506CJ	TII	VOLT COMP	86- 25	191	515	UTO515	AVA	WIDEBD AMP	60- 3
82	506	TL506CN	TII	VOLT COMP	86- 26	192	515	UTO515R	AVA	WIDEBD AMP	60- 58
83	506	TL506CW	TII	VOLT COMP	86- 27	193	516	UTO516	AVA	WIDEBD AMP	60- 21
84	506	TL506MJ	TII	VOLT COMP	86- 23	194	516	UTO516R	AVA	WIDEBD AMP	60- 26
85	506	TL506MN	TII	VOLT COMP	86- 24	195	517	AD517J	ANA	OP AMP	29- 32
86	507	AD507JH	ANA	OP AMP	39- 3	196	517	AD517JH	ANA	OP AMP	34- 81
87	507	AD507KH	ANA	OP AMP	39- 44	197	517	AD517K	ANA	OP AMP	29- 12
88	507	AD507SH	ANA	OP AMP	27- 63	198	517	AD517KH	ANA	OP AMP	32- 50
89	507	TCR507	TSC	MISC	103- 90	199	517	AD517LH	ANA	OP AMP	32- 47
90	507	LC507(A)	LTIC	OP AMP	21- 23	200	517	AD517S#mil	ANA	OP AMP	29- 31
91	507	UTO507	AVA	WIDEBD AMP	60- 57	201	517	AD517SH	ANA	OP AMP	32- 51
92	508	TCR508	TSC	MISC	103- 91	202	517	UTO517	AVA	WIDEBD AMP	60- 37
93	508	UTO508	AVA	WIDEBD AMP	61- 56	203	518	AD518J	ANA	OP AMP	41- 75
94	509	AD509JH	ANA	OP AMP	38- 67	204	518	AD518JH	ANA	OP AMP	41- 80
95	509	AD509KH	ANA	OP AMP	38- 74	205	518	AD518K	ANA	OP AMP	35- 42
96	509	AD509SH	ANA	OP AMP	38- 75	206	518	AD518KH	ANA	OP AMP	40- 5
97	509	TCR509	TSC	MISC	103- 92	207	518	AD518S#mil	ANA	OP AMP	35- 43
98	510	AD510JH	ANA	OP AMP	34- 80	208	518	AD518SH#mil	ANA	OP AMP	40- 11
99	510	AD510KH	ANA	OP AMP	32- 48	209	520	TCA520B	MULB	OP AMP	20- 24
100	510	AD510LH	ANA	OP AMP	32- 46	210	520	TCA520B	PHIN	OP AMP	20- 24
101	510	AD510SH#mil	ANA	OP AMP	32- 49	211	520	TCA520B	VALG	OP AMP	20- 24
102	510	NE510A	MULB	RF/IF AMP	58- 25	212	520	TCA520D	PHIN	OP AMP	20- 25
103	510	NE510A	PHIN	RF/IF AMP	58- 25	213	520	TCA520D	VALG	OP AMP	20- 25
104	510	NE510A#1	MULB	RF/IF AMP	58- 19	214	521	SL521A	PLSB	WIDEBD AMP	59- 41
105	510	NE510A#1	PHIN	RF/IF AMP	58- 19	215	521	SL521B	PLSB	WIDEBD AMP	59- 40
106	510	NE510A#2	MULB	RF/IF AMP	58- 23	216	521	SL521C	PLSB	WIDEBD AMP	59- 42
107	510	NE510A#2	PHIN	RF/IF AMP	58- 23	217	521	AD521JD	ANA	DIFF AMP	57- 81
108	510	NE510F	MULB	DIFF AMP	57- 31	218	521	AD521K	ANA	OP AMP	32- 65
109	510	NE510F	PHIN	DIFF AMP	57- 31	219	521	AD521KD	ANA	DIFF AMP	57- 79
110	510	NE510F	VALG	DIFF AMP	57- 31	220	521	AD521LD	ANA	DIFF AMP	57- 78

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1	521	AD521S#mil	ANA	OP AMP	32- 66	111	529	NE529N	SIC	VOLT COMP	85- 86
2	521	AD521SD#mil	ANA	DIFF AMP	57- 80	112	529	NE529N	SIC	VOLT COMP	85- 86
3	521	NE521A	MULB	VOLT COMP	83- 50	113	529	SE529F	MULB	VOLT COMP	85- 79
4	521	NE521A	PHIN	VOLT COMP	83- 50	114	529	SE529F	PHIN	VOLT COMP	85- 79
5	521	NE521D	SIC	DIFF AMP	57- 38	115	529	SE529F	SIC	VOLT COMP	85- 79
6	521	NE521F	MULB	VOLT COMP	83- 51	116	529	SE529F	VALG	VOLT COMP	85- 79
7	521	NE521F	PHIN	VOLT COMP	83- 51	117	529	SE529H	PHIN	VOLT COMP	83- 57
8	521	NE521F	SIC	VOLT COMP	83- 51	118	529	SE529H	SIC	VOLT COMP	83- 57
9	521	NE521F	VALG	VOLT COMP	83- 51	119	529	SE529H	VALG	VOLT COMP	83- 57
10	521	NE521N	MULB	VOLT COMP	83- 52	120	529	SE529K	MULB	VOLT COMP	85- 80
11	521	NE521N	PHIN	VOLT COMP	83- 52	121	529	SE529K	PHIN	VOLT COMP	85- 80
12	521	NE521N	SIC	VOLT COMP	83- 52	122	529	SE529K	VALG	VOLT COMP	85- 80
13	521	NE521N	VALG	VOLT COMP	83- 52	123	529	SE529N	MULB	VOLT COMP	85- 81
14	521	SE521F	PHIN	VOLT COMP	83- 44	124	529	SE529N	PHIN	VOLT COMP	85- 81
15	521	SE521F	SIC	VOLT COMP	83- 44	125	529	SE529N	VALG	VOLT COMP	85- 81
16	521	SE521N	PHIN	VOLT COMP	83- 17	126	529	LM529CN	NSC	VOLT COMP	88- 25
17	521	AH521	ALP	WIDEBD AMP	60- 89	127	529	LM529CN	NSC	VOLT COMP	88- 26
18	521	UTO521	AVA	WIDEBD AMP	60- 40	128	530	AD530JD#1	ANA	SPECIAL	91- 40
19	521	UTO521R	AVA	WIDEBD AMP	60- 41	129	530	AD530JD#2	ANA	SPECIAL	91-103
20	522	AD522AD	ANA	DIFF AMP	57- 85	130	530	AD530JD#3	ANA	SPECIAL	92- 94
21	522	AD522BD	ANA	DIFF AMP	57- 82	131	530	AD530JH#1	ANA	SPECIAL	91- 60
22	522	AD522SD#mil	ANA	DIFF AMP	57- 83	132	530	AD530JH#2	ANA	SPECIAL	92- 5
23	522	NE522A	MULB	VOLT COMP	83- 53	133	530	AD530JH#3	ANA	SPECIAL	93- 6
24	522	NE522A	PHIN	VOLT COMP	83- 53	134	530	AD530KD#1	ANA	SPECIAL	91- 41
25	522	NE522D	SIC	DIFF AMP	57- 39	135	530	AD530KD#2	ANA	SPECIAL	91-104
26	522	NE522F	MULB	VOLT COMP	83- 54	137	530	AD530KD#3	ANA	SPECIAL	92- 95
27	522	NE522F	PHIN	VOLT COMP	83- 54	137	530	AD530KH#1	ANA	SPECIAL	91- 61
28	522	NE522F	SIC	VOLT COMP	83- 54	138	530	AD530KH#2	ANA	SPECIAL	92- 6
29	522	NE522F	VALG	VOLT COMP	83- 54	139	530	AD530KH#3	ANA	SPECIAL	93- 7
30	522	NE522N	MULB	VOLT COMP	83- 55	140	530	AD530LD#1	ANA	SPECIAL	91- 62
31	522	NE522N	PHIN	VOLT COMP	83- 55	141	530	AD530LD#2	ANA	SPECIAL	92- 7
32	522	NE522N	SIC	VOLT COMP	83- 55	142	530	AD530LD#3	ANA	SPECIAL	93- 8
33	522	NE522N	VALG	VOLT COMP	83- 55	143	530	AD530LH#1	ANA	SPECIAL	91- 63
34	522	SE522F	PHIN	VOLT COMP	83- 39	144	530	AD530LH#2	ANA	SPECIAL	92- 8
35	522	SE522F	SIC	VOLT COMP	83- 39	145	530	AD530LH#3	ANA	SPECIAL	93- 9
36	522	AH522#	ALP	WIDEBD AMP	60- 90	146	530	AD530SD#1	ANA	SPECIAL	91- 64
37	523	SL523B	FLSB	SPECIAL	90- 62	147	530	AD530SD#2	ANA	SPECIAL	92- 9
38	523	SL523C	FLSB	SPECIAL	90- 63	148	530	AD530SD#3	ANA	SPECIAL	93- 10
39	523	SL523H	FLSB	SPECIAL	90- 64	149	530	AD530SH#1	ANA	SPECIAL	91- 65
40	523	AD523JH	ANA	OP AMP	40- 32	150	530	AD530SH#2	ANA	SPECIAL	92- 10
41	523	AD523KH	ANA	OP AMP	40- 20	151	530	AD530SH#3	ANA	SPECIAL	93- 11
42	523	AD523LH	ANA	OP AMP	40- 27	152	530	NE530F	SIC	OP AMP	32- 70
43	523	UTO523	AVA	WIDEBD AMP	60- 38	153	530	NE530H	PHIN	OP AMP	32- 71
44	523	UTO523R	AVA	WIDEBD AMP	60- 39	154	530	NE530H	RTCF	OP AMP	32- 71
45	524	AD524A	ANA	SPECIAL	95- 6	155	530	NE530H	SIC	OP AMP	32- 71
46	524	AD524B	ANA	SPECIAL	95- 7	156	530	NE530H	VALG	OP AMP	32- 71
47	524	AD524C	ANA	SPECIAL	95- 8	157	530	NE530N	MULB	OP AMP	32- 72
48	524	AD524JD#ai	ANA	SPECIAL	95- 32	158	530	NE530N	PHIN	OP AMP	32- 72
49	524	AD524JN#ai	ANA	SPECIAL	95- 33	159	530	NE530N	SIC	OP AMP	32- 72
50	524	AD524KD#ai	ANA	SPECIAL	95- 34	160	530	NE530N	RTCF	OP AMP	32- 72
51	524	AD524KN#ai	ANA	SPECIAL	95- 35	161	530	NE530N	VALG	OP AMP	32- 72
52	524	AD524LD#ai	ANA	SPECIAL	95- 36	162	530	SE530H	PHIN	OP AMP	32- 72
53	524	AD524LN#ai	ANA	SPECIAL	95- 37	163	530	SE530H	RTCF	OP AMP	32- 57
54	524	AD524S	ANA	SPECIAL	95- 9	164	530	SE530H	SIC	OP AMP	32- 57
55	524	UTO524	AVA	WIDEBD AMP	60- 96	165	530	SE530H	VALG	OP AMP	32- 57
56	525	SL525C	PLSB	SPECIAL	90- 60	166	530	SE530N	MULB	OP AMP	32-105
57	525	SBV525	SIEG	MISC	106- 27	167	530	SE530N	PHIN	OP AMP	32-105
58	526	NE526A	MULB	VOLT COMP	83- 40	168	530	SE530N	RTCF	OP AMP	32-105
59	526	NE526A	PHIN	VOLT COMP	83- 40	169	530	SE530N	SIC	OP AMP	32-105
60	526	NE526K	MULB	VOLT COMP	83- 41	170	530	SE530N	VALG	OP AMP	32-105
61	526	NE526K	PHIN	VOLT COMP	83- 41	171	530	M530J	INT	SPECIAL	92- 33
62	526	SE526A	MULB	VOLT COMP	83- 42	172	530	M530K	INT	SPECIAL	92- 34
63	526	SE526A	PHIN	VOLT COMP	83- 42	173	530	M530L	INT	SPECIAL	92- 35
64	526	SE526K	MULB	VOLT COMP	83- 43	174	530	M530S	INT	SPECIAL	92- 36
65	526	SE526K	PHIN	VOLT COMP	83- 43	175	531	SL531C	PLSB	SPECIAL	90- 65
66	527	NE527D	SIC	VOLT COMP	88- 21	176	531	AD531JD#1	ANA	SPECIAL	91- 56
67	527	NE527F	MULB	VOLT COMP	85- 82	177	531	AD531JD#2	ANA	SPECIAL	93- 2
68	527	NE527F	PHIN	VOLT COMP	85- 82	178	531	AD531KD#1	ANA	SPECIAL	91- 57
69	527	NE527F	SIC	VOLT COMP	85- 82	179	531	AD531KD#2	ANA	SPECIAL	93- 3
70	527	NE527H	VALG	VOLT COMP	85- 82	180	531	AD531LD#1	ANA	SPECIAL	91- 58
71	527	NE527H	PHIN	VOLT COMP	83- 58	181	531	AD531LD#2	ANA	SPECIAL	93- 4
72	527	NE527H	SIC	VOLT COMP	83- 58	182	531	AD531SD#1	ANA	SPECIAL	91- 59
73	527	NE527H	VALG	VOLT COMP	83- 58	183	531	AD531SD#2	ANA	SPECIAL	93- 5
74	527	NE527K	MULB	VOLT COMP	85- 83	184	531	NE531FE	RTCF	OP AMP	53- 90
75	527	NE527K	PHIN	VOLT COMP	85- 83	185	531	NE531FE	SIC	OP AMP	53- 90
76	527	NE527K	VALG	VOLT COMP	85- 83	186	531	NE531H	RTCF	OP AMP	41- 8
77	527	NE527N	MULB	VOLT COMP	85- 90	187	531	NE531H	SIC	OP AMP	41- 8
78	527	NE527N	PHIN	VOLT COMP	85- 90	188	531	NE531H	MULB	OP AMP	41- 9
79	527	NE527N	SIC	VOLT COMP	85- 90	189	531	NE531H	PHIN	OP AMP	41- 9
80	527	NE527N	VALG	VOLT COMP	85- 90	190	531	NE531N	RTCF	OP AMP	41- 9
81	527	SE527F	MULB	VOLT COMP	85- 87	191	531	NE531N	SIC	OP AMP	41- 9
82	527	SE527F	PHIN	VOLT COMP	85- 87	192	531	NE531N	VALG	OP AMP	41- 9
83	527	SE527F	SIC	VOLT COMP	85- 87	193	531	NE531T	MULB	OP AMP	41- 10
84	527	SE527F	VALG	VOLT COMP	85- 87	194	531	NE531T	PHIN	OP AMP	41- 10
85	527	SE527H	PHIN	VOLT COMP	83- 56	195	531	NE531T	VALG	OP AMP	41- 10
86	527	SE527H	SIC	VOLT COMP	83- 56	196	531	NE531V	MULB	OP AMP	41- 11
87	527	SE527H	VALG	VOLT COMP	83- 56	197	531	NE531V	PHIN	OP AMP	41- 11
88	527	SE527K	MULB	VOLT COMP	85- 88	198	531	SE531FE	RTCF	OP AMP	53- 87
89	527	SE527K	PHIN	VOLT COMP	85- 88	199	531	SE531FE	SIC	OP AMP	53- 87
90	527	SE527K	VALG	VOLT COMP	85- 88	200	531	SE531H	RTCF	OP AMP	53- 88
91	527	SE527N	MULB	VOLT COMP	85- 89	201	531	SE531H	SIC	OP AMP	53- 88
92	527	SE527N	PHIN	VOLT COMP	85- 89	202	531	SE531N	RTCF	OP AMP	53- 89
93	527	SE527N	SIC	VOLT COMP	85- 89	203	531	SE531N	SIC	OP AMP	53- 89
94	527	SE527N	VALG	VOLT COMP	85- 89	204	531	SE531T	MULB	OP AMP	39- 53
95	528	AD528J	ANA	OP AMP	40- 23	205	531	SE531T	PHIN	OP AMP	39- 53
96	528	AD528K	ANA	OP AMP	40- 15	206	531	SE531T	VALG	OP AMP	39- 53
97	528	AD528S	ANA	OP AMP	40- 16	207	532	SL532C	FLSB	MISC	104- 83
98	529	NE529D	SIC	VOLT COMP	88- 22	208	532	SU532T	MULB	OP AMP	20- 16
99	529	NE529F	MULB	VOLT COMP	85- 84	209	532	SU532T	PHIN	OP AMP	20- 16
100	529	NE529F	PHIN	VOLT COMP	85- 84	210	532	SU532V	MULB	OP AMP	20- 17
101	529	NE529F	SIC	VOLT COMP	85- 84	211	532	SU532V	PHIN	OP AMP	20- 17
102	529	NE529F	VALG	VOLT COMP	85- 84	212	532	SA532FE	RTCF	OP AMP	45-100
103	529	NE529H	PHIN	VOLT COMP	83- 59	213	532	SA532FE	SIC	OP AMP	45-100
104	529	NE529H	SIC	VOLT COMP	83- 59	214	532	SA532N	MULB	OP AMP	20- 62
105	529	NE529H	VALG	VOLT COMP	83- 59	215	532	SA532N	PHIN	OP AMP	20- 62
106	529	NE529K	MULB	VOLT COMP	85- 85	216	532	SA532N	RTCF	OP AMP	20- 62
107	529	NE529K	PHIN	VOLT COMP	85- 85	217	532	SA532N	SIC	OP AMP	20- 62
108	529	NE529K	VALG	VOLT COMP	85- 85	218	532	SA532T	VALG	OP AMP	20- 62
109	529	NE529N	MULB	VOLT COMP	85- 86	219	532	SA532T	MULB	OP AMP	20- 63
110	529	NE529N	PHIN	VOLT COMP	85- 86	220	532	SA532T	PHIN	OP AMP	20- 63

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LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1	GENERIC NO.	2	MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	
1	532		SA532T		VALG	OP AMP	20- 63	111	534		AD534KH#1		ANA	SPECIAL	91- 4	
2	532		AD532J		ANA	SPECIAL	91- 27	112	534		AD534KH#2		ANA	SPECIAL	92- 71	
3	532		AD532JD#1		ANA	SPECIAL	91- 42	113	534		AD534KH#3		ANA	SPECIAL	91- 94	
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5	532		AD532JH#1		ANA	SPECIAL	91- 43	115	534		AD534LD#2		ANA	SPECIAL	92- 72	
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97	565	LM565CH	NSC	SPECIAL	93-80	207	595	TL595LI(A)	TII	MISC	105-31
98	565	LM565CN	NSC	SPECIAL	93-81	208	595	TL595IN(A)	TII	MISC	105-32
99	565	LM565H	NSC	SPECIAL	93-82	209	599	SBV599	SIEG	MISC	106-29
100	566	NE566F	MULB	SPECIAL	93-75	210	600	PIC600	UNI	MISC	98-103
101	566	NE566F	PHIN	SPECIAL	93-75	211	600	VTD600	AVA	SPECIAL	96-93
102	566	NE566F	RTCF	SPECIAL	93-75	212	601	PIC601	UNI	MISC	98-104
103	566	NE566F	SIC	SPECIAL	93-75	213	602	PIC602	UNI	MISC	98-105
104	566	NE566H	VALG	SPECIAL	93-75	214	605	OPA605HG	BUB	OP AMP	45-59
105	566	NE566H	RTCF	SPECIAL	92-31	215	605	OPA605JG	BUB	OP AMP	45-58
106	566	NE566H	SIC	SPECIAL	92-31	216	605	OPA605KG	BUB	OP AMP	45-57
107	566	NE566N	MULB	SPECIAL	93-76	217	605	AN605	MATJ	MISC	100-100
108	566	NE566N	PHIN	SPECIAL	93-76	218	610	PIC610	UNI	MISC	98-106
109	566	NE566N	RTCF	SPECIAL	93-76	219	610	SL610C	PLSB	RF/JF AMP	58-6
110	566	NE566N	SIC	SPECIAL	93-76	220	610	HX610	HAL	WIDEBD AMP	61-73

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IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE	LINE No.	1 GENERIC NO.	2 MANUFACTURER TYPE NO.	MFR. CODE	PRODUCT CLASS	PAGE & LINE
1	611	PIC611	UNI	MISC	98-107	111	709	UA709CL	TII	OP AMP	39-30
2	611	SL611C	PLSB	RF/IF AMP	58-7	112	709	UA709CN	MULB	OP AMP	39-31
3	612	PIC612	UNI	MISC	98-108	113	709	UA709CN	TII	OP AMP	39-31
4	612	SL612C	PLSB	RF/IF AMP	58-2	114	709	UA709CN	VALG	OP AMP	39-31
5	616	uPC616A	NECJ	MISC	99-52	115	709	UA709CN-14	MULB	OP AMP	39-32
6	616	uPC616C	NECJ	MISC	99-53	116	709	UA709CN-14	VALG	OP AMP	39-32
7	617	uPC617C	NECE	SPECIAL	92-28	117	709	UA709CP	TII	OP AMP	39-33
8	617	uPC617C	NECJ	SPECIAL	92-28	118	709	UA709CT	MULB	OP AMP	39-34
9	624	AD624A	ANA	SPECIAL	95-1	119	709	UA709CT	VALG	OP AMP	39-34
10	624	AD624B	ANA	SPECIAL	95-2	120	709	UA709CU	TII	OP AMP	39-35
11	624	AD624C	ANA	SPECIAL	95-3	121	709	UA709CV	MULB	OP AMP	39-36
12	624	AD624S	ANA	SPECIAL	95-4	122	709	UA709F	MULB	OP AMP	36-54
13	624	AD624S/883B(M)	ANA	SPECIAL	95-5	123	709	UA709F	VALG	OP AMP	36-54
14	625	PIC625	UNI	MISC	98-109	124	709	UA709FM	FSC	OP AMP	36-55
15	625	TBA625AX5	SGAI	VOLT REG	63-53	125	709	UA709HC	FSC	OP AMP	39-37
16	625	TBA625BX5	SGAI	VOLT REG	69-102	126	709	UA709HM	FSC	OP AMP	36-56
17	625	TBA625CX5	SGAI	VOLT REG	72-85	127	709	UA709MJ	TII	OP AMP	36-49
18	626	PIC626	UNI	MISC	98-110	128	709	UA709MJG	TII	OP AMP	36-50
19	627	PIC627	UNI	MISC	99-1	129	709	UA709ML	TII	OP AMP	36-51
20	632	AD632AD	ANA	SPECIAL	91-19	130	709	UA709MU	TII	OP AMP	36-52
21	632	AD632AH	ANA	SPECIAL	91-20	131	709	UA709N	MULB	OP AMP	36-57
22	632	AD632BD	ANA	SPECIAL	91-21	132	709	UA709N	VALG	OP AMP	36-57
23	632	AD632BH	ANA	SPECIAL	91-22	133	709	UA709N-14	MULB	OP AMP	36-58
24	632	AD632SD	ANA	SPECIAL	91-23	134	709	UA709N-14	VALG	OP AMP	36-58
25	632	AD632SH	ANA	SPECIAL	91-24	135	709	UA709PC	FSC	OP AMP	36-59
26	632	AD632TD	ANA	SPECIAL	91-25	136	709	UA709T	MULB	OP AMP	36-60
27	632	AD632TH	ANA	SPECIAL	91-26	137	709	UA709T	VALG	OP AMP	36-60
28	635	PIC635	UNI	MISC	99-2	138	709	UA709TC	FSC	OP AMP	36-61
29	636	PIC636	UNI	MISC	99-3	139	709	RC709DC	RTN	OP AMP	39-22
30	636	AD636JD	ANA	SPECIAL	93-12	140	709	RC709T	RTN	OP AMP	39-23
31	636	AD636JH	ANA	SPECIAL	93-13	141	709	RM709DC	RTN	OP AMP	35-17
32	636	AD636KD	ANA	SPECIAL	93-14	142	709	RM709T	RTN	OP AMP	35-18
33	636	AD636KH	ANA	SPECIAL	93-15	143	709	SA709CF	MULB	OP AMP	39-24
34	637	PIC637	UNI	MISC	99-4	144	709	SA709CF	PHIN	OP AMP	39-24
35	637	AD637J	ANA	SPECIAL	93-46	145	709	SA709CF	VALG	OP AMP	39-24
36	637	AD637K	ANA	SPECIAL	93-47	146	709	SA709CN	MULB	OP AMP	39-25
37	642	AD642JH	ANA	OP AMP	33-2	147	709	SA709CN	PHIN	OP AMP	39-25
38	642	AD642KH	ANA	OP AMP	32-80	148	709	SA709CN	VALG	OP AMP	39-25
39	642	AD642LH	ANA	OP AMP	32-63	149	709	SA709CN-14	MULB	OP AMP	39-26
40	642	AD642SH	ANA	OP AMP	32-99	150	709	SA709CN-14	PHIN	OP AMP	39-26
41	644	NE644N	MULB	MISC	101-86	151	709	SA709CN-14	VALG	OP AMP	39-26
42	644	NE644N	RTCF	MISC	101-86	152	709	LM709AH	NSC	OP AMP	34-15
43	644	NE644N	SIC	MISC	101-86	153	709	LM709CH	NSC	OP AMP	38-109
44	644	NE644W	MULB	MISC	101-87	154	709	LM709CN8	NSC	OP AMP	24-8
45	644	NE644W	SIC	MISC	101-87	155	709	LM709CN	NSC	OP AMP	38-110
46	644	AD644JH	ANA	OP AMP	22-16	156	709	LM709H	NSC	OP AMP	36-53
47	644	AD644KH	ANA	OP AMP	22-13	157	709	UA709AMJ	TII	OP AMP	38-33
48	644	AD644LH	ANA	OP AMP	22-12	158	709	UA709AMJU	TII	OP AMP	34-13
49	644	AD644SH	ANA	OP AMP	22-17	159	709	UA709CJ	TII	OP AMP	39-38
50	644	AD644SH/833B	ANA	OP AMP	22-18	160	709	LS709AT	SGAI	OP AMP	44-41
51	645	PIC645	UNI	MISC	99-5	161	709	LS709CB	SGAI	OP AMP	42-51
52	646	PIC646	UNI	MISC	99-6	162	709	LS709CT	SGAI	OP AMP	44-43
53	647	PIC647	UNI	MISC	99-7	163	709	LS709T	SGAI	OP AMP	44-42
54	647	AD647JH	ANA	OP AMP	22-29	164	709	MA709AMJ	TII	OP AMP	34-1
55	647	AD647KH	ANA	OP AMP	22-27	165	709	MA709AMJG	TII	OP AMP	34-2
56	647	AD647LH	ANA	OP AMP	22-26	166	709	MA709CJ	TII	OP AMP	39-10
57	647	AD647SH/883B(M)	ANA	OP AMP	22-28	167	709	MA709CJG	TII	OP AMP	39-11
58	650	AD650JN	ANA	SPECIAL	94-60	168	709	MA709CN	TII	OP AMP	39-12
59	650	AD650JQ	ANA	SPECIAL	94-61	169	709	MA709CP	TII	OP AMP	39-13
60	650	AD650KN	ANA	SPECIAL	94-62	170	709	MA709MJ	TII	OP AMP	36-43
61	650	AD650KQ	ANA	SPECIAL	94-63	171	709	MA709MP	TII	OP AMP	36-44
62	650	AD650SQ	ANA	SPECIAL	94-64	172	709	ZLD709	FERR	OP AMP	36-62
63	655	PIC655	UNI	MISC	99-8	173	709	ZLD709C	FERR	OP AMP	39-39
64	656	PIC656	UNI	MISC	99-9	174	709	ZLD709CE	FERR	OP AMP	39-40
65	657	PIC657	UNI	MISC	99-10	175	709	ZLD709CF	FERR	OP AMP	39-41
66	661	TAA661A	THEF	RF/IF AMP	58-33	176	709	ZLD709CG	FERR	OP AMP	39-42
67	661	TAA661B	THEF	RF/IF AMP	58-34	177	709	ZLD709F	FERR	OP AMP	36-63
68	661	TAA661C	THEF	RF/IF AMP	58-35	178	710	UA710CF	MULB	VOLT COMP	84-81
69	675	R675B-1	HBC	VOLT REG	69-70	179	710	UA710CN	MULB	VOLT COMP	84-82
70	675	R675C-1	HBC	VOLT REG	69-71	180	710	UA710CN-14	MULB	VOLT COMP	84-83
71	680	TCA680	MULB	OP AMP	39-58	181	710	UA710CT	MULB	VOLT COMP	84-84
72	680	TCA680	PHIN	OP AMP	39-58	182	710	UA710DC	FSC	VOLT COMP	84-90
73	680	TCA680B	MULB	OP AMP	39-59	183	710	UA710DM	FSC	VOLT COMP	84-61
74	680	TCA680B	PHIN	OP AMP	39-59	184	710	UA710F	MULB	VOLT COMP	84-37
75	680	TCA680D	PHIN	OP AMP	38-5	185	710	UA710F	VALG	VOLT COMP	84-37
76	685	AM685DL	AMD	VOLT COMP	83-68	186	710	UA710FM	FSC	VOLT COMP	84-62
77	685	AM685DM	AMD	VOLT COMP	83-70	187	710	UA710HC	FSC	VOLT COMP	84-91
78	685	AM685HL	AMD	VOLT COMP	83-69	188	710	UA710HM	FSC	VOLT COMP	84-63
79	685	AM685HM	AMD	VOLT COMP	83-71	189	710	UA710MJ	TII	VOLT COMP	84-64
80	686	AM686HC	AMD	VOLT COMP	83-73	190	710	UA710MJG	TII	VOLT COMP	84-65
81	686	AM686HM	AMD	VOLT COMP	83-72	191	710	UA710ML	TII	VOLT COMP	84-66
82	687	AM687DL	AMD	VOLT COMP	83-74	192	710	UA710MU	TII	VOLT COMP	84-67
83	700	ESM700	THEF	VOLT REG	69-69	193	710	UA710N	MULB	VOLT COMP	84-38
84	700	LC700(A)	LTC	OP AMP	20-5	194	710	UA710N	VALG	VOLT COMP	84-38
85	700	MA700	ANS	OP AMP	56-19	195	710	UA710N-14	MULB	VOLT COMP	84-39
86	702	UA702MJ	TII	OP AMP	23-104	196	710	UA710N-14	VALG	VOLT COMP	84-39
87	702	UA702ML	TII	OP AMP	23-105	197	710	UA710PC	FSC	VOLT COMP	84-92
88	702	TL702CJ	TII	OP AMP	23-108	198	710	UA710T	MULB	VOLT COMP	84-40
89	702	TL702CN	TII	OP AMP	23-109	199	710	UA710T	VALG	VOLT COMP	84-40
90	702	TL702CU	TII	OP AMP	23-110	200	710	RC710DC	RTN	VOLT COMP	84-87
91	702	TL702MJ	TII	OP AMP	23-106	201	710	RC710T	RTN	VOLT COMP	84-88
92	702	TL702MU	TII	OP AMP	23-107	202	710	RM710DC	RTN	VOLT COMP	84-43
93	707	ESM707	THEF	MISC	101-4	203	710	RM710T	RTN	VOLT COMP	84-44
94	709	UA709A	MULB	OP AMP	39-27	204	710	LM710CH	NSC	VOLT COMP	84-85
95	709	UA709AF	MULB	OP AMP	34-5	205	710	LM710CN	NSC	VOLT COMP	84-86
96	709	UA709AF	VALG	OP AMP	34-5	206	710	LM710H	NSC	VOLT COMP	84-41
97	709	UA709AFM	FSC	OP AMP	34-16	207	710	LM710N	NSC	VOLT COMP	84-42
98	709	UA709AHM	FSC	OP AMP	34-17	208	710	TL710CJ	TII	VOLT COMP	83-107
99	709	UA709AMJ	TII	OP AMP	34-6	209	710	TL710CJG	TII	VOLT COMP	83-108
100	709	UA709AMJG	TII	OP AMP	34-7	210	710	TL710CN	TII	VOLT COMP	84-1
101	709	UA709AML	TII	OP AMP	34-8	211	710	TL710CP	TII	VOLT COMP	84-2
102	709	UA709AMU	TII	OP AMP	34-9	212	710	TL710CU	TII	VOLT COMP	84-3
103	709	UA709AN	MULB	OP AMP	34-10	213	710	TL710MJ	TII	VOLT COMP	85-1
104	709	UA709AN	VALG	OP AMP	34-10	214	710	TL710MJG	TII	VOLT COMP	85-2
105	709	UA709AN-14	MULB	OP AMP	34-11	215	710	TL710MN	TII	VOLT COMP	85-3
106	709	UA709AN-14	VALG	OP AMP	34-11	216	710	TL710MP	TII	VOLT COMP	85-4
107	709	UA709AT	MULB	OP AMP	34-12	217	710	TL710MU	TII	VOLT COMP	85-5
108	709	UA709AT	VALG	OP AMP	34-12	218	711	UA711CF	MULB	VOLT COMP	85-58
109	709	UA709CJ	TII	OP AMP	39-28	219	711	UA711CJ	TII	VOLT COMP	85-46
110	709	UA709CJG	TII	OP AMP	39-29	220	711	UA711CK	MULB	VOLT COMP	85-57

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IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

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1	711		uA711CL		TII	VOLT COMP	85- 47	111	723		SA723CN		SIC	VOLT REG	77- 97
2	711		uA711CN		MULB	VOLT COMP	85- 58	112	723		SA723CN		VALG	VOLT REG	77- 97
3	711		uA711CN		TII	VOLT COMP	85- 58	113	723		LAS723		LAM	VOLT REG	78- 90
4	711		uA711CU		TII	VOLT COMP	85- 48	114	723		LAS723B		LAM	VOLT REG	80- 96
5	711		uA711DC		FSC	VOLT COMP	85- 59	115	723		LM723CH		NSC	VOLT REG	77- 88
6	711		uA711DM		FSC	VOLT COMP	85- 19	116	723		LM723CJ		NSC	VOLT REG	78- 14
7	711		uA711F		MULB	VOLT COMP	85- 20	117	723		LM723CN		NSC	VOLT REG	77- 81
8	711		uA711F		VALG	VOLT COMP	85- 20	118	723		LM723H		NSC	VOLT REG	77- 89
9	711		uA711FM		FSC	VOLT COMP	85- 21	119	723		LM723J		NSC	VOLT REG	78- 15
10	711		uA711HC		FSC	VOLT COMP	85- 60	120	723		MA723CJ		TII	VOLT REG	77- 90
11	711		uA711HM		FSC	VOLT COMP	85- 22	121	723		MA723CN		TII	VOLT REG	77- 91
12	711		uA711K		MULB	VOLT COMP	85- 23	122	723		MA723MJ		TII	VOLT REG	77- 92
13	711		uA711K		VALG	VOLT COMP	85- 23	123	723		MA723MN		TII	VOLT REG	77- 93
14	711		uA711MJ		TII	VOLT COMP	85- 6	124	723		CA723CE		BELJ	VOLT REG	78- 24
15	711		uA711ML		TII	VOLT COMP	85- 7	125	723		CA723CE		RCA	VOLT REG	78- 24
16	711		uA711MU		TII	VOLT COMP	85- 8	126	723		CA723CT		BELJ	VOLT REG	77- 86
17	711		uA711N		MULB	VOLT COMP	85- 24	127	723		CA723CT		RCA	VOLT REG	77- 86
18	711		uA711N		VALG	VOLT COMP	85- 24	128	723		CA723E		BELJ	VOLT REG	78- 25
19	711		uA711PC		FSC	VOLT COMP	85- 61	129	723		CA723E		RCA	VOLT REG	78- 25
20	711		LM711CH		NSC	VOLT COMP	85- 49	130	723		CA723T		BELJ	VOLT REG	77- 87
21	711		LM711CN		NSC	VOLT COMP	85- 50	131	723		CA723T		RCA	VOLT REG	77- 87
22	711		LM711H		NSC	VOLT COMP	85- 9	132	723		SG723CJ		SGL	VOLT REG	78- 32
23	711		MA711CJ		TII	VOLT COMP	85- 51	133	723		SG723CT		SGL	VOLT REG	77- 85
24	711		MA711CN		TII	VOLT COMP	85- 52	134	723		SG723J		SGL	VOLT REG	78- 33
25	711		MA711MJ		TII	VOLT COMP	85- 10	135	723		SG723T		SGL	VOLT REG	78- 23
26	711		TL711CJ		TII	VOLT COMP	85- 54	136	725		PM725CJ		PMI	OP AMP	35- 95
27	711		TL711CN		TII	VOLT COMP	85- 55	137	725		PM725CP		PMI	OP AMP	35- 96
28	714		uA714AHM		FSC	OP AMP	34- 54	138	725		PM725CZ		PMI	OP AMP	43- 68
29	714		uA714EHC		FSC	OP AMP	34- 64	139	725		PM725Z(M)		PMI	OP AMP	43- 41
30	714		uA714HC		FSC	OP AMP	35- 86	140	725		PM725Z#mil		PMI	OP AMP	43- 42
31	714		uA714HM		FSC	OP AMP	34- 67	141	725		uA725AFM		FSC	OP AMP	53- 74
32	714		uA714LHC		FSC	OP AMP	38- 9	142	725		uA725AHM		FSC	OP AMP	34- 78
33	714		RC714CDE		RTN	OP AMP	54- 49	143	725		uA725ARM		FSC	OP AMP	53- 75
34	714		RC714CH		RTN	OP AMP	54- 50	144	725		uA725BHC		FSC	OP AMP	34- 79
35	714		RC714DE		RTN	OP AMP	54- 27	145	725		uA725EHC		FSC	OP AMP	35- 89
36	714		RC714EDE		RTN	OP AMP	54- 28	146	725		uA725ERC		FSC	OP AMP	53- 73
37	714		RC714EH		RTN	OP AMP	54- 29	147	725		uA725HC		FSC	OP AMP	35- 90
38	714		RC714H		RTN	OP AMP	54- 30	148	725		uA725HM		FSC	OP AMP	33- 87
39	714		RC714LDE		RTN	OP AMP	54- 68	149	725		uA725RC		FSC	OP AMP	53- 71
40	714		RC714LH		RTN	OP AMP	54- 69	150	725		uA725RM		FSC	OP AMP	53- 77
41	715		uA715DC		FSC	OP AMP	41- 20	151	725		RC725DE		RTN	OP AMP	35- 97
42	715		uA715DM		FSC	OP AMP	39- 56	152	725		RC725NB		RTN	OP AMP	35- 98
43	715		uA715HC		FSC	OP AMP	41- 21	153	725		RC725T		RTN	OP AMP	35- 91
44	715		uA715HM		FSC	OP AMP	39- 57	154	725		RM725DE		RTN	OP AMP	33- 85
45	720		TBA720		PHIN	SPECIAL	92- 55	155	725		RM725T		RTN	OP AMP	33- 86
46	720		TBA720AQ		MULB	SPECIAL	92- 57	156	725		LM725AH		NSC	OP AMP	33- 81
47	720		TBA720AQ		PHIN	SPECIAL	92- 57	157	725		LM725CH		NSC	OP AMP	35- 93
48	720		TBA720Q		PHIN	SPECIAL	92- 56	158	725		LM725CN		NSC	OP AMP	35- 94
49	720		TL720CJ		TII	VOLT COMP	84- 4	159	725		LM725H		NSC	OP AMP	33- 84
50	720		TL720CN		TII	VOLT COMP	84- 5	160	726		uA726HC		FSC	MISC	100- 94
51	0723		TDA0723D		PHIN	MISC	103- 98	161	726		uA726HM		FSC	MISC	100- 95
52	723		uA723A		MULB	VOLT REG	78- 3	162	730		PIC730		UNI	MISC	99- 11
53	723		uA723A		PHIN	VOLT REG	78- 3	163	733		uA733A		MULB	WIDEED AMP	59- 89
54	723		uA723CA		MULB	VOLT REG	78- 4	164	733		uA733A		PHIN	WIDEED AMP	59- 89
55	723		uA723CA		PHIN	VOLT REG	78- 4	165	733		uA733CA		MULB	WIDEED AMP	59- 83
56	723		uA723CD		SIC	VOLT REG	62- 89	166	733		uA733CA		PHIN	WIDEED AMP	59- 83
57	723		uA723CF		MULB	VOLT REG	78- 5	167	733		uA733CK		MULB	WIDEED AMP	59- 84
58	723		uA723CF		PHIN	VOLT REG	78- 5	168	733		uA733CK		PHIN	WIDEED AMP	59- 84
59	723		uA723CF		SIC	VOLT REG	78- 5	169	733		uA733CK		VALG	WIDEED AMP	59- 84
60	723		uA723CF		VALG	VOLT REG	78- 5	170	733		uA733CL		TII	WIDEED AMP	59- 93
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62	723		uA723CJ		INL	VOLT REG	78- 34	172	733		uA733DC		INL	WIDEED AMP	59- 96
63	723		uA723CJ		TII	VOLT REG	78- 34	173	733		uA733DM		FSC	WIDEED AMP	59- 97
64	723		uA723CL		MULB	VOLT REG	78- 6	174	733		uA733DM		INL	WIDEED AMP	59- 97
65	723		uA723CL		PHIN	VOLT REG	78- 6	175	733		uA733FC		FSC	WIDEED AMP	59- 74
66	723		uA723CL		SIC	VOLT REG	78- 6	176	733		uA733FM		FSC	WIDEED AMP	59- 98
67	723		uA723CL		TII	VOLT REG	78- 6	177	733		uA733HC		FSC	WIDEED AMP	59- 99
68	723		uA723CL		VALG	VOLT REG	78- 6	178	733		uA733HC		INL	WIDEED AMP	59- 99
69	723		uA723CN		SIC	VOLT REG	78- 35	179	733		uA733HM		FSC	WIDEED AMP	59- 100
70	723		uA723CN		TII	VOLT REG	78- 35	180	733		uA733HM		INL	WIDEED AMP	59- 100
71	723		uA723CN		MULB	VOLT REG	78- 7	181	733		RC733T		RTN	WIDEED AMP	59- 101
72	723		uA723CN		PHIN	VOLT REG	78- 7	182	733		uA733K		MULB	WIDEED AMP	59- 90
73	723		uA723CN		SIC	VOLT REG	78- 7	183	733		uA733K		PHIN	WIDEED AMP	59- 90
74	723		uA723CN		VALG	VOLT REG	78- 7	184	733		uA733K		VALG	WIDEED AMP	59- 90
75	723		uA723CP		INL	VOLT REG	62- 29	185	733		uA733PC		FSC	WIDEED AMP	59- 102
76	723		uA723CT		INL	VOLT REG	62- 36	186	733		LM733CH		NSC	WIDEED AMP	59- 75
77	723		uA723CU		TII	VOLT REG	77- 82	187	733		LM733CN		NSC	WIDEED AMP	59- 76
78	723		uA723DC		FSC	VOLT REG	78- 36	188	733		LM733H		NSC	WIDEED AMP	59- 87
79	723		uA723DM		FSC	VOLT REG	78- 37	189	733		MA733CJ		TII	DIFF AMP	57- 37
80	723		uA723F		MULB	VOLT REG	78- 8	190	733		MA733CN		TII	DIFF AMP	57- 35
81	723		uA723F		PHIN	VOLT REG	78- 8	191	733		MA733MN		TII	DIFF AMP	57- 36
82	723		uA723F		SIC	VOLT REG	78- 8	192	734		uA734DC		FSC	VOLT COMP	86- 62
83	723		uA723F		VALG	VOLT REG	78- 8	193	734		uA734DM		FSC	VOLT COMP	86- 60
84	723		uA723H		SIC	VOLT REG	62- 91	194	734		uA734HC		FSC	VOLT COMP	86- 63
85	723		uA723HC		FSC	VOLT REG	78- 9	195	734		uA734HM		FSC	VOLT COMP	86- 61
86	723		uA723HM		FSC	VOLT REG	78- 10	196	738		M738		SGAI	SPECIAL	92- 84
87	723		uA723J		INL	VOLT REG	62- 30	197	739		uA739DC		FSC	OP AMP	42- 57
88	723		uA723L		MULB	VOLT REG	78- 11	198	739		uA739PC		FSC	OP AMP	42- 58
89	723		uA723L		PHIN	VOLT REG	78- 11	199	740		PIC740		UNI	MISC	99- 12
90	723		uA723L		VALG	VOLT REG	78- 11	200	740		uA740AHM		FSC	OP AMP	53- 85
91	723		uA723MJ		TII	VOLT REG	78- 38	201	740		uA740CT		INL	OP AMP	40- 76
92	723		uA723ML		TII	VOLT REG	78- 12	202	740		uA740CT		MULB	OP AMP	40- 76
93	723		uA723MU		TII	VOLT REG	77- 83	203	740		uA740CT		PHIN	OP AMP	40- 76
94	723		uA723N		MULB	VOLT REG	78- 13	204	740		uA740CT		VALG	OP AMP	40- 76
95	723		uA723N		PHIN	VOLT REG	78- 13	205	740		uA740EHC		FSC	OP AMP	53- 86
96	723		uA723N		SIC	VOLT REG	78- 13	206	740		uA740T		INL	OP AMP	36- 36
97	723		uA723N		VALG	VOLT REG	78- 13	207	740		uA740T		MULB	OP AMP	36- 36
98	723		uA723P		INL	VOLT REG	62- 31	208	740		uA740T		PHIN	OP AMP	36- 36
99	723		uA723PC		FSC	VOLT REG	78- 39	209							

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1	741	uA741AHM	FSC	OP AMP	36- 23	111	741	AD741KN	ANA	OP AMP	30- 60
2	741	uA741ARM	FSC	OP AMP	53- 83	112	741	LM741EN	NSC	OP AMP	51- 86
3	741	uA741CA	MULB	OP AMP	31- 86	113	741	AD741KN	INL	OP AMP	30- 60
4	741	uA741CA	PHIN	OP AMP	31- 86	114	741	LM741H883	NSC	OP AMP	29-100
5	741	uA741CD	RTCF	OP AMP	25- 64	115	741	AD741LH	ANA	OP AMP	30- 12
6	741	uA741CD	SIC	OP AMP	25- 64	116	741	LM741H	NSC	OP AMP	29-101
7	741	uA741CF	MULB	OP AMP	31- 87	117	741	AD741LN	ANA	OP AMP	30- 13
8	741	uA741CF	PHIN	OP AMP	31- 87	118	741	LM741J14	NSC	OP AMP	29-102
9	741	uA741CF	VALG	OP AMP	31- 87	119	741	AD741SH	ANA	OP AMP	30- 67
10	741	uA741CFE	PHIN	OP AMP	23-101	120	741	AD741SH/883B	ANA	OP AMP	22- 48
11	741	uA741CFE	RTCF	OP AMP	23-101	121	741	M741	SGAI	SPECIAL	92- 86
12	741	uA741CFE	SIC	OP AMP	23-101	122	741	MA741CJ	TII	OP AMP	31- 43
13	741	uA741CH	PHIN	OP AMP	23- 51	123	741	MA741CJG	TII	OP AMP	31- 44
14	741	uA741CJ	TII	OP AMP	31- 88	124	741	MA741CN	TII	OP AMP	31- 45
15	741	uA741CJG	TII	OP AMP	31- 89	125	741	MA741CP	TII	OP AMP	31- 46
16	741	uA741CL	TII	OP AMP	31- 90	126	741	MA741MJ	TII	OP AMP	30- 83
17	741	uA741CN	MULB	OP AMP	31- 91	127	741	MA741MJG	TII	OP AMP	33- 70
18	741	uA741CN	PHIN	OP AMP	31- 91	128	741	MA741MP	TII	OP AMP	33- 71
19	741	uA741CN	RTCF	OP AMP	31- 91	129	741	CA741CE	RCA	OP AMP	31- 30
20	741	uA741CN	SIC	OP AMP	31- 91	130	741	CA741CS	RCA	OP AMP	31- 31
21	741	uA741CN	TII	OP AMP	31- 91	131	741	CA741CT	BELI	OP AMP	31- 32
22	741	uA741CN	VALG	OP AMP	31- 91	132	741	CA741CT	RCA	OP AMP	31- 32
23	741	uA741CN-14	MULB	OP AMP	31- 92	133	741	CA741E	RCA	OP AMP	42- 76
24	741	uA741CN-14	PHIN	OP AMP	31- 92	134	741	CA741S	RCA	OP AMP	30- 72
25	741	uA741CN-14	VALG	OP AMP	31- 92	135	741	CA741T	BELI	OP AMP	30- 73
26	741	uA741CP	TII	OP AMP	31- 93	136	741	CA741T	RCA	OP AMP	30- 73
27	741	uA741CT	MULB	OP AMP	31- 94	137	741	ZLD741	FERRB	OP AMP	31- 27
28	741	uA741CT	PHIN	OP AMP	31- 94	138	741	ZLD741C	FERRB	OP AMP	32- 10
29	741	uA741CT	VALG	OP AMP	31- 94	139	741	ZLD741CE	FERRB	OP AMP	32- 11
30	741	uA741CU	TII	OP AMP	31- 95	140	741	SG741CT	RGN	OP AMP	30- 9
31	741	uA741CV	MULB	OP AMP	31- 96	141	747	RC747DB	RTN	OP AMP	37- 92
32	741	uA741CV	PHIN	OP AMP	31- 96	142	747	RC747DC	RTN	OP AMP	37- 93
33	741	uA741DC	INL	OP AMP	31- 97	143	747	RC747T	RTN	OP AMP	37- 94
34	741	uA741DM	INL	OP AMP	30-108	144	747	uA747ADM	FSC	OP AMP	51- 92
35	741	uA741EHC	FSC	OP AMP	36- 24	145	747	uA747AFM	FSC	OP AMP	55- 81
36	741	uA741ERC	FSC	OP AMP	55- 62	146	747	uA747AHM	FSC	OP AMP	51- 93
37	741	uA741ETC	FSC	OP AMP	55- 63	147	747	uA747C	RTCF	OP AMP	32- 34
38	741	uA741F	MULB	OP AMP	30-109	148	747	uA747C	SIC	OP AMP	32- 34
39	741	uA741F	PHIN	OP AMP	30-109	149	747	uA747CD	SIC	OP AMP	48- 49
40	741	uA741F	VALG	OP AMP	30-109	150	747	uA747CF	MULB	OP AMP	37- 84
41	741	uA741FC	FSC	OP AMP	53- 81	151	747	uA747CF	PHIN	OP AMP	37- 84
42	741	uA741FE	PHIN	OP AMP	23-100	152	747	uA747CF	RTCF	OP AMP	37- 84
43	741	uA741FE	RTCF	OP AMP	23-100	153	747	uA747CF	SIC	OP AMP	37- 84
44	741	uA741FE	SIC	OP AMP	23-100	154	747	uA747CF	VALG	OP AMP	37- 84
45	741	uA741FM	FSC	OP AMP	30-110	155	747	uA747CH	PHIN	OP AMP	47- 74
46	741	uA741FM	INL	OP AMP	30-110	156	747	uA747CH	RTCF	OP AMP	47- 74
47	741	uA741H	PHIN	OP AMP	23- 52	157	747	uA747CH	SIC	OP AMP	47- 74
48	741	uA741HC	FSC	OP AMP	31- 98	158	747	uA747CJ	TII	OP AMP	37- 85
49	741	uA741HC	INL	OP AMP	31- 98	159	747	uA747CK	MULB	OP AMP	37- 86
50	741	uA741HM	FSC	OP AMP	31- 1	160	747	uA747CK	PHIN	OP AMP	37- 86
51	741	uA741HM	INL	OP AMP	31- 1	161	747	uA747CK	VALG	OP AMP	37- 86
52	741	uA741MJ	TII	OP AMP	31- 2	162	747	uA747CL	TII	OP AMP	37- 87
53	741	uA741MJG	TII	OP AMP	31- 3	163	747	uA747CN	MULB	OP AMP	37- 88
54	741	uA741ML	TII	OP AMP	31- 4	164	747	uA747CN	PHIN	OP AMP	37- 88
55	741	uA741MU	TII	OP AMP	31- 5	165	747	uA747CN	RTCF	OP AMP	37- 88
56	741	uA741N	MULB	OP AMP	31- 6	166	747	uA747CN	SIC	OP AMP	37- 88
57	741	uA741N	PHIN	OP AMP	31- 6	167	747	uA747CN	TII	OP AMP	37- 88
58	741	uA741N	RTCF	OP AMP	31- 6	168	747	uA747CN	VALG	OP AMP	37- 88
59	741	uA741N	SIC	OP AMP	31- 6	169	747	uA747CW	TII	OP AMP	37- 89
60	741	uA741N	VALG	OP AMP	31- 6	170	747	uA747DC	FSC	OP AMP	31-102
61	741	uA741N-14	MULB	OP AMP	31- 7	171	747	uA747DM	FSC	OP AMP	31- 10
62	741	uA741N-14	PHIN	OP AMP	31- 7	172	747	uA747EDC	FSC	OP AMP	51- 94
63	741	uA741N-14	VALG	OP AMP	31- 7	173	747	uA747EHC	FSC	OP AMP	51- 95
64	741	uA741PC	INL	OP AMP	31- 99	174	747	uA747F	MULB	OP AMP	37- 36
65	741	uA741RC	FSC	OP AMP	31-100	175	747	uA747F	PHIN	OP AMP	37- 36
66	741	uA741RM	FSC	OP AMP	53- 82	176	747	uA747F	RTCF	OP AMP	37- 36
67	741	uA741T	MULB	OP AMP	31- 8	177	747	uA747F	SIC	OP AMP	37- 36
68	741	uA741T	PHIN	OP AMP	31- 8	178	747	uA747F	VALG	OP AMP	37- 36
69	741	uA741T	VALG	OP AMP	31- 8	179	747	uA747FC	FSC	OP AMP	41- 1
70	741	uA741TC	FSC	OP AMP	31-101	180	747	uA747FM	FSC	OP AMP	45- 46
71	741	uA741TC	INL	OP AMP	31-101	181	747	uA747H(M)	PHIN	OP AMP	54- 7
72	741	uA741V	MULB	OP AMP	31- 9	182	747	uA747H(M)	RTCF	OP AMP	54- 7
73	741	uA741V	PHIN	OP AMP	31- 9	183	747	uA747H(M)	SIC	OP AMP	54- 7
74	741	RM741DC	RTN	OP AMP	30-101	184	747	uA747HC	FSC	OP AMP	31-103
75	741	RM741DE	RTN	OP AMP	30-102	185	747	uA747HM	FSC	OP AMP	31- 11
76	741	RM741T	RTN	OP AMP	30-103	186	747	uA747K	MULB	OP AMP	37- 37
77	741	RV741NB	RTN	OP AMP	31- 72	187	747	RM747DC	RTN	OP AMP	37- 91
78	741	TBB741GA	SEIG	OP AMP	46- 15	188	747	uA747K	PHIN	OP AMP	37- 37
79	741	TBB741GG	SEIG	OP AMP	46- 16	189	747	RM747T	RTN	OP AMP	37- 27
80	741	SA741CF	MULB	OP AMP	31- 73	190	747	uA747K	VALG	OP AMP	37- 37
81	741	SA741CF	PHIN	OP AMP	31- 73	191	747	uA747MJ	TII	OP AMP	37- 38
82	741	SA741CF	VALG	OP AMP	31- 73	192	747	uA747ML	TII	OP AMP	37- 39
83	741	SA741CN	MULB	OP AMP	31- 74	193	747	uA747MW	TII	OP AMP	37- 40
84	741	SA741CN	PHIN	OP AMP	31- 74	194	747	uA747N	MULB	OP AMP	37- 41
85	741	SA741CN	SIC	OP AMP	31- 74	195	747	uA747N	PHIN	OP AMP	37- 41
86	741	SA741CN	VALG	OP AMP	31- 74	196	747	uA747N	RTCF	OP AMP	37- 41
87	741	SA741CN-14	MULB	OP AMP	31- 75	197	747	uA747N	SIC	OP AMP	37- 41
88	741	SA741CN-14	PHIN	OP AMP	31- 75	198	747	uA747N	VALG	OP AMP	37- 41
89	741	SA741CN-14	VALG	OP AMP	31- 75	199	747	uA747PC	FSC	OP AMP	31-104
90	741	SA741CT	MULB	OP AMP	31- 76	200	747	RV747DB	RTN	OP AMP	37- 75
91	741	SA741CT	PHIN	OP AMP	31- 76	201	747	SA747CF	MULB	OP AMP	37- 78
92	741	SA741CT	VALG	OP AMP	31- 76	202	747	SA747CF	PHIN	OP AMP	37- 78
93	741	LM741AH	NSC	OP AMP	51- 96	203	747	SA747CN	MULB	OP AMP	37- 79
94	741	AD741CH	ANA	OP AMP	31- 28	204	747	SA747CN	PHIN	OP AMP	37- 79
95	741	LM741AJ14	NSC	OP AMP	51- 97	205	747	SA747CN	SIC	OP AMP	37- 79
96	741	AD741CN	ANA	OP AMP	31- 29	206	747	SA747CN	VALG	OP AMP	37- 79
97	741	LM741CH	NSC	OP AMP	29-106	207	747	LM747AH	NSC	OP AMP	51- 87
98	741	AD741H	ANA	OP AMP	30- 70	208	747	LM747AJ	NSC	OP AMP	51- 88
99	741	LM741CJ14	NSC	OP AMP	29-107	209	747	LM747CH	NSC	OP AMP	31- 40
100	741	AD741JH	ANA	OP AMP	33- 62	210	747	LM747CJ	NSC	OP AMP	31- 41
101	741	LM741CJ	NSC	OP AMP	29-108	211	747	LM747CN	NSC	OP AMP	31- 42
102	741	AD741JN	ANA	OP AMP	33- 63	212	747	LM747EH	NSC	OP AMP	51- 89
103	741	LM741CN14	NSC	OP AMP	29-109	213	747	LM747EJ	NSC	OP AMP	51- 90
104	741	uPC741C	NECE	OP AMP	31- 26	214	747	LM747EN	NSC	OP AMP	51- 91
105	741	AD741KH	ANA	OP AMP	30- 59	215	747	LM747H883	NSC	OP AMP	29- 16
106	741	LM741CN	NSC	OP AMP	29-110	216	747	LM747H	NSC	OP AMP	30- 80
107	741	uPC741C	NECJ	OP AMP	31- 26	217	747	LM747J	NSC	OP AMP	30- 81
108	741	AD741KH	INL	OP AMP	42- 74	218	747	LT747	APX	OP AMP	30- 69
109	741	LM741EH	NSC	OP AMP	51- 85	219	747	LT747C	APX	OP AMP	30- 82
110	741	uPC741G	NECE	OP AMP	47- 43	220	747	M747	SGAI	SPECIAL	92- 87

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1	747	AMSS5747CK	AMD	OP AMP	30- 71	111	749	uA749DHC	FSC	OP AMP	21-108
2	747	MA747-1CJ	TII	OP AMP	33- 73	112	749	uA749DM	FSC	OP AMP	41- 32
3	747	MA747-1CN	TII	OP AMP	33- 74	113	749	uA749PC	FSC	OP AMP	41-103
4	747	MA747-1MJ	TII	OP AMP	30- 84	114	750	TCA750	MULB	MISC	103- 82
5	747	MA747CJ	TII	OP AMP	33- 75	115	750	TCA750	PHIN	MISC	103- 82
6	747	MA747CN	TII	OP AMP	33- 76	116	750	TCA750	VALG	MISC	103- 82
7	747	MA747MJ	TII	OP AMP	33- 72	117	755	PD755	HBC	SPECIAL	94- 75
8	747	CA747CE	RCA	OP AMP	37- 45	118	757	uA757DC	FSC	RF/IF AMP	58- 30
9	747	CA747CH	RCA	OP AMP	31- 33	119	757	uA757DM	FSC	RF/IF AMP	58- 29
10	747	CA747CT	RCA	OP AMP	37- 46	120	759	uA759HC	FSC	OP AMP	44- 45
11	747	CA747E	RCA	OP AMP	37- 28	121	759	uA759HM	FSC	OP AMP	44- 44
12	747	CA747G	RCA	OP AMP	37- 29	122	760	uA760DC	FSC	VOLT COMP	83- 77
13	747	CA747T	RCA	OP AMP	37- 30	123	760	uA760DM	FSC	VOLT COMP	83- 75
14	0748	TDA0748D	MULB	OP AMP	31- 85	124	760	uA760HC	FSC	VOLT COMP	83- 78
15	0748	TDA0748D	PHIN	OP AMP	31- 85	125	760	uA760HM	FSC	VOLT COMP	83- 76
16	0748	TDA0748D	VALG	OP AMP	31- 85	126	760	uA760RC	FSC	DIFF AMP	57- 49
17	748	uA748A	MULB	OP AMP	31- 12	127	760	uA760RM	FSC	DIFF AMP	57- 50
18	748	uA748A	PHIN	OP AMP	31- 12	128	760	LM760CN	NSC	VOLT COMP	83-103
19	748	uA748ADM	INL	OP AMP	50- 8	129	760	LM760CN	NSC	VOLT COMP	83-104
20	748	uA748AHM	INL	OP AMP	50- 9	130	761	TAA761	SIEG	OP AMP	29- 33
21	748	uA748CA	MULB	OP AMP	31-105	131	761	TAA761	VALG	OP AMP	29- 33
22	748	uA748CA	PHIN	OP AMP	31-105	132	761	TAA761A	SIEG	OP AMP	29- 34
23	748	uA748CD	RTCF	OP AMP	47- 75	133	761	TAA761A	VALG	OP AMP	29- 34
24	748	uA748CD	SIC	OP AMP	47- 75	134	761	TAA761GA	SIEG	OP AMP	26-110
25	748	uA748CF	MULB	OP AMP	31-106	135	761	TAA761GG	SIEG	OP AMP	27- 18
26	748	uA748CF	PHIN	OP AMP	31-106	136	761	TAA761K	SIEG	OP AMP	27- 19
27	748	uA748CF	SIC	OP AMP	31-106	137	761	TAA761S	SIEG	OP AMP	27- 1
28	748	uA748CF	VALG	OP AMP	31-106	138	761	TAA761W	SIEG	OP AMP	29- 35
29	748	uA748CFE	RTCF	OP AMP	47- 76	139	762	TAA762	SIEG	OP AMP	29- 36
30	748	uA748CFE	SIC	OP AMP	47- 76	140	762	TAA762A	SIEG	OP AMP	23- 83
31	748	uA748CJ	TII	OP AMP	31-107	141	762	TAA762G	SIEG	OP AMP	23- 84
32	748	uA748CJG	TII	OP AMP	31-108	142	765	TAA765	SIEG	OP AMP	29- 37
33	748	uA748CL	TII	OP AMP	31-109	143	765	TAA765	VALG	OP AMP	29- 37
34	748	uA748CN	RTCF	OP AMP	31-110	144	765	TAA765A	SIEG	OP AMP	29- 38
35	748	uA748CN	TII	OP AMP	31-110	145	765	TAA765GA	SIEG	OP AMP	27- 2
36	748	uA748CNZ	MULB	OP AMP	32- 1	146	765	TAA765GG	SIEG	OP AMP	27- 20
37	748	uA748CNZ	PHIN	OP AMP	32- 1	147	765	TAA765S	SIEG	OP AMP	27- 3
38	748	uA748CNZ	SIC	OP AMP	32- 1	148	765	TAA765W	SIEG	OP AMP	29- 39
39	748	uA748CNZ	VALG	OP AMP	32- 1	149	771	uA771ARC	FSC	OP AMP	48- 41
40	748	uA748CN-14	MULB	OP AMP	32- 2	150	771	uA771ARM	FSC	OP AMP	48- 42
41	748	uA748CN-14	PHIN	OP AMP	32- 2	151	771	uA771ATC	FSC	OP AMP	47- 7
42	748	uA748CN-14	VALG	OP AMP	32- 2	152	771	uA771BRC	FSC	OP AMP	48- 45
43	748	uA748CP	TII	OP AMP	32- 3	153	771	uA771BRM	FSC	OP AMP	48- 46
44	748	uA748CT	MULB	OP AMP	32- 4	154	771	uA771BTC	FSC	OP AMP	47- 9
45	748	uA748CT	PHIN	OP AMP	32- 4	155	771	uA771LRC	FSC	OP AMP	48- 52
46	748	uA748CT	VALG	OP AMP	32- 4	156	771	uA771LTC	FSC	OP AMP	47- 13
47	748	uA748CU	TII	OP AMP	32- 5	157	771	uA771RC	FSC	OP AMP	48- 50
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49	748	uA748CV	PHIN	OP AMP	32- 6	159	771	uAF771AHC	FSC	OP AMP	30- 29
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54	748	uA748F	SIC	OP AMP	31- 14	164	771	uAF771BHC	FSC	OP AMP	30- 38
55	748	uA748F	VALG	OP AMP	31- 14	165	771	uAF771BHM	FSC	OP AMP	30- 44
56	748	uA748FE	RTCF	OP AMP	54- 8	166	771	uAF771BRC	FSC	OP AMP	30- 39
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58	748	uA748FM	FSC	OP AMP	32- 8	168	771	uAF771BTC	FSC	OP AMP	30- 40
59	748	uA748HC	FSC	OP AMP	32- 9	169	771	uAF771HC	FSC	OP AMP	30- 50
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68	748	uA748N	PHIN	OP AMP	31- 20	178	772	uA772BRC	FSC	OP AMP	48- 47
69	748	uA748N	RTCF	OP AMP	31- 20	179	772	uA772BRM	FSC	OP AMP	48- 48
70	748	uA748N	SIC	OP AMP	31- 20	180	772	uA772BTC	FSC	OP AMP	47- 10
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85	748	SA748CN	PHIN	OP AMP	31- 78	195	772	uAF772BRC	FSC	OP AMP	36-106
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88	748	SA748CN-14	PHIN	OP AMP	31- 79	198	772	uAF772DC	FSC	OP AMP	37- 7
89	748	SA748CN-14	VALG	OP AMP	31- 79	199	772	uAF772HC	FSC	OP AMP	37- 8
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96	1539	MC1539G	MOTA	OP AMP	35-109	206	1624	TDD1624S	ITTG	VOLT REG	80-25
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104	2010	L2010T	SGAI	VOLT REG	69- 92	214	2208	LH2208AFZ	MULB	OP AMP	43- 63
105	2011	SSM2011	SSMM	SPECIAL	94- 69	215	2208	LH2208AFZ	PHIN	OP AMP	43- 63
106	2011	SFC2011	THEF	RF/IF AMP	58- 8	216	2208	LH2208BFZ	VALG	OP AMP	43- 63
107	2011	UTO2011	AVA	WIDEBD AMP	61- 2	217	2208	LH2208FZ	MULB	OP AMP	44- 5
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60	2308	SFC2308ADC	THEF	OP AMP	43-60	170	2526	SG2526J	SGL	MISC	104-110
61	2308	SFC2308DC	THEF	OP AMP	46-29	171	2526	HA2526N	MOTA	MISC	105-1
62	2308	SFC2308UC	THEF	VOLT REG	44-28	172	2527	HA2527	INL	OP AMP	41-94
63	2309	SFC2309	THEF	VOLT REG	65-10	173	2527	SI2527BK	SIX	MISC	105-17
64	2309	SFC2309R	THEF	VOLT REG	65-11	174	2527	XR2527AC(A)	EXR	MISC	105-53
65	2310	SFC2310	THEF	OP AMP	46-20	175	2527	XR2527AN(A)	EXR	MISC	105-54
66	2310	SFC2310DC	THEF	OP AMP	46-21	176	2527	SG2527A	SGL	MISC	105-2
67	2310	SFC2310EC	THEF	OP AMP	46-22	177	2528	SFC2528EC	THEF	VOLT COMP	83-81
68	2311	LH2311FZ	MULB	VOLT COMP	87-35	178	2528	SFC2528KM	THEF	VOLT COMP	83-82
69	2311	LH2311FZ	PHIN	VOLT COMP	87-35	179	2529	SFC2529EC	THEF	VOLT COMP	83-83
70	2311	LH2311FZ	VALG	VOLT COMP	87-35	180	2529	SFC2529KM	THEF	VOLT COMP	83-84
71	2311	SFC2311	THEF	VOLT COMP	88-33	181	2532	SG2532J	SGL	VOLT REG	80-101
72	2311	SFC2311DC	THEF	VOLT COMP	88-34	182	2532	SG2532T	SGL	VOLT REG	80-99
73	2311	SFC2311EC	THEF	VOLT COMP	88-35	183	2539	HA2539-2	HAS	OP AMP	45-109
74	2311	SFC2311UC	THEF	VOLT COMP	88-36	184	2539	HA2539-5	HAS	OP AMP	45-110
75	2311	UTO2311	AVA	WIDEBD AMP	61-22	185	2539	HA2539-8	HAS	OP AMP	46-1
76	2311	UTO2311R	AVA	WIDEBD AMP	61-23	186	2540	HA2540-2(A)	HAS	OP AMP	45-106
77	2315	SFC2315C	THEF	OP AMP	27-61	187	2540	HA2540-5(A)	HAS	OP AMP	45-107
78	2315	SFC2315DC	THEF	OP AMP	27-52	188	2540	HA2540-8	HAS	OP AMP	45-108
79	2318	SFC2318	THEF	OP AMP	52-70	189	2542	SG2542J	SGL	MISC	98-71
80	2318	SFC2318DC	THEF	OP AMP	52-72	190	2542	SG2542N	SGL	MISC	98-72
81	2318	SFC2318EC	THEF	OP AMP	41-19	191	2543	SG2543J	SGL	MISC	103-67
82	2318	SFC2318UC	THEF	OP AMP	52-41	192	2544	SG2544	SGL	MISC	103-68
83	2321	UTO2321	AVA	WIDEBD AMP	61-24	193	2549	SG2549M	SGL	MISC	103-69
84	2331	TBB2331	SIEG	OP AMP	27-53	194	2549	SG2549Y	SGL	MISC	103-70
85	2331	TBB2331B	SIEG	OP AMP	27-54	195	2567	XR2567CN	EXR	MISC	101-68
86	2332	MHW2332	MOTA	WIDEBD AMP	61-66	196	2567	XR2567CN	RTN	MISC	101-68
87	2332	TBC2332	SIEG	OP AMP	27-56	197	2567	XR2567CP	RTN	MISC	101-69
88	2335	TBE2335	SIEG	OP AMP	27-57	198	2567	XR2567CP	EXR	MISC	101-70
89	2335	TBE2335B	SIEG	OP AMP	27-58	199	2567	XR2567CP	RTN	MISC	101-70
90	2356	LF2356P	TII	OP AMP	44-47	200	2587	XR2587CPZ	RTN	MISC	101-71
91	2365	TCA2365	SIEG	OP AMP	23-83	201	2587	XR2587M	EXR	MISC	101-72
92	2376	SFC2376DC	THEF	VOLT REG	75-68	202	2587	XR2587M	RTN	MISC	101-72
93	2392	2392	MDI	OP AMP	42-45	203	2587	XR2587M	RTN	MISC	101-73
94	2400	HA2400	HAS	OP AMP	38-3	204	2600	HA1-2600-2	INL	OP AMP	34-29
95	2400	LA2400	TSAJ	VOLT COMP	86-2	205	2600	HA2-2600-2	INL	OP AMP	34-30
96	2404	HA2404	HAS	OP AMP	38-4	206	2600	HA9-2600-2	INL	OP AMP	34-31
97	2405	HA2405	HAS	OP AMP	38-6	207	2600	HA2600	HAS	OP AMP	41-41
98	2420	HA2420	HAS	OP AMP	35-47	208	2602	HA1-2602-2	INL	OP AMP	34-34
99	2425	HA2425	HAS	OP AMP	35-73	209	2602	HA2-2602-2	INL	OP AMP	34-38
100	2427	TS2427	TSI	OP AMP	55-98	210	2602	HA9-2602-2	INL	OP AMP	34-42
101	2427	TS2427-1	TSI	OP AMP	55-80	211	2602	HA2602	HAS	OP AMP	41-4
102	2427	TS2427-2	TSI	OP AMP	38-68	212	2605	HA1-2605-5	INL	OP AMP	34-35
103	2429	ULN2429A	SPR	MISC	98-38	213	2605	HA2-2605-5	INL	OP AMP	34-39
104	2430	ULN2430M	SPR	MISC	101-83	214	2605	HA9-2605-5	INL	OP AMP	34-43
105	2453	TAB2453A	SIEG	OP AMP	46-9	215	2605	HA2605	HAS	OP AMP	41-5
106	2453	TAB2453G	SIEG	OP AMP	23-85	216	2607	HA2607	INL	OP AMP	41-17
107	2453	TAE2453A	SIEG	OP AMP	46-5	217	2620	HA1-2620-2	INL	OP AMP	34-22
108	2453	TAE2453G	SIEG	OP AMP	23-81	218	2620	HA2-2620-2	INL	OP AMP	34-23
109	2458	SFC2458C	THEF	OP AMP	40-93	219	2620	HA9-2620-2	INL	OP AMP	34-24
110	2458	SFC2458M	THEF	OP AMP	36-29	220	2620	HA2620	HAS	OP AMP	41-2

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1	2622	HA1-2622-2	INL	OP AMP	34-36	111	2778	SFC2778DC	THEF	OP AMP	46-41
2	2622	HA2-2622-2	INL	OP AMP	34-40	112	2778	SFC2778EC	THEF	OP AMP	46-42
3	2622	HA9-2622-2	INL	OP AMP	34-44	113	2778	SFC2778KM	THEF	OP AMP	46-34
4	2622	HA2622	HAS	OP AMP	41-6	114	2778	SFC2778M	THEF	OP AMP	46-35
5	2625	HA1-2625-5	INL	OP AMP	34-37	115	2778	SFC2778PM	THEF	OP AMP	46-36
6	2625	HA2-2625-5	INL	OP AMP	34-41	116	2800	VTD2800	AVA	SPECIAL	97-2
7	2625	HA9-2625-5	INL	OP AMP	34-45	117	2805	SFC2805EC	THEF	VOLT REG	65-12
8	2625	HA2625	HAS	OP AMP	41-7	118	2805	SFC2805LEC	THEF	VOLT REG	66-75
9	2627	HA2627	INL	OP AMP	41-18	119	2805	SFC2805RC	THEF	VOLT REG	65-13
10	2630	HA2630	HAS	SPECIAL	90-27	120	2805	SFC2805RM	THEF	VOLT REG	66-81
11	2635	HA2635	HAS	SPECIAL	90-31	121	2806	SFC2806EC	THEF	VOLT REG	67-31
12	2640	HA2640	HAS	OP AMP	56-10	122	2806	SFC2806LEC	THEF	VOLT REG	67-97
13	2645	HA2645	HAS	OP AMP	56-11	123	2806	SFC2806RC	THEF	VOLT REG	67-32
14	2655	HA2655	HAS	OP AMP	35-7	124	2806	SFC2806RM	THEF	VOLT REG	67-98
15	2700	AD2700JD	ANA	MISC	102-27	125	2808	SFC2808EC	THEF	VOLT REG	68-80
16	2700	AD2700LD	ANA	MISC	102-28	126	2808	SFC2808LEC	THEF	VOLT REG	69-47
17	2700	AD2700SD/883B(M)	ANA	MISC	102-29	127	2808	SFC2808RC	THEF	VOLT REG	68-81
18	2700	AD2700UD/883B(M)	ANA	MISC	102-30	128	2808	SFC2808RM	THEF	VOLT REG	69-48
19	2701	AD2701JD	ANA	MISC	102-31	129	2812	SFC2812EC	THEF	VOLT REG	71-15
20	2701	AD2701LD	ANA	MISC	102-32	130	2812	SFC2812LEC	THEF	VOLT REG	71-16
21	2701	AD2701SD/883B(M)	ANA	MISC	102-33	131	2812	SFC2812RC	THEF	VOLT REG	71-17
22	2701	AD2701UD/883B(M)	ANA	MISC	102-34	132	2812	SFC2812RM	THEF	VOLT REG	71-18
23	2702	AD2702JD	ANA	MISC	102-35	133	2815	SFC2815EC	THEF	VOLT REG	73-79
24	2702	AD2702LD	ANA	MISC	102-36	134	2815	SFC2815LEC	THEF	VOLT REG	73-80
25	2702	AD2702SD/883B(M)	ANA	MISC	102-37	135	2815	SFC2815RC	THEF	VOLT REG	73-81
26	2702	AD2702UD/883B(M)	ANA	MISC	102-38	136	2815	SFC2815RM	THEF	VOLT REG	73-82
27	2709	SFC2709A	THEF	OP AMP	29-47	137	2818	SFC2818EC	THEF	VOLT REG	76-52
28	2709	SFC2709AE	THEF	OP AMP	29-49	138	2818	SFC2818LEC	THEF	VOLT REG	76-103
29	2709	SFC2709AP	THEF	OP AMP	34-3	139	2818	SFC2818RC	THEF	VOLT REG	76-53
30	2709	SFC2709APM	THEF	OP AMP	41-56	140	2818	SFC2818RM	THEF	VOLT REG	76-54
31	2709	SFC2709C	THEF	OP AMP	29-93	141	2820	SFC2820LEC	THEF	VOLT REG	79-32
32	2709	SFC2709DC	THEF	OP AMP	38-107	142	2824	SFC2824EC	THEF	VOLT REG	80-23
33	2709	SFC2709EC	THEF	OP AMP	38-108	143	2824	SFC2824LEC	THEF	VOLT REG	80-94
34	2709	SFC2709EM	THEF	OP AMP	36-47	144	2824	SFC2824RC	THEF	VOLT REG	80-24
35	2709	SFC2709ET	THEF	OP AMP	39-1	145	2824	SFC2824RM	THEF	VOLT REG	80-95
36	2709	SFC2709JM	THEF	OP AMP	41-57	146	2840	UC2840	UNI	MISC	99-40
37	2709	SFC2709KM	THEF	OP AMP	41-58	147	2861	SFC2861AC	THEF	OP AMP	56-23
38	2709	SFC2709M	THEF	OP AMP	29-94	148	2861	SFC2861ADC	THEF	OP AMP	56-24
39	2709	SFC2709PM	THEF	OP AMP	36-48	149	2861	SFC2861AM	THEF	OP AMP	56-22
40	2709	SFC2709T	THEF	OP AMP	39-2	150	2861	SFC2861BC	THEF	OP AMP	56-14
41	2710	AD2710KN	ANA	SPECIAL	96-28	151	2861	SFC2861BDC	THEF	OP AMP	56-15
42	2710	AD2710LN	ANA	SPECIAL	96-29	152	2861	SFC2861BM	THEF	OP AMP	56-13
43	2710	SFC2710C	THEF	VOLT COMP	84-7	153	2861	SFC2861C	THEF	OP AMP	25-35
44	2710	SFC2710EC	THEF	VOLT COMP	84-89	154	2861	SFC2861DC	THEF	OP AMP	25-36
45	2710	SFC2710EM	THEF	VOLT COMP	84-45	155	2861	SFC2861DT	THEF	OP AMP	25-37
46	2710	SFC2710KM	THEF	VOLT COMP	83-85	156	2861	SFC2861M	THEF	OP AMP	25-38
47	2710	SFC2710M	THEF	VOLT COMP	84-6	157	2861	SFC2861PM	THEF	OP AMP	25-39
48	2710	SFC2710PM	THEF	VOLT COMP	84-46	158	2861	SFC2861T	THEF	OP AMP	25-40
49	2711	SFC2711C	THEF	VOLT COMP	84-8	159	2900	LM2900J	NSC	OP AMP	23-59
50	2711	SFC2711EC	THEF	VOLT COMP	85-53	160	2900	LM2900J	TII	OP AMP	23-59
51	2711	SFC2711EM	THEF	VOLT COMP	85-13	161	2900	LM2900N	NSC	OP AMP	23-61
52	2711	SFC2711M	THEF	VOLT COMP	84-9	162	2900	LM2900N	RTN	OP AMP	23-61
53	2711	SFC2711PM	THEF	VOLT COMP	85-14	163	2900	LM2900N	TII	OP AMP	23-61
54	2712	AD2712KN	ANA	SPECIAL	96-30	164	2901	uA2901DC	FSC	VOLT COMP	82-39
55	2712	AD2712LN	ANA	SPECIAL	96-31	165	2901	uA2901FC	FSC	VOLT COMP	82-19
56	2720	HA2720	HAS	OP AMP	27-103	166	2901	TDF2901DP	THEF	VOLT COMP	88-98
57	2720	AD2720CH(M)	ANA	SPECIAL	96-54	167	2901	LM2901F	MULB	VOLT COMP	82-110
58	2720	AD2720SH/883B(M)	ANA	SPECIAL	96-55	168	2901	LM2901F	PHIN	VOLT COMP	82-110
59	2720	AD2720TH/883B(M)	ANA	SPECIAL	96-56	169	2901	LM2901F	SIC	VOLT COMP	82-110
60	2723	SFC2723C	THEF	VOLT REG	77-98	170	2901	LM2901F	VALG	VOLT COMP	82-110
61	2723	SFC2723EC	THEF	VOLT REG	78-21	171	2901	LM2901J	TII	VOLT COMP	82-77
62	2723	SFC2723EM	THEF	VOLT REG	78-22	172	2901	LM2901JZ	NSC	VOLT COMP	82-34
63	2723	SFC2723JM	THEF	VOLT REG	62-110	173	2901	LM2901N	NSC	VOLT COMP	82-2
64	2723	SFC2723KM	THEF	VOLT REG	63-1	174	2901	LM2901N	PHIN	VOLT COMP	82-2
65	2723	SFC2723M	THEF	VOLT REG	78-1	175	2901	LM2901N	RTN	VOLT COMP	82-2
66	2723	SFC2723UC	THEF	VOLT REG	62-105	176	2901	LM2901N	TII	VOLT COMP	82-2
67	2731	SGL2731(A)	SGL	MISC	105-12	177	2901	LM2901Nz	MULB	VOLT COMP	83-1
68	2731	SG2731(A)	SGL	MISC	105-3	178	2901	LM2901Nz	SIC	VOLT COMP	83-1
69	2740	HA2740-2(A)	HAS	OP AMP	55-66	179	2901	LM2901Nz	VALG	VOLT COMP	83-1
70	2740	HA2740-5(A)	HAS	OP AMP	55-67	180	2902	uA2902DV	FSC	OP AMP	55-102
71	2741	SFC2741C	THEF	OP AMP	30-2	181	2902	uA2902PC	FSC	OP AMP	55-103
72	2741	SFC2741DC	THEF	OP AMP	30-3	182	2902	uA2902PV	FSC	OP AMP	55-104
73	2741	SFC2741DT	THEF	OP AMP	31-80	183	2902	TDF2902DP	THEF	OP AMP	26-104
74	2741	SFC2741EC	THEF	OP AMP	30-4	184	2902	TDF2902FP	THEF	OP AMP	26-103
75	2741	SFC2741EM	THEF	OP AMP	29-103	185	2902	LM2902J	RTN	OP AMP	20-102
76	2741	SFC2741GC	THEF	OP AMP	40-34	186	2902	LM2902J	TII	OP AMP	20-102
77	2741	SFC2741GM	THEF	OP AMP	42-79	187	2902	LM2902Jz	NSC	OP AMP	21-14
78	2741	SFC2741KM	THEF	OP AMP	42-80	188	2902	LM2902N	MOTA	OP AMP	20-10
79	2741	SFC2741M	THEF	OP AMP	29-104	189	2902	LM2902N	NSC	OP AMP	20-10
80	2741	SFC2741PM	THEF	OP AMP	29-105	190	2902	LM2902N	RTN	OP AMP	20-10
81	2741	SFC2741T	THEF	OP AMP	42-84	191	2902	LM2902N	TII	OP AMP	20-10
82	2741	SFC2741UC	THEF	OP AMP	40-35	192	2903	uA2903RC	FSC	VOLT COMP	83-28
83	2747	SFC2747C	THEF	OP AMP	31-81	193	2903	uA2903TC	FSC	VOLT COMP	83-29
84	2747	SFC2747EC	THEF	OP AMP	31-82	194	2903	TDF2903DP	THEF	VOLT COMP	89-10
85	2747	SFC2747JM	THEF	OP AMP	45-7	195	2903	LM2903FE	SIC	VOLT COMP	88-96
86	2747	SFC2747KM	THEF	OP AMP	30-104	196	2903	LM2903H	SIC	VOLT COMP	88-97
87	2747	SFC2747M	THEF	OP AMP	30-105	197	2903	LM2903JG	TII	VOLT COMP	82-35
88	2748	SFC2748C	THEF	OP AMP	30-5	198	2903	LM2903N	MOTA	VOLT COMP	82-36
89	2748	SFC2748DC	THEF	OP AMP	30-6	199	2903	LM2903N	MULB	VOLT COMP	82-36
90	2748	SFC2748GC	THEF	OP AMP	42-85	200	2903	LM2903N	NSC	VOLT COMP	82-36
91	2748	SFC2748M	THEF	OP AMP	30-7	201	2903	LM2903N	SIC	VOLT COMP	82-36
92	2748	SFC2748PM	THEF	OP AMP	30-8	202	2903	LM2903N	VALG	VOLT COMP	82-36
93	2761	TA2761	SIEG	OP AMP	28-109	203	2903	LM2903P	TII	VOLT COMP	82-37
94	2761	TA2761A	SIEG	OP AMP	28-110	204	2903	LM2903T	MULB	VOLT COMP	82-38
95	2761	SFC2761C	THEF	OP AMP	36-5	205	2903	LM2903T	PHIN	VOLT COMP	82-38
96	2761	SFC2761DC	THEF	OP AMP	36-6	206	2903	LM2903T	VALG	VOLT COMP	82-38
97	2761	SFC2761M	THEF	OP AMP	46-54	207	2904	LM2904H	MOTA	OP AMP	20-77
98	2761	SFC2761PM	THEF	OP AMP	46-55	208	2904	LM2904J	MOTA	OP AMP	20-78
99	2761	SFC2761T	THEF	OP AMP	46-56	209	2904	LM2904JG	TII	OP AMP	20-40
100	2762	TA2762	SIEG	OP AMP	29-1	210	2904	LM2904N	NSC	OP AMP	21-15
101	2765	TA2765	SIEG	OP AMP	29-2	211	2904	LM2904Nz	MOTA	OP AMP	20-79
102	2765	TA2765A	SIEG	OP AMP	29-3	212	2904	LM2904P	TII	OP AMP	20-41
103	2776	SFC2776C	THEF	OP AMP	46-37	213	2905	TDB2905ACM	THEF	VOLT REG	66-62
104	2776	SFC2776DC	THEF	OP AMP	46-38	214	2905	TDB2905AKM	THEF	VOLT REG	66-68
105	2776	SFC2776EC	THEF	OP AMP	46-39	215	2905	TDB2905ASP	THEF	VOLT REG	66-69
106	2776	SFC2776EM	THEF	OP AMP	46-31	216	2905	TDB2905CM	THEF	VOLT REG	64-9
107	2776	SFC2776M	THEF	OP AMP	46-32	217	2905	TDB2905KM	THEF	VOLT REG	64-32
108	2776	SFC2776PM	THEF	OP AMP	46-33	218	2905	TDB2905SP	THEF	VOLT REG	64-33
109	2776	SFC2776UC	THEF	OP AMP	41-95	219	2905	TDC2905ACM	THEF	VOLT REG	66-63
110	2778	SFC2778C	THEF	OP AMP	46-40	220	2905	TDC2905AKM	THEF	VOLT REG	66-70

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IN ORDER OF: (1)GENERIC NO. (2)MFR TYPE NO.

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2	2905	TDC2905KM	THEF	VOLT REG	64- 34	112	3059	CA3059	RCA	MISC	101- 77
3	2907	CS2907DB	CHE	SPECIAL	93- 22	113	3059	CA3059H	RCA	MISC	101- 78
4	2907	LM2907J	NSC	SPECIAL	93- 16	114	3060	CA3060	RCA	OP AMP	22- 7
5	2907	LM2907N8	NSC	SPECIAL	93- 17	115	3060	CA3060AD	RCA	OP AMP	33-101
6	2907	LM2907N	NSC	SPECIAL	93- 18	116	3060	CA3060BD	RCA	OP AMP	33-102
7	2908	LM2908J	HAS	OP AMP	48- 71	117	3060	CA3060D	RCA	OP AMP	21-105
8	2908	LM2908N	HAS	OP AMP	48- 72	118	3060	CA3060E	RCA	OP AMP	33-103
9	2912	TDB2912CM	THEF	VOLT REG	71-103	119	3060	CA3060H	RCA	OP AMP	22- 8
10	2912	TDB2912KM	THEF	VOLT REG	72- 25	120	3075	UGN3075T	SPR	MISC	106- 46
11	2912	TDB2912SP	THEF	VOLT REG	72- 26	121	3075	UGN3075U	SPR	MISC	106- 47
12	2912	TDC2912CM	THEF	VOLT REG	71-104	122	3075	UGS3075T	SPR	MISC	106- 65
13	2912	TDC2912KM	THEF	VOLT REG	72- 27	123	3075	UGS3075U	SPR	MISC	106- 66
14	2915	TDB2915CM	THEF	VOLT REG	75- 19	124	3076	UGN3076T	SPR	MISC	106- 48
15	2915	TDB2915KM	THEF	VOLT REG	75- 32	125	3076	UGN3076U	SPR	MISC	106- 49
16	2915	TDB2915SP	THEF	VOLT REG	75- 33	126	3076	UGS3076T	SPR	MISC	106- 67
17	2915	TDC2915CM	THEF	VOLT REG	75- 20	127	3076	UGS3076U	SPR	MISC	106- 68
18	2915	TDC2915KM	THEF	VOLT REG	75- 34	128	3078	RC3078NB	RTN	OP AMP	21- 94
19	2917	CS2917-1D14	CHE	SPECIAL	93- 26	129	3078	RC3078T	RTN	OP AMP	21- 95
20	2917	CS2917D8	CHE	SPECIAL	93- 27	130	3078	RM3078AT	RTN	OP AMP	21- 61
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22	2917	LM2917N8	NSC	SPECIAL	93- 20	132	3078	CA3078AS	RCA	OP AMP	32- 31
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105	3420	MC3420P	MOTA	MISC	98-98	215	3523	MC3523U	MOTA	MISC	99-109
106	3420	3420	OEI	MISC	106-70	216	3523	MC3523U	TII	MISC	99-109
107	3420	CA3420AE(A)	RCA	OP AMP	55-3	217	3523	3523J	BUB	OP AMP	40-21
108	3420	CA3420AH(A)	RCA	OP AMP	55-4	218	3523	3523K	BUB	OP AMP	40-12
109	3420	CA3420AS(A)	RCA	OP AMP	55-5	219	3523	3523L	BUB	OP AMP	40-13
110	3420	CA3420AT(A)	RCA	OP AMP	55-6	220	3523	SG3523AM	SGL	MISC	98-77

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1	3523	SG3523AY	SGL	MISC	98-78	111	3752	MB3752M	FCAJ	VOLT REG	77-94
2	3523	SG3523M	SGL	MISC	98-79	112	3756	MB3756M	FCAJ	MISC	101-37
3	3523	SG3523Y	SGL	MISC	98-80	113	3759	MB3759C	FCAJ	MISC	98-95
4	3524	MC3524AL	MOTA	VOLT COMP	89-22	114	3759	MB3759M	FCAJ	MISC	98-96
5	3524	S3524J	TII	MISC	104-98	115	3760	MB3760C	FCAJ	MISC	99-32
6	3524	LM3524J	NSC	MISC	101-25	116	3760	MB3760M	FCAJ	MISC	99-33
7	3524	LM3524N	NSC	MISC	101-26	117	3761	MB3761M	FCAJ	MISC	98-52
8	3524	UC3524J	UNI	MISC	105-40	118	3800	LAS3800	LAM	VOLT REG	81-26
9	3524	UC3524N	UNI	MISC	105-41	119	3800	VTD3800	AVA	SPECIAL	97-3
10	3524	XR3524CN	EXR	MISC	99-45	120	3802	3802	DMC	SPECIAL	94-48
11	3524	XR3524CP	EXR	MISC	99-46	121	3803	3803	DMC	SPECIAL	94-49
12	3524	CA3524E	RCA	MISC	104-89	122	3804	3804	DMC	SPECIAL	94-50
13	3524	CA3524H	RCA	MISC	104-90	123	3805	3805	DMC	SPECIAL	94-51
14	3524	SG3524BJ	SGL	MISC	100-91	124	3806	3806	DMC	SPECIAL	94-52
15	3524	SG3524BN	SGL	MISC	100-92	125	3807	3807	DMC	SPECIAL	94-53
16	3524	SG3524F	SIC	MISC	105-4	126	3810	3810	DMC	SPECIAL	94-54
17	3524	SG3524N	SIC	MISC	105-5	127	3811	3811	DMC	SPECIAL	94-55
18	3525	MC3525AU	MOTA	MISC	99-110	128	3812	3812	DMC	SPECIAL	94-56
19	3525	MC3525U	MOTA	MISC	100-1	129	3820	LAS3820	LAM	MISC	99-58
20	3525	SI3525BK	SIX	MISC	105-18	130	3820	LAS3820P	LAM	MISC	99-59
21	3525	XR3525AC(A)	EXR	MISC	105-55	131	3840	LAS3840	LAM	MISC	99-60
22	3525	XR3525AN(A)	EXR	MISC	105-56	132	3840	LAS3840P	LAM	MISC	99-61
23	3525	SG3525A	SGL	MISC	105-6	133	3840	UC3840	UNI	MISC	99-41
24	3526	S3526A-P(A)	AMI	MISC	104-81	134	3900	LM3900J	TII	OP AMP	23-60
25	3526	S3526B-P(A)	AMI	MISC	104-82	135	3900	LM3900N	NSC	OP AMP	23-62
26	3526	SG3526J	MOTA	MISC	105-7	136	3900	LM3900N	RTN	OP AMP	23-62
27	3526	SG3526J	SGL	MISC	105-7	137	3900	LM3900N	RTN	OP AMP	23-62
28	3526	SG3526N	MOTA	MISC	105-8	138	3905	LAS3905	LAM	VOLT REG	64-37
29	3526	SG3526N	SGL	MISC	105-8	139	3905	LAS3905K	LAM	VOLT REG	64-38
30	3527	SI3527BK	SIX	MISC	105-19	140	3909	LM3909N	NSC	SPECIAL	92-54
31	3527	3527AM	BUB	OP AMP	29-91	141	3911	uPC3911C	NECJ	MISC	99-54
32	3527	3527BM	BUB	OP AMP	29-90	142	3911	LM3911N	NSC	MISC	101-27
33	3527	3527CM	BUB	OP AMP	29-89	143	3999	LM3999Z	NSC	MISC	102-68
34	3527	XR3527AC(A)	EXR	MISC	105-57	144	4001	UAA4001DP	THEF	MISC	99-51
35	3527	XR3527AN(A)	EXR	MISC	105-58	145	4002	UAA4002DP(A)	THEF	MISC	99-93
36	3527	SG3527A	SGL	MISC	105-9	146	4003	UAA4003DP(A)	THEF	MISC	99-25
37	3528	3528AM	BUB	OP AMP	28-88	147	4004	UAA4004DP	THEF	MISC	105-101
38	3528	3528BM	BUB	OP AMP	28-80	148	4006	UAA4006DP(A)	THEF	MISC	99-94
39	3528	3528CM	BUB	OP AMP	28-81	149	4006	UAA4006SP(A)	THEF	MISC	99-95
40	3532	SG3532J	SGL	VOLT REG	78-100	150	4007	UAA4007P(A)	THEF	MISC	105-102
41	3532	SG3532T	SGL	VOLT REG	78-93	151	4008	UAA4008P(A)	THEF	MISC	105-103
42	3542	SG3542N	SGL	MISC	98-82	152	4010	4010Z	MDI	SPECIAL	90-3
43	3542	3542J	BUB	OP AMP	52-6	153	4012	4012	MDI	SPECIAL	92-65
44	3542	3542S	BUB	OP AMP	52-7	154	4013	AH4013	ALP	WIDEBD AMP	61-74
45	3542	SG3542J	SGL	MISC	98-81	155	4077	AH4077	ALP	WIDEBD AMP	61-75
46	3543	SG3543J	SGL	MISC	98-83	156	4081	uPC4081C	NECE	OP AMP	47-23
47	3543	XR3543N(A)	EXR	MISC	103-108	157	4081	uPC4081C	NECJ	OP AMP	47-23
48	3544	SG3544J	SGL	MISC	103-71	158	4082	uPC4082C	NECE	OP AMP	47-24
49	3549	SG3549M	SGL	MISC	103-72	159	4082	uPC4082C	NECJ	OP AMP	47-24
50	3549	SG3549Y	SGL	MISC	103-73	160	4084	uPC4084C	NECE	OP AMP	48-32
51	3550	3550J	BUB	OP AMP	42-5	161	4084	uPC4084C	NECJ	OP AMP	48-32
52	3550	3550K	BUB	OP AMP	42-6	162	4096	SAD4096	RET	SPECIAL	97-19
53	3550	3550S	BUB	OP AMP	42-7	163	4131	RC4131NB	RTN	OP AMP	28-100
54	3551	3551J	BUB	OP AMP	42-8	164	4131	RC4131T	RTN	OP AMP	29-13
55	3551	3551S	BUB	OP AMP	42-9	165	4131	RM4131T	RTN	OP AMP	28-101
56	3553	3553AM	BUB	DIFF AMP	57-84	166	4132	RC4132NB	RTN	OP AMP	27-67
57	3554	3554AM	BUB	OP AMP	45-55	167	4132	RC4132T	RTN	OP AMP	27-69
58	3554	3554BM	BUB	OP AMP	45-53	168	4132	RM4132DE	RTN	OP AMP	27-70
59	3554	3554CM	BUB	OP AMP	25-20	169	4132	RM4132T	RTN	OP AMP	27-68
60	3554	3554SM	BUB	OP AMP	45-54	170	4136	RC4136DB	RTN	OP AMP	41-12
61	3554	AD3554AH	ANA	WIDEBD AMP	61-85	171	4136	RC4136DC	RTN	OP AMP	41-13
62	3554	AD3554BH	ANA	WIDEBD AMP	61-86	172	4136	RC4136J	TII	OP AMP	42-32
63	3554	AD3554SH#mil	ANA	WIDEBD AMP	61-87	173	4136	RC4136N	TII	OP AMP	42-33
64	3554	TP3554D	TPN	WIDEBD AMP	61-82	174	4136	RM4136CJ	RTN	OP AMP	42-29
65	3554	TP3554D-80	TPN	WIDEBD AMP	61-83	175	4136	RM4136DC	RTN	OP AMP	41-3
66	3554	TP3554D-83	TPN	WIDEBD AMP	61-84	176	4136	RM4136J	TII	OP AMP	42-30
67	3558	MC3558G	MOTA	OP AMP	29-29	177	4138	RV4136DB	RTN	OP AMP	42-34
68	3558	MC3558U	MOTA	OP AMP	29-30	178	4138	RV4136DC	RTN	OP AMP	42-35
69	3571	3571AM	BUB	OP AMP	56-1	179	4136	MP4136CY	MPS	OP AMP	24-9
70	3572	3572AM	BUB	OP AMP	56-2	180	4136	MP4136P	MPS	OP AMP	26-20
71	3573	3573AM	BUB	OP AMP	26-107	181	4136	MP4136PC	MPS	OP AMP	24-10
72	3580	SI-3580M	SAKJ	VOLT REG	69-93	182	4136	MP4136Y	MPS	OP AMP	26-21
73	3580	3580J	BUB	OP AMP	55-109	183	4136	uA4136DC	FSC	OP AMP	42-36
74	3580	3580JM	BUB	OP AMP	55-110	184	4136	uA4136DM	FSC	OP AMP	42-31
75	3581	3581J	BUB	OP AMP	56-29	185	4136	uA4136PC	FSC	OP AMP	42-37
76	3581	3581JM	BUB	OP AMP	56-30	186	4136	XR4136CN	EXR	OP AMP	45-29
77	3582	3582J	BUB	OP AMP	56-35	187	4136	XR4136CP	EXR	OP AMP	44-67
78	3582	3582JM	BUB	OP AMP	56-36	188	4136	XR4136M	EXR	OP AMP	45-25
79	3583	3583AM	BUB	OP AMP	56-42	189	4151	RC4151DE	RTN	SPECIAL	94-6
80	3583	3583JM	BUB	OP AMP	56-43	190	4151	RC4151NB	RTN	SPECIAL	94-7
81	3584	3584JM	BUB	OP AMP	56-37	191	4151	RC4151T	RTN	SPECIAL	94-8
82	3600	UGN3600M	SPR	MISC	106-55	192	4151	RM4151DE	RTN	SPECIAL	94-9
83	3601	UGN3601M	SPR	MISC	106-56	193	4151	RM4151T	RTN	SPECIAL	94-10
84	3602	MB3602C	FCAJ	OP AMP	39-14	194	4151	RV4151DE	RTN	SPECIAL	94-11
85	3602	MB3602M	FCAJ	OP AMP	39-15	195	4151	RV4151NB	RTN	SPECIAL	94-12
86	3603	MB3603C	FCAJ	OP AMP	32-12	196	4152	RC4152DE	RTN	SPECIAL	93-109
87	3603	MB3603M	FCAJ	OP AMP	32-13	197	4152	RC4152NB	RTN	SPECIAL	93-110
88	3604	UGN3604M	SPR	MISC	106-57	198	4152	RC4152T	RTN	SPECIAL	94-1
89	3604	MB3604C	FCAJ	OP AMP	24-1	199	4152	RM4152DE	RTN	SPECIAL	94-2
90	3604	MB3604M	FCAJ	OP AMP	24-2	200	4152	RM4152T	RTN	SPECIAL	94-3
91	3605	UGN3605M	SPR	MISC	106-58	201	4152	RV4152DE	RTN	SPECIAL	94-4
92	3607	MB3607C	FCAJ	OP AMP	37-47	202	4152	RV4152NB	RTN	SPECIAL	94-5
93	3607	MB3607M	FCAJ	OP AMP	37-48	203	4153	RC4153DB	RTN	SPECIAL	94-25
94	3607	MB3607PF	FCAJ	OP AMP	37-49	204	4153	RM4153DC	RTN	SPECIAL	94-26
95	3608	MB3608C	FCAJ	OP AMP	37-50	205	4153	RV4153DB	RTN	SPECIAL	94-27
96	3608	MB3608M	FCAJ	OP AMP	37-51	206	4153	RV4153DC	RTN	SPECIAL	94-28
97	3608	MB3608PF	FCAJ	OP AMP	37-52	207	4156	RC4156DB	RTN	OP AMP	39-92
98	3609	MB3609C	FCAJ	OP AMP	32-14	208	4156	RC4156DC	RTN	OP AMP	39-93
99	3609	MB3609M	FCAJ	OP AMP	32-15	209	4156	RM4156DC	RTN	OP AMP	36-3
100	3612	MB3612C	FCAJ	OP AMP	39-16	210	4156	RV4156DB	RTN	OP AMP	39-77
101	3612	MB3612M	FCAJ	OP AMP	39-17	211	4156	RV4156DC	RTN	OP AMP	39-78
102	3614	MB3614C	FCAJ	OP AMP	20-103	212	4157	RC4157DB	RTN	OP AMP	39-94
103	3614	MB3614M	FCAJ	OP AMP	20-104	213	4157	RC4157DC	RTN	OP AMP	39-95
104	3615	MB3615M	BUB	OP AMP	22-52	214	4157	RM4157DC	RTN	OP AMP	36-4
105	3627	3627AM	BUB	DIFF AMP	57-71	215	4157	RV4157DC	RTN	OP AMP	39-96
106	3627	3627BM	BUB	DIFF AMP	57-70	216	4157	RV4157DC	RTN	OP AMP	39-97
107	3700	LAS3700	LAM	VOLT REG	72-35	217	4191	RC4191DE	RTN	VOLT REG	81-4
108	3731	SG3731(A)	SGL	MISC	105-10	218	4192	RC4192DE	RTN	VOLT REG	81-5
109	3731	SG3731(A)	SGL	MISC	105-13	219	4192	RC4192NB	RTN	VOLT REG	81-6
110	3752	MB3752C	FCAJ	VOLT REG	78-29	220	4193	RC4193DE	RTN	VOLT REG	79-57

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1	4193	RC4193NB	RTN	VOLT REG	79-58	111	4558	MC4558NCU	MOTA	OP AMP	35-66
2	4194	SG4194CJ	SGL	VOLT REG	75-70	112	4558	MC4558NG	MOTA	OP AMP	35-67
3	4194	SG4194CR	SGL	VOLT REG	75-71	113	4558	MC4558NU	MOTA	OP AMP	35-68
4	4194	SG4194J	SGL	VOLT REG	79-36	114	4558	MC4558U	MOTA	OP AMP	35-69
5	4194	SG4194R	SGL	VOLT REG	79-37	115	4558	RC4558DE	RTN	OP AMP	37-62
6	4194	RC4194DB	RTN	VOLT REG	75-69	116	4558	RC4558JG	TIL	OP AMP	37-71
7	4194	RC4194DC	RTN	VOLT REG	65-60	117	4558	RC4558NB	RTN	OP AMP	37-72
8	4194	RC4194TK	RTN	VOLT REG	65-89	118	4558	RC4558P	TIL	OP AMP	37-73
9	4194	RM4194DC	RTN	VOLT REG	66-15	119	4558	RC4558T	RTN	OP AMP	37-74
10	4194	RM4194TK	RTN	VOLT REG	66-16	120	4558	RM4558DE	RTN	OP AMP	37-33
11	4194	XR4194MK	EXR	VOLT REG	79-38	121	4558	RM4558JG	TIL	OP AMP	37-34
12	4195	RC4195NB	RTN	VOLT REG	78-69	122	4558	RM4558T	RTN	OP AMP	37-35
13	4195	RC4195T	RTN	VOLT REG	78-70	123	4558	RV4558NB	RTN	OP AMP	37-77
14	4195	RC4195TK	RTN	VOLT REG	78-72	124	4558	SA4558FE	RTCF	OP AMP	54-5
15	4195	RM4195T	RTN	VOLT REG	78-71	125	4558	SA4558FE	SIC	OP AMP	54-5
16	4195	RM4195TK	RTN	VOLT REG	78-73	126	4558	SA4558NB	RTCF	OP AMP	54-6
17	4195	XR4195CK	EXR	VOLT REG	73-39	127	4558	SA4558N	SIC	OP AMP	54-6
18	4195	XR4195MT	EXR	VOLT REG	73-16	128	4558	SA4558N	SIC	OP AMP	54-8
19	4200	RC4200ADE	RTN	SPECIAL	90-94	129	4558	TDB4558CM	THEF	OP AMP	42-92
20	4200	RC4200ANB	RTN	SPECIAL	90-95	130	4558	TDB4558DP	THEF	OP AMP	42-92
21	4200	RC4200DE	RTN	SPECIAL	90-96	131	4558	NE4558D	RTCF	OP AMP	54-2
22	4200	RC4200NB	RTN	SPECIAL	90-97	132	4558	NE4558D	SIC	OP AMP	54-2
23	4200	RM4200ADE	RTN	SPECIAL	90-98	133	4558	NE4558FE	RTCF	OP AMP	54-3
24	4200	RM4200DE	RTN	SPECIAL	90-99	134	4558	NE4558FE	SIC	OP AMP	54-3
25	4200	RV4200ADE	RTN	SPECIAL	90-100	135	4558	NE4558N	RTCF	OP AMP	54-4
26	4200	RV4200ANB	RTN	SPECIAL	90-101	136	4558	NE4558N	SIC	OP AMP	54-4
27	4200	RV4200DE	RTN	SPECIAL	90-102	137	4558	TDC4558CM	THEF	OP AMP	45-6
28	4200	RV4200NB	RTN	SPECIAL	90-103	138	4558	SE4558FE	RTCF	OP AMP	54-1
29	4201	TLE4201A	SIEG	MISC	105-96	139	4558	SE4558FE	SIC	OP AMP	54-1
30	4201	TLE4201S	SIEG	MISC	105-97	140	4558	uPC4558C	NECE	OP AMP	37-44
31	4202	UCN4202A	SPR	MISC	105-104	141	4558	uPC4558C	NECE	OP AMP	37-44
32	4202	XR4202M	EXR	OP AMP	45-31	142	4558	uPC4558G	NECE	OP AMP	47-46
33	4202	XR4202N	EXR	OP AMP	45-23	143	4558	AM4558	MATJ	OP AMP	24-17
34	4202	XR4202P	EXR	OP AMP	44-55	144	4558	RC4558DE	RTN	OP AMP	36-74
35	4203	4203J	BUB	SPECIAL	91-74	145	4559	RC4558NB	RTN	OP AMP	36-75
36	4203	4203K	BUB	SPECIAL	91-75	146	4559	RC4558T	RTN	OP AMP	36-76
37	4203	4203S	BUB	SPECIAL	91-76	147	4559	RM4558DE	RTN	OP AMP	36-66
38	4203	4203SQ	BUB	SPECIAL	91-77	148	4559	RM4558T	RTN	OP AMP	36-67
39	4203	UCN4203A	SPR	MISC	105-105	149	4559	RV4558DE	RTN	OP AMP	36-77
40	4204	MB4204C	FCAJ	VOLT COMP	82-78	150	4559	RV4558NB	RTN	OP AMP	36-76
41	4204	MB4204M	FCAJ	VOLT COMP	82-79	151	4559	RV4558T	RTN	OP AMP	36-79
42	4205	4205J	BUB	SPECIAL	91-34	152	4558	uPC4559C	NECE	OP AMP	42-38
43	4205	4205K	BUB	SPECIAL	91-35	153	4558	uPC4559C	NECE	OP AMP	42-38
44	4205	4205S	BUB	SPECIAL	91-36	154	4600	uPC4560C	NECE	OP AMP	48-34
45	4212	XR4212CN	EXR	OP AMP	45-30	155	4600	TDA4600-2	SIEG	MISC	99-80
46	4212	XR4212CP	EXR	OP AMP	44-68	156	4602	TDA4600-2D	SIEG	MISC	99-81
47	4212	XR4212M	EXR	OP AMP	45-26	157	4605	HA4602-2	HAS	OP AMP	36-42
48	4213	4213AM	BUB	SPECIAL	90-83	158	4622	HA4605-5	HAS	OP AMP	38-105
49	4213	4213BM	BUB	SPECIAL	90-84	159	4622	HA4622-2	HAS	OP AMP	36-41
50	4213	4213SM	BUB	SPECIAL	90-85	160	4700	HA4625-5	HAS	OP AMP	38-104
51	4229	AH4229	ALP	WIDEBD AMP	60-91	161	4700	TDA4700	SIEG	MISC	99-82
52	4230	AH4230	ALP	WIDEBD AMP	60-92	162	4714	TDA4700A	SIEG	MISC	99-83
53	4250	SG4250CM	SGL	OP AMP	21-77	163	4714	TDA4711A	SIEG	MISC	99-84
54	4250	SG4250CT	SGL	OP AMP	21-78	164	4716	TDA4711B	SIEG	MISC	99-85
55	4250	SG4250CY	SGL	OP AMP	21-79	165	4716	TDA4711A	SIEG	MISC	99-85
56	4250	SG4250T	SGL	OP AMP	21-69	166	4718	TDA4716A	SIEG	MISC	99-86
57	4250	SG4250Y	SGL	OP AMP	21-70	167	4718	TDA4716B	SIEG	MISC	99-87
58	4250	ID4250	SOD	OP AMP	21-67	168	4739	TDA4718A	SIEG	MISC	99-89
59	4250	TDA4250B	PHIN	OP AMP	21-67	168	4739	RC4739DB	RTN	OP AMP	40-33
60	4250	TDA4250B#1	PHIN	OP AMP	21-68	169	4739	XR4739CN	EXR	OP AMP	39-5
61	4250	TDA4250B#2	PHIN	OP AMP	21-68	170	4739	XR4739CP	EXR	OP AMP	39-6
62	4250	TDA4250D	PHIN	OP AMP	21-59	171	4741	HA1-4741-8	RTN	OP AMP	36-1
63	4250	TDA4250D#1	PHIN	OP AMP	21-89	172	4741	HA3-4741-5	RTN	OP AMP	39-79
64	4250	TDA4250D#2	PHIN	OP AMP	21-60	173	4741	HA3-4741-5DB	RTN	OP AMP	39-80
65	4250	uPC4250C	NECE	OP AMP	47-19	175	4741	MC4741CL	MOTA	OP AMP	39-54
66	4250	uPC4250G	NECE	OP AMP	47-19	176	4741	MC4741CP	MOTA	OP AMP	39-55
67	4250	uPC4250G	NECE	OP AMP	47-45	177	4741	MC4741L	MOTA	OP AMP	34-72
68	4250	uPC4250CH	NECE	OP AMP	47-45	178	4741	HA4741-2	HAS	OP AMP	36-2
69	4250	LM4250CJ	NSC	OP AMP	27-84	179	4741	HA4741-5	HAS	OP AMP	39-81
70	4250	LM4250CN	NSC	OP AMP	27-85	180	4741	uPC4741C	NECE	OP AMP	39-50
71	4250	LM4250F	NSC	OP AMP	27-86	181	4741	uPC4741G	NECE	OP AMP	39-50
72	4250	LM4250H	NSC	OP AMP	27-82	182	4741	XR4741CN	EXR	OP AMP	39-7
73	4250	LM4250J	NSC	OP AMP	27-81	183	4741	XR4741CP	EXR	OP AMP	39-8
74	4250	LM4250K	NSC	OP AMP	27-83	184	4741	XR4741M	EXR	OP AMP	39-4
75	4250	UC4250	SOD	OP AMP	21-71	185	4752	HEF4752VD	PHIN	MISC	105-64
76	4250	UC4250C	SOD	OP AMP	21-80	186	4752	HEF4752VP	PHIN	MISC	105-65
77	4250	UC4250CE	SOD	OP AMP	21-81	187	4761	TAA4761A	SIEG	OP AMP	32-36
78	4250	AN4250	MATJ	OP AMP	24-16	188	4765	TAA4765A	SIEG	OP AMP	32-37
79	4251	ID4251	SOD	OP AMP	20-6	189	4780	4780D	TPN	SPECIAL	93-106
80	4251	ID4251C	SOD	OP AMP	20-8	190	4781	4781D	TPN	SPECIAL	93-107
81	4251	UC4251	SOD	OP AMP	20-7	191	4900	HA4900-2	HAS	VOLT COMP	88-3
82	4251	UC4251C	SOD	OP AMP	20-9	192	4900	HA4900-8	HAS	VOLT COMP	88-4
83	4252	UC4252	SOD	OP AMP	21-72	193	4900	VTD4900	AVA	SPECIAL	97-4
84	4252	UC4252C	SOD	OP AMP	21-75	194	4901	TLE4901	SIEG	MISC	106-38
85	4253	UC4253	SOD	OP AMP	21-73	195	4905	HA4905-5	HAS	VOLT COMP	86-41
86	4253	UC4253C	SOD	OP AMP	21-82	196	4905	HA4905-6	HAS	VOLT COMP	86-42
87	4331	TBB4331A	SIEG	OP AMP	27-55	197	4920	HA4920-2	HAS	VOLT COMP	88-23
88	4335	TBE4335A	SIEG	OP AMP	27-59	198	4925	HA4925-5	HAS	VOLT COMP	88-24
89	4359	uPC4359C	NECE	SPECIAL	90-4	199	4950	HA4950-2	HAS	VOLT COMP	88-18
90	4453	TAE4453A	SIEG	OP AMP	48-80	200	4950	HA4950-5	HAS	VOLT COMP	88-19
91	4453	TAE4453B	SIEG	OP AMP	46-6	201	4950	HA4950-8	HAS	VOLT COMP	88-20
92	4501	SG4501J	SGL	VOLT REG	75-45	202	5002	5002	MDI	OP AMP	40-97
93	4501	SG4501N	SGL	VOLT REG	75-39	203	5010	MP5010GN	MPS	SPECIAL	95-83
94	4501	SG4501T	SGL	VOLT REG	75-42	204	5010	MP5010HN	MPS	SPECIAL	95-84
95	4531	RC4531NB	RTN	OP AMP	41-14	205	5010	MP5010JT	MPS	SPECIAL	95-85
96	4531	RC4531T	RTN	OP AMP	41-15	206	5010	MP5010KT	MPS	SPECIAL	95-86
97	4531	RM4531DC	RTN	OP AMP	39-51	207	5062	HA5062-2	HAS	OP AMP	53-51
98	4531	RM4531T	RTN	OP AMP	39-52	208	5062	HA5062-5	HAS	OP AMP	53-52
99	4556	uPC4556C	NECE	OP AMP	45-21	209	5062	HA5062A5	HAS	OP AMP	53-49
100	4556	uPC4556G	NECE	OP AMP	45-21	210	5062	HA5062B5	HAS	OP AMP	53-47
101	4556	uPC4556G	NECE	OP AMP	20-1	211	5064	HA5064-2	HAS	OP AMP	53-28
102	4557	uPC4557C	NECE	OP AMP	45-22	212	5064	HA5064-5(A)	HAS	OP AMP	53-36
103	4557	uPC4557C	NECE	OP AMP	45-22	213	5064	HA5064A5(A)	HAS	OP AMP	53-27
104	4558	MC4558ACP1	MOTA	OP AMP	35-62	214	5064	HA5064B5(A)	HAS	OP AMP	53-26
105	4558	MC4558CG	MOTA	OP AMP	36-71	215	5082	HA5082-2	HAS	OP AMP	53-50
106	4558	MC4558CP1	MOTA	OP AMP	36-72	216	5082	HA5082-5	HAS	OP AMP	53-53
107	4558	MC4558CU	MOTA	OP AMP	36-73	217	5082	HA5082A5	HAS	OP AMP	53-48
108	4558	MC4558G	MOTA	OP AMP	35-63	218	5082	HA5082B5	HAS	OP AMP	53-46
109	4558	MC4558NCG	MOTA	OP AMP	35-64	219	5084	HA5084-2	HAS	OP AMP	53-21
110	4558	MC4558NCP1	MOTA	OP AMP	35-65	220	5084	HA5084-5	HAS	OP AMP	53-23

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1	5084	HA5084-8	HAS	OP AMP	53- 22	111	5510	MP5510EP	MPS	OP AMP	26- 53
2	5084	HA5084A5	HAS	OP AMP	53- 20	112	5510	MP5510EY	MPS	OP AMP	25-103
3	5084	HA5084B5	HAS	OP AMP	53- 19	113	5511	MP5511AD	MPS	OP AMP	26- 8
4	5100	HA5100-2	HAS	OP AMP	52- 37	114	5511	MP5511AP	MPS	OP AMP	26- 9
5	5100	HA5100-5	HAS	OP AMP	52- 39	115	5511	MP5511BD	MPS	OP AMP	26- 16
6	5105	HA5105-5	HAS	OP AMP	52- 57	116	5511	MP5511BP	MPS	OP AMP	26- 17
7	5110	HA5110-2	HAS	OP AMP	52- 38	117	5511	MP5511ED	MPS	OP AMP	26- 10
8	5110	HA5110-5	HAS	OP AMP	52- 40	118	5511	MP5511EP	MPS	OP AMP	26- 11
9	5115	HA5115-5	HAS	OP AMP	52- 58	119	5511	MP5511FD	MPS	OP AMP	26- 18
10	5130	HA5130-2	HAS	OP AMP	52- 43	120	5511	MP5511FP	MPS	OP AMP	26- 19
11	5130	HA5130-5	HAS	OP AMP	52- 44	121	5512	NE5512D	RTCF	OP AMP	23- 71
12	5130	HA5130-8	HAS	OP AMP	52- 45	122	5512	NE5512D	SIC	OP AMP	23- 71
13	5135	HA5135-2	HAS	OP AMP	52- 48	123	5512	NE5512D	VALG	OP AMP	23- 71
14	5135	HA5135-5	HAS	OP AMP	52- 49	124	5512	NE5512FE	PHIN	OP AMP	23- 72
15	5135	HA5135-8	HAS	OP AMP	52- 50	125	5512	NE5512FE	RTCF	OP AMP	23- 72
16	5160	HA5160-2	HAS	OP AMP	53- 64	126	5512	NE5512FE	SIC	OP AMP	23- 72
17	5160	HA5160-5	HAS	OP AMP	53- 66	127	5512	NE5512FE	VALG	OP AMP	23- 72
18	5160	HA5160-8	HAS	OP AMP	53- 65	128	5512	NE5512N	PHIN	OP AMP	23- 73
19	5162	HA5162-5	HAS	OP AMP	53- 67	129	5512	NE5512N	RTCF	OP AMP	23- 73
20	5170	HA5170-2(A)	HAS	OP AMP	55- 45	130	5512	SE5512FE	PHIN	OP AMP	23- 69
21	5170	HA5170-5(A)	HAS	OP AMP	55- 44	131	5512	NE5512N	SIC	OP AMP	23- 69
22	5170	HA5170-8(A)	HAS	OP AMP	55- 46	132	5512	SE5512FE	SIC	OP AMP	23- 69
23	5174	M5174P	MITJ	MISC	101- 28	133	5512	NE5512N	VALG	OP AMP	23- 73
24	5181	MHW5181	MOTA	WIDEBD AMP	61- 63	134	5512	SE5512FE	VALG	OP AMP	23- 69
25	5182	MHW5182	MOTA	WIDEBD AMP	61- 64	135	5512	SE5512N	PHIN	OP AMP	23- 70
26	5190	HA5190-2	HAS	OP AMP	45- 47	136	5512	SE5512N	SIC	OP AMP	23- 70
27	5190	HA5190-8	HAS	OP AMP	45- 48	137	5512	SE5512N	VALG	OP AMP	23- 70
28	5195	HA5195-5	HAS	OP AMP	45- 52	138	5514	NE5514D	RTCF	OP AMP	45- 70
29	5215	M5215L	MITJ	RF/IF AMP	58- 11	139	5514	NE5514D	SIC	OP AMP	45- 70
30	5218	M5218L	MITJ	OP AMP	45- 68	140	5514	NE5514F	PHIN	OP AMP	23- 66
31	5230	M5230L	MITJ	VOLT REG	81- 8	141	5514	NE5514F	RTCF	OP AMP	23- 66
32	5231	M5231L	MITJ	VOLT REG	81- 16	142	5514	SE5514F	PHIN	OP AMP	23- 64
33	5501	MP5501AJ	MPS	OP AMP	25- 59	143	5514	NE5514F	SIC	OP AMP	23- 66
34	5501	MP5501AY	MPS	OP AMP	25- 60	144	5514	SE5514F	SIC	OP AMP	23- 64
35	5501	MP5501CJ	MPS	OP AMP	25- 41	145	5514	NE5514F	VALG	OP AMP	23- 66
36	5501	MP5501CP	MPS	OP AMP	25- 42	146	5514	SE5514F	VALG	OP AMP	23- 64
37	5501	MP5501CY	MPS	OP AMP	25- 43	147	5514	NE5514N	PHIN	OP AMP	23- 67
38	5501	MP5501EJ	MPS	OP AMP	25- 65	148	5514	SE5514N	PHIN	OP AMP	23- 67
39	5501	MP5501EP	MPS	OP AMP	25- 66	149	5514	NE5514N	RTCF	OP AMP	23- 65
40	5501	MP5501EY	MPS	OP AMP	25- 67	150	5514	SE5514N	SIC	OP AMP	23- 65
41	5501	MP5501FJ	MPS	OP AMP	25- 68	151	5514	NE5514N	SIC	OP AMP	23- 67
42	5501	MP5501FY	MPS	OP AMP	25- 69	152	5514	SE5514N	VALG	OP AMP	23- 65
43	5501	MP5501GJ	MPS	OP AMP	25- 44	153	5514	NE5514N	VALG	OP AMP	23- 67
44	5501	MP5501GY	MPS	OP AMP	25- 76	154	5517	NE5517AD	PHIN	OP AMP	26- 60
45	5501	MP5501HJ	MPS	OP AMP	25- 61	155	5517	NE5517AD	SIC	OP AMP	26- 60
46	5501	MP5501HP	MPS	OP AMP	25- 62	156	5517	NE5517AD	VALG	OP AMP	26- 60
47	5501	MP5501HY	MPS	OP AMP	25- 63	157	5517	NE5517AN	PHIN	OP AMP	26- 61
48	5502	MP5502AJ	MPS	OP AMP	25- 53	158	5517	NE5517AN	RTCF	OP AMP	26- 61
49	5502	MP5502AP	MPS	OP AMP	25- 54	159	5517	NE5517AN	SIC	OP AMP	26- 61
50	5502	MP5502AY	MPS	OP AMP	25- 55	160	5517	NE5517AN	VALG	OP AMP	26- 61
51	5502	MP5502BJ	MPS	OP AMP	25- 77	161	5517	NE5517D	PHIN	OP AMP	24- 48
52	5502	MP5502BP	MPS	OP AMP	25- 78	162	5517	NE5517D	RTCF	OP AMP	24- 48
53	5502	MP5502BY	MPS	OP AMP	25- 79	163	5517	NE5517D	SIC	OP AMP	24- 48
54	5502	MP5502CJ	MPS	OP AMP	25- 70	164	5517	NE5517D	VALG	OP AMP	24- 48
55	5502	MP5502CP	MPS	OP AMP	25- 71	165	5517	NE5517N	PHIN	OP AMP	24- 49
56	5502	MP5502CY	MPS	OP AMP	25- 72	166	5517	NE5517N	RTCF	OP AMP	24- 49
57	5502	MP5502DJ	MPS	OP AMP	25- 80	167	5517	NE5517N	SIC	OP AMP	24- 49
58	5502	MP5502DP	MPS	OP AMP	25- 81	168	5517	NE5517N	VALG	OP AMP	24- 49
59	5502	MP5502DY	MPS	OP AMP	25- 82	169	5522	NE5522N	PHIN	MISC	105- 72
60	5502	MP5502EJ	MPS	OP AMP	25- 56	170	5522	NE5522N	SIC	MISC	105- 72
61	5502	MP5502EP	MPS	OP AMP	25- 57	171	5527	MP5527AJ(M)	MPS	OP AMP	26- 24
62	5502	MP5502EY	MPS	OP AMP	25- 58	172	5527	MP5527AZ(M)	MPS	OP AMP	26- 25
63	5502	MP5502J	MPS	OP AMP	25- 73	173	5527	MP5527BJ(M)	MPS	OP AMP	26- 32
64	5502	MP5502P	MPS	OP AMP	25- 74	174	5527	MP5527BZ(M)	MPS	OP AMP	26- 33
65	5502	MP5502Y	MPS	OP AMP	25- 75	175	5527	MP5527CJ(M)	MPS	OP AMP	26- 40
66	5505	MP5505AJ	MPS	OP AMP	25- 92	176	5527	MP5527CZ(M)	MPS	OP AMP	26- 41
67	5505	MP5505AP	MPS	OP AMP	25- 93	177	5527	MP5527EJ(M)	MPS	OP AMP	26- 26
68	5505	MP5505AY	MPS	OP AMP	25- 94	178	5527	MP5527EZ(M)	MPS	OP AMP	26- 27
69	5505	MP5505BJ	MPS	OP AMP	25- 95	179	5527	MP5527FJ(M)	MPS	OP AMP	26- 34
70	5505	MP5505BP	MPS	OP AMP	25- 96	180	5527	MP5527FZ(M)	MPS	OP AMP	26- 35
71	5505	MP5505BY	MPS	OP AMP	25- 97	181	5527	MP5527GJ(M)	MPS	OP AMP	26- 42
72	5505	MP5505CJ	MPS	OP AMP	25-110	182	5527	MP5527GZ(M)	MPS	OP AMP	26- 43
73	5505	MP5505CP	MPS	OP AMP	26- 1	183	5530	SE5530F	MULB	OP AMP	38- 44
74	5505	MP5505CY	MPS	OP AMP	26- 2	184	5530	SE5530F	PHIN	OP AMP	38- 44
75	5505	MP5505EJ	MPS	OP AMP	25- 98	185	5530	SE5530F	SIC	OP AMP	38- 44
76	5505	MP5505EP	MPS	OP AMP	25- 99	186	5530	SE5530H	PHIN	OP AMP	32- 58
77	5505	MP5505EY	MPS	OP AMP	25-100	187	5530	SE5530H	SIC	OP AMP	32- 58
78	5507	MP5507AJ	MPS	OP AMP	25- 83	188	5530	SE5530K	VALG	OP AMP	38- 45
79	5507	MP5507AP	MPS	OP AMP	25- 84	189	5530	SE5530N	MULB	OP AMP	38- 46
80	5507	MP5507AY	MPS	OP AMP	25- 85	190	5530	SE5530N	PHIN	OP AMP	38- 46
81	5507	MP5507BJ	MPS	OP AMP	25- 86	191	5530	SE5530N	SIC	OP AMP	38- 46
82	5507	MP5507BP	MPS	OP AMP	25- 87	192	5530	SE5530N	VALG	OP AMP	38- 46
83	5507	MP5507BY	MPS	OP AMP	25- 88	193	5530	SE5530N-14	MULB	OP AMP	38- 47
84	5507	MP5507CJ	MPS	OP AMP	25-104	194	5530	SE5530N-14	PHIN	OP AMP	38- 47
85	5507	MP5507CP	MPS	OP AMP	25-105	195	5530	SE5530N-14	VALG	OP AMP	38- 47
86	5507	MP5507CY	MPS	OP AMP	25-106	196	5530	NE5530F	MULB	OP AMP	38- 13
87	5507	MP5507DJ	MPS	OP AMP	25-107	197	5530	NE5530F	PHIN	OP AMP	38- 13
88	5507	MP5507DP	MPS	OP AMP	25-108	198	5530	NE5530F	SIC	OP AMP	38- 13
89	5507	MP5507DY	MPS	OP AMP	25-109	199	5530	NE5530F	VALG	OP AMP	38- 13
90	5507	MP5507EJ	MPS	OP AMP	25- 89	200	5530	NE5530H	PHIN	OP AMP	32- 56
91	5507	MP5507EP	MPS	OP AMP	25- 90	201	5530	NE5530H	SIC	OP AMP	32- 56
92	5507	MP5507EY	MPS	OP AMP	25- 91	202	5530	NE5530K	MULB	OP AMP	38- 14
93	5509	MP5509AD	MPS	OP AMP	26- 4	203	5530	NE5530K	PHIN	OP AMP	38- 14
94	5509	MP5509AP	MPS	OP AMP	26- 5	204	5530	NE5530N	VALG	OP AMP	38- 14
95	5509	MP5509BD	MPS	OP AMP	26- 12	205	5530	NE5530N	MULB	OP AMP	38- 15
96	5509	MP5509BP	MPS	OP AMP	26- 13	206	5530	NE5530N	PHIN	OP AMP	38- 15
97	5509	MP5509ED	MPS	OP AMP	26- 6	207	5530	NE5530N	SIC	OP AMP	38- 15
98	5509	MP5509EP	MPS	OP AMP	26- 7	208	5530	NE5530N	VALG	OP AMP	38- 15
99	5509	MP5509FD	MPS	OP AMP	26- 14	209	5530	NE5530N-14	MULB	OP AMP	38- 16
100	5509	MP5509FP	MPS	OP AMP	26- 15	210	5530	NE5530N-14	PHIN	OP AMP	38- 16
101	5510	MP5510AJ	MPS	OP AMP	26- 48	211	5530	NE5530N-14	VALG	OP AMP	38- 16
102	5510	MP5510AP	MPS	OP AMP	26- 49	212	5531	MP5531AJ	MPS	SPECIAL	96- 72
103	5510	MP5510AY	MPS	OP AMP	25-101	213	5531	MP5531AP	MPS	SPECIAL	96- 73
104	5510	MP5510BJ	MPS	OP AMP	26- 50	214	5531	MP5531BJ	MPS	SPECIAL	96- 74
105	5510	MP5510BP	MPS	OP AMP	26- 51	215	5531	MP5531BP	MPS	SPECIAL	96- 75
106	5510	MP5510BY	MPS	OP AMP	25-102	216	5531	MP5531CJ	MPS	SPECIAL	96- 32
107	5510	MP5510CJ	MPS	OP AMP	26- 54	217	5531	MP5531CP	MPS	SPECIAL	96- 33
108	5510	MP5510CP	MPS	OP AMP	26- 55	218	5531	MP5531DJ	MPS	SPECIAL	96- 34
109	5510	MP5510CY	MPS	OP AMP	26- 3	219	5531	MP5531DP	MPS	SPECIAL	96- 35
110	5510	MP5510EJ	MPS	OP AMP	26- 52	220	5531	MP5531EJ	MPS	SPECIAL	96- 76

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1	5531	MP5531EP	MPS	SPECIAL	96-77	111	5534	NE5534P	TII	OP AMP	40-56
2	5531	MP5531HJ	MPS	SPECIAL	96-78	112	5534	NE5534T	PHIN	OP AMP	40-57
3	5531	MP5531HP	MPS	SPECIAL	96-79	113	5534	NE5534F	VALG	OP AMP	40-57
4	5532	MP5532AJ	MPS	SPECIAL	96-80	114	5535	SE5535F	MULB	OP AMP	37-17
5	5532	MP5532AP	MPS	SPECIAL	96-81	115	5535	SE5535F	PHIN	OP AMP	37-17
6	5532	MP5532BJ	MPS	SPECIAL	96-82	116	5535	SE5535F	VALG	OP AMP	37-17
7	5532	MP5532BP	MPS	SPECIAL	96-83	117	5535	SE5535H(M)	PHIN	OP AMP	26-91
8	5532	MP5532CJ	MPS	SPECIAL	96-36	118	5535	SE5535H(M)	SIC	OP AMP	26-91
9	5532	MP5532CP	MPS	SPECIAL	96-37	119	5535	SE5535K	MULB	OP AMP	37-18
10	5532	MP5532DJ	MPS	SPECIAL	96-38	120	5535	SE5535K	PHIN	OP AMP	37-18
11	5532	MP5532DP	MPS	SPECIAL	96-39	121	5535	SE5535K	VALG	OP AMP	37-18
12	5532	MP5532EJ	MPS	SPECIAL	96-84	122	5535	SE5535N	MULB	OP AMP	37-19
13	5532	MP5532EP	MPS	SPECIAL	96-85	123	5535	SE5535N	PHIN	OP AMP	37-19
14	5532	MP5532HJ	MPS	SPECIAL	96-86	124	5535	SE5535N	SIC	OP AMP	37-19
15	5532	MP5532HP	MPS	SPECIAL	96-87	125	5535	SE5535N	VALG	OP AMP	37-19
16	5532	SE5532AFE	SIC	OP AMP	55-57	126	5535	SE5535N-14	MULB	OP AMP	37-20
17	5532	SE5532FE	SIC	OP AMP	55-58	127	5535	SE5535N-14	PHIN	OP AMP	37-20
18	5532	NE5532AFE	MULB	OP AMP	42-64	128	5535	SE5535N-14	VALG	OP AMP	37-20
19	5532	NE5532AFE	PHIN	OP AMP	42-64	129	5535	SE5535T	PHIN	OP AMP	38-48
20	5532	NE5532AFE	RTCF	OP AMP	42-64	130	5535	NE5535F	MULB	OP AMP	36-81
21	5532	NE5532AFE	SIC	OP AMP	42-64	131	5535	NE5535F	PHIN	OP AMP	36-81
22	5532	NE5532AFE	VALG	OP AMP	42-64	132	5535	NE5535F	VALG	OP AMP	36-81
23	5532	NE5532AH	PHIN	OP AMP	22-19	133	5535	NE5535H	PHIN	OP AMP	26-92
24	5532	NE5532AJG(A)	TII	OP AMP	55-52	134	5535	NE5535H	SIC	OP AMP	26-92
25	5532	NE5532AN	PHIN	OP AMP	22-20	135	5535	NE5535K	MULB	OP AMP	36-82
26	5532	NE5532AN	RTCF	OP AMP	22-20	136	5535	NE5535K	PHIN	OP AMP	36-82
27	5532	NE5532AN	SIC	OP AMP	22-20	137	5535	NE5535K	VALG	OP AMP	36-82
28	5532	NE5532AN	VALG	OP AMP	22-20	138	5535	NE5535N	MULB	OP AMP	36-83
29	5532	NE5532AP(A)	TII	OP AMP	55-56	139	5535	NE5535N	PHIN	OP AMP	36-83
30	5532	NE5532AT	MULB	OP AMP	42-65	140	5535	NE5535N	SIC	OP AMP	36-83
31	5532	NE5532AT	PHIN	OP AMP	42-65	141	5535	NE5535N	VALG	OP AMP	36-83
32	5532	NE5532FE	MULB	OP AMP	42-66	142	5535	NE5535N-14	MULB	OP AMP	36-84
33	5532	NE5532FE	PHIN	OP AMP	42-66	143	5535	NE5535N-14	PHIN	OP AMP	36-84
34	5532	NE5532FE	RTCF	OP AMP	42-66	144	5535	NE5535N-14	VALG	OP AMP	36-84
35	5532	NE5532FE	SIC	OP AMP	42-66	145	5535	NE5535T	PHIN	OP AMP	38-17
36	5532	NE5532FE	VALG	OP AMP	42-66	146	5537	MP5537AJ(M)	MPS	OP AMP	26-26
37	5532	NE5532H	PHIN	OP AMP	22-21	147	5537	MP5537AZ(M)	MPS	OP AMP	26-29
38	5532	NE5532JG(A)	TII	OP AMP	55-53	148	5537	MP5537BJ(M)	MPS	OP AMP	26-36
39	5532	NE5532N	PHIN	OP AMP	22-22	149	5537	MP5537BZ(M)	MPS	OP AMP	26-37
40	5532	NE5532N	RTCF	OP AMP	22-22	150	5537	MP5537CJ(M)	MPS	OP AMP	26-44
41	5532	NE5532N	SIC	OP AMP	22-22	151	5537	MP5537CZ(M)	MPS	OP AMP	26-45
42	5532	NE5532N	VALG	OP AMP	22-22	152	5537	MP5537EJ(M)	MPS	OP AMP	26-30
43	5532	NE5532P(A)	TII	OP AMP	55-56	153	5537	MP5537EZ(M)	MPS	OP AMP	26-31
44	5532	NE5532T	MULB	OP AMP	42-67	154	5537	MP5537FJ(M)	MPS	OP AMP	26-38
45	5532	NE5532T	PHIN	OP AMP	42-67	155	5537	MP5537FJ(M)	MPS	OP AMP	26-38
46	5533	NE5533AF	PHIN	OP AMP	42-68	156	5537	MP5537FZ(M)	MPS	OP AMP	26-39
47	5533	NE5533AF	RTCF	OP AMP	42-68	157	5537	MP5537GJ(M)	MPS	OP AMP	26-46
48	5533	NE5533AF	SIC	OP AMP	42-68	158	5537	MP5537GZ(M)	MPS	OP AMP	26-47
49	5533	NE5533AF	VALG	OP AMP	42-68	159	5537	SE5537H	PHIN	SPECIAL	94-88
50	5533	NE5533AN	PHIN	OP AMP	42-69	160	5537	SE5537H	RTCF	SPECIAL	94-88
51	5533	NE5533AN	RTCF	OP AMP	42-69	161	5537	SE5537H	SIC	SPECIAL	94-88
52	5533	NE5533AN	SIC	OP AMP	42-69	162	5537	SE5537N	RTCF	SPECIAL	94-106
53	5533	NE5533AN	PHIN	OP AMP	42-69	163	5537	SE5537N	SIC	SPECIAL	94-106
54	5533	NE5533F	VALG	OP AMP	42-70	164	5537	NE5537H	PHIN	SPECIAL	94-87
55	5533	NE5533F	RTCF	OP AMP	42-70	165	5537	NE5537H	SIC	SPECIAL	94-87
56	5533	NE5533F	SIC	OP AMP	42-70	166	5537	NE5537N	SIC	SPECIAL	94-105
57	5533	NE5533F	VALG	OP AMP	42-70	167	5538	SE5538F	MULB	OP AMP	38-49
58	5533	NE5533N	PHIN	OP AMP	42-71	168	5538	SE5538F	PHIN	OP AMP	38-49
59	5533	NE5533N	SIC	OP AMP	42-71	169	5538	SE5538F	SIC	OP AMP	38-49
60	5533	NE5533N	RTCF	OP AMP	42-71	170	5538	SE5538F	VALG	OP AMP	38-49
61	5534	RC5534A	VALG	OP AMP	42-71	171	5538	SE5538H	PHIN	OP AMP	32-69
62	5534	RC5534ADE	RTN	OP AMP	40-58	172	5538	SE5538H	SIC	OP AMP	32-69
63	5534	RC5534ANB	RTN	OP AMP	40-59	173	5538	SE5538H	VALG	OP AMP	32-69
64	5534	RC5534AT	RTN	OP AMP	40-60	174	5538	SE5538K	MULB	OP AMP	38-50
65	5534	RC5534ADE	RTN	OP AMP	40-61	175	5538	SE5538K	PHIN	OP AMP	38-50
66	5534	RC5534ANB	RTN	OP AMP	40-62	176	5538	SE5538K	VALG	OP AMP	38-50
67	5534	RC5534T	RTN	OP AMP	40-63	177	5538	SE5538N	MULB	OP AMP	38-51
68	5534	RM5534ADE	RTN	OP AMP	38-91	178	5538	SE5538N	PHIN	OP AMP	38-51
69	5534	RM5534AT	RTN	OP AMP	38-92	179	5538	SE5538N	SIC	OP AMP	38-51
70	5534	RM5534ADE	RTN	OP AMP	38-93	180	5538	SE5538N	VALG	OP AMP	38-51
71	5534	RM5534T	RTN	OP AMP	38-94	181	5538	SE5538N-14	VALG	OP AMP	38-52
72	5534	RM5534T/883B	RTN	OP AMP	38-95	182	5538	SE5538T	MULB	OP AMP	38-53
73	5534	SE5534AFE	PHIN	OP AMP	23-44	183	5538	SE5538T	PHIN	OP AMP	38-53
74	5534	SE5534AFE	SIC	OP AMP	23-44	184	5538	SE5538T	VALG	OP AMP	38-53
75	5534	SE5534AFE	VALG	OP AMP	23-44	185	5538	NE5538F	MULB	OP AMP	38-18
76	5534	SE5534AH	PHIN	OP AMP	22-14	186	5538	NE5538F	PHIN	OP AMP	38-18
77	5534	SE5534AJG	TII	OP AMP	38-96	187	5538	NE5538F	SIC	OP AMP	38-18
78	5534	SE5534AN	PHIN	OP AMP	38-97	188	5538	NE5538F	VALG	OP AMP	38-18
79	5534	SE5534AN	SIC	OP AMP	38-97	189	5538	NE5538H	PHIN	OP AMP	32-76
80	5534	SE5534AN	VALG	OP AMP	38-97	190	5538	NE5538H	SIC	OP AMP	32-76
81	5534	SE5534AT	PHIN	OP AMP	38-98	191	5538	NE5538H	VALG	OP AMP	32-76
82	5534	SE5534AT	VALG	OP AMP	38-98	192	5538	NE5538K	MULB	OP AMP	38-19
83	5534	SE5534AU	TII	OP AMP	44-108	193	5538	NE5538K	PHIN	OP AMP	38-19
84	5534	SE5534FE	SIC	OP AMP	23-45	194	5538	NE5538N	VALG	OP AMP	38-19
85	5534	SE5534FE	VALG	OP AMP	23-45	195	5538	NE5538N	MULB	OP AMP	38-20
86	5534	SE5534H	PHIN	OP AMP	22-15	196	5538	NE5538N	PHIN	OP AMP	38-20
87	5534	SE5534JG	TII	OP AMP	38-99	197	5538	NE5538N	SIC	OP AMP	38-20
88	5534	SE5534N	PHIN	OP AMP	38-100	198	5538	NE5538N	VALG	OP AMP	38-20
89	5534	SE5534N	SIC	OP AMP	38-100	199	5538	NE5538N-14	MULB	OP AMP	38-21
90	5534	SE5534N	VALG	OP AMP	38-100	200	5538	NE5538N-14	PHIN	OP AMP	38-21
91	5534	SE5534T	PHIN	OP AMP	38-101	201	5538	NE5538N-14	VALG	OP AMP	38-21
92	5534	SE5534T	VALG	OP AMP	38-101	202	5538	NE5538T	MULB	OP AMP	38-22
93	5534	SE5534U	TII	OP AMP	44-109	203	5538	NE5538T	PHIN	OP AMP	38-22
94	5534	NE5534AD	SIC	OP AMP	55-49	204	5539	SE5538T	VALG	OP AMP	38-22
95	5534	NE5534AFE	PHIN	OP AMP	23-46	205	5539	SE5539F	SIC	OP AMP	26-87
96	5534	NE5534AFE	RTCF	OP AMP	23-46	206	5539	SE5539N	SIC	OP AMP	26-88
97	5534	NE5534AFE	SIC	OP AMP	23-46	207	5539	NE5539D	RTCF	OP AMP	26-84
98	5534	NE5534AFE	VALG	OP AMP	23-46	208	5539	NE5539D	SIC	OP AMP	26-84
99	5534	NE5534AH	PHIN	OP AMP	22-23	209	5539	NE5539F	RTCF	OP AMP	26-85
100	5534	NE5534AJG	TII	OP AMP	40-52	210	5539	NE5539F	SIC	OP AMP	26-85
101	5534	NE5534AP	TII	OP AMP	40-53	211	5539	NE5539N	PHIN	OP AMP	26-86
102	5534	NE5534AT	PHIN	OP AMP	40-54	212	5539	NE5539N	RTCF	OP AMP	26-86
103	5534	NE5534AT	VALG	OP AMP	40-54	213	5551	SE5551N	SIC	OP AMP	26-86
104	5534	NE5534D	SIC	OP AMP	23-47	214	5551	SE5551N	MULB	VOLT REG	64-75
105	5534	NE5534D	VALG	OP AMP	23-47	215	5551	SE5551N	PHIN	VOLT REG	64-75
106	5534	NE5534FE	RTCF	OP AMP	23-48	216	5551	SE5551T	VALG	VOLT REG	64-75
107	5534	NE5534FE	SIC	OP AMP	23-48	217	5551	SE5551T	MULB	VOLT REG	64-73
108	5534	NE5534FE	VALG	OP AMP	23-48	218	5551	SE5551T	PHIN	VOLT REG	64-73
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2	5551	NE5551T	MULB	VOLT REG	64-72	112	5602	R5602-4	RET	MISC	104-57
3	5551	NE5551T	PHIN	VOLT REG	64-72	113	5602	R5602-5	RET	MISC	104-58
4	5551	NE5551T	VALG	VOLT REG	64-72	114	5602	R5602-6	RET	MISC	104-59
5	5552	SE5552N	MULB	VOLT REG	67-17	115	5602	R5602-7	RET	MISC	104-60
6	5552	SE5552N	PHIN	VOLT REG	67-17	116	5602	R5602-8	RET	MISC	104-61
7	5552	SE5552N	VALG	VOLT REG	67-17	117	5604	R5604	RET	MISC	104-62
8	5552	SE5552T	MULB	VOLT REG	67-15	118	5605	R5605	RET	MISC	104-63
9	5552	SE5552T	PHIN	VOLT REG	67-15	119	5606	R5606	RET	MISC	104-64
10	5552	SE5552T	VALG	VOLT REG	67-15	120	5609	R5609	RET	MISC	104-65
11	5552	NE5552N	MULB	VOLT REG	67-16	121	5611	R5611	RET	MISC	104-66
12	5552	NE5552N	PHIN	VOLT REG	67-16	122	5612	R5612	RET	MISC	104-67
13	5552	NE5552N	VALG	VOLT REG	67-16	123	5613	R5613	RET	MISC	104-68
14	5552	NE5552T	MULB	VOLT REG	67-14	124	5614	R5614	RET	MISC	104-69
15	5552	NE5552T	PHIN	VOLT REG	67-14	125	5615	R5615	RET	MISC	104-70
16	5552	NE5552T	VALG	VOLT REG	67-14	126	5616	R5616	RET	MISC	104-71
17	5553	SE5553F	SIC	VOLT REG	70-48	127	5620	R5620	RET	MISC	104-72
18	5553	SE5553F	VALG	VOLT REG	70-48	128	5620	R5620#ai	RET	MISC	104-73
19	5553	SE5553H	PHIN	VOLT REG	62-75	129	5621	R5621	RET	MISC	104-74
20	5553	SE5553H	SIC	VOLT REG	62-75	130	5622	R5622	RET	MISC	104-75
21	5553	SE5553H	VALG	VOLT REG	62-75	131	5630	R5630	RET	MISC	104-76
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24	5553	SE5553N	SIC	VOLT REG	70-71	134	5632	R5632(A)	RET	MISC	104-78
25	5553	SE5553N	VALG	VOLT REG	70-71	135	5633	R5633	RET	MISC	104-79
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27	5553	SE5553T	PHIN	VOLT REG	70-61	137	5733	N5733G	MULB	WIDEBD AMP	59-95
28	5553	SE5553T	VALG	VOLT REG	70-61	138	5733	N5733G	PHIN	WIDEBD AMP	59-95
29	5553	SE5553U	PHIN	VOLT REG	62-76	139	6078	CA6078AH	RCA	OP AMP	21-62
30	5553	SE5553U	SIC	VOLT REG	62-76	140	6078	CA6078AS	RCA	OP AMP	21-63
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32	5553	NE5553F	SIC	VOLT REG	70-47	142	6110	BA6110	RHMJ	OP AMP	45-103
33	5553	NE5553F	VALG	VOLT REG	70-47	143	6172	MC6172L	MOTA	MISC	100-83
34	5553	NE5553H	PHIN	VOLT REG	62-71	144	6172	MC6172P	MOTA	MISC	100-84
35	5553	NE5553H	SIC	VOLT REG	62-71	145	6300	LAS6300	LAM	MISC	99-62
36	5553	NE5553H	VALG	VOLT REG	62-71	146	6300	LAS6300L(A)	LAM	VOLT REG	81-27
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38	5553	NE5553N	PHIN	VOLT REG	70-69	148	6300	AM6300DM(A)	AMD	VOLT REG	63-25
39	5553	NE5553N	SIC	VOLT REG	70-69	149	6300	AM6300PC(A)	AMD	VOLT REG	63-26
40	5553	NE5553N	VALG	VOLT REG	70-69	150	6301	LA56301	LAM	MISC	99-64
41	5553	NE5553T	MULB	VOLT REG	70-59	151	6301	AM6301DC	AMD	MISC	99-55
42	5553	NE5553T	PHIN	VOLT REG	70-59	152	6301	AM6301DL	AMD	MISC	99-56
43	5553	NE5553T	VALG	VOLT REG	70-59	153	6301	AM6301PC	AMD	MISC	99-57
44	5553	NE5553U	PHIN	VOLT REG	62-72	154	6302	LA56302	LAM	MISC	99-65
45	5553	NE5553U	SIC	VOLT REG	62-72	155	6324	LA6324	TSAJ	OP AMP	45-74
46	5553	NE5553U	VALG	VOLT REG	62-72	156	6324	LA6324M	TSAJ	OP AMP	45-75
47	5554	SE5554F	SIC	VOLT REG	73-45	157	6330	LA56330	LAM	MISC	99-66
48	5554	SE5554F	VALG	VOLT REG	73-45	158	6331	LA56331	LAM	MISC	99-67
49	5554	SE5554H	PHIN	VOLT REG	62-77	159	6332	LA56332	LAM	MISC	99-68
50	5554	SE5554H	SIC	VOLT REG	62-77	160	6339	LA6339	TSAJ	OP AMP	46-45
51	5554	SE5554H	VALG	VOLT REG	62-77	161	6339	LA6339M	TSAJ	OP AMP	46-46
52	5554	SE5554N	MULB	VOLT REG	73-49	162	6342	AN6342N	MATJ	MISC	104-7
53	5554	SE5554N	PHIN	VOLT REG	73-49	163	6358	LA6358	TSAJ	OP AMP	45-72
54	5554	SE5554N	SIC	VOLT REG	73-49	164	6358	LA6358M	TSAJ	OP AMP	45-73
55	5554	SE5554N	VALG	VOLT REG	73-49	165	6393	LA6393D	TSAJ	OP AMP	46-43
56	5554	SE5554T	MULB	VOLT REG	73-47	166	6393	LA6393M	TSAJ	OP AMP	46-30
57	5554	SE5554T	PHIN	VOLT REG	73-47	167	6393	LA6393S	TSAJ	OP AMP	46-44
58	5554	SE5554T	VALG	VOLT REG	73-47	168	6458	LA6458D	TSAJ	OP AMP	22-79
59	5554	SE5554U	PHIN	VOLT REG	62-78	169	6458	LA6458M	TSAJ	OP AMP	23-102
60	5554	SE5554U	SIC	VOLT REG	62-78	170	6458	LA6458S	TSAJ	OP AMP	22-80
61	5554	SE5554U	VALG	VOLT REG	62-78	171	6552	AN6552	MATJ	OP AMP	22-78
62	5554	NE5554F	SIC	VOLT REG	73-44	172	6553	AN6553	MATJ	OP AMP	24-18
63	5554	NE5554F	VALG	VOLT REG	73-44	173	6554	AN6554	MATJ	OP AMP	48-28
64	5554	NE5554H	PHIN	VOLT REG	62-73	174	6562	AN6562	MATJ	OP AMP	42-39
65	5554	NE5554H	SIC	VOLT REG	62-73	175	6564	AN6564	MATJ	OP AMP	44-46
66	5554	NE5554H	VALG	VOLT REG	62-73	176	6741	CA6741S	RCA	OP AMP	29-98
67	5554	NE5554N	MULB	VOLT REG	73-48	177	6741	CA6741T	RCA	OP AMP	29-99
68	5554	NE5554N	PHIN	VOLT REG	73-48	178	6811	AN6811	MATJ	MISC	100-101
69	5554	NE5554N	SIC	VOLT REG	73-48	179	6820	AN6820	MATJ	MISC	100-102
70	5554	NE5554N	VALG	VOLT REG	73-48	180	6821	AN6821	MATJ	MISC	100-103
71	5554	NE5554T	MULB	VOLT REG	73-46	181	6862	MC6862CL	MOTA	MISC	100-85
72	5554	NE5554T	PHIN	VOLT REG	73-46	182	6862	MC6862CP	MOTA	MISC	100-86
73	5554	NE5554T	VALG	VOLT REG	73-46	183	6862	MC6862CS	MOTA	MISC	100-87
74	5554	NE5554U	PHIN	VOLT REG	62-74	184	6862	MC6862S	MOTA	MISC	100-88
75	5554	NE5554U	SIC	VOLT REG	62-74	185	6875	AN6875	MATJ	MISC	100-104
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77	5555	SE5555N	MULB	VOLT REG	70-72	187	6912	AN6912	MATJ	VOLT COMP	88-100
78	5555	SE5555N	PHIN	VOLT REG	70-72	188	6914	AN6914	MATJ	VOLT COMP	88-48
79	5555	SE5555N	VALG	VOLT REG	70-72	189	7115	AD7115BQ	ANA	SPECIAL	92-13
80	5555	SE5555T	MULB	VOLT REG	70-62	190	7115	AD7115KN	ANA	SPECIAL	92-15
81	5555	SE5555T	PHIN	VOLT REG	70-62	191	7115	AD7115TD(M)	ANA	SPECIAL	92-14
82	5555	SE5555T	VALG	VOLT REG	70-62	192	7245	TA7245BP	TOSJ	MISC	105-76
83	5555	NE5555N	MULB	VOLT REG	70-70	193	7247	TA7247AP	TOSJ	MISC	105-77
84	5555	NE5555N	PHIN	VOLT REG	70-70	194	7248	TA7248P	TOSJ	MISC	105-78
85	5555	NE5555N	VALG	VOLT REG	70-70	195	7256	TA7256P(A)	TOSJ	MISC	105-79
86	5555	NE5555T	MULB	VOLT REG	70-60	196	7257	TA7257P	TOSJ	MISC	105-80
87	5555	NE5555T	PHIN	VOLT REG	70-60	197	7259	TA7259P	TOSJ	MISC	105-81
88	5555	NE5555T	VALG	VOLT REG	70-60	198	7260	TA7260P	TOSJ	MISC	105-82
89	5560	SE5560F	PHIN	MISC	99-75	199	7261	TA7261P	TOSJ	MISC	105-83
90	5560	SE5560F	SIC	MISC	99-75	200	7262	TA7262P(A)	TOSJ	MISC	105-84
91	5560	SE5560F	VALG	MISC	99-75	201	7267	TA7267P	TOSJ	MISC	105-85
92	5560	SE5560N	PHIN	MISC	99-76	202	7351	uA7351DC#1	FSC	OP AMP	21-48
93	5560	SE5560N	SIC	MISC	99-76	203	7354	TA7354P	TOSJ	MISC	105-86
94	5560	SE5560N	VALG	MISC	99-76	204	7392	uA7392DC	FSC	MISC	105-98
95	5560	NE5560D	SIC	MISC	99-69	205	7392	uA7392DM	FSC	MISC	105-99
96	5560	NE5560F	PHIN	MISC	99-70	206	7392	uA7392PC	FSC	MISC	105-100
97	5560	NE5560F	SIC	MISC	99-70	207	7500	LC7500	TSAJ	MISC	101-20
98	5560	NE5560F	VALG	MISC	99-70	208	7525	AD7525BD	ANA	SPECIAL	92-88
99	5560	NE5560N	PHIN	MISC	99-71	209	7525	AD7525CD	ANA	SPECIAL	92-89
100	5560	NE5560N	SIC	MISC	99-71	210	7525	AD7525KN	ANA	SPECIAL	92-90
101	5560	NE5560N	VALG	MISC	99-71	211	7525	AD7525LN	ANA	SPECIAL	92-91
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103	5561	SE5561N	SIC	MISC	99-78	213	7525	AD7525UD	ANA	SPECIAL	92-93
104	5561	NE5561D	SIC	MISC	99-72	214	7600	ICL7600CPDZ	INL	OP AMP	21-50
105	5561	NE5561FE	SIC	MISC	99-73	215	7600	ICL7600JDZ	INL	OP AMP	21-53
106	5561	NE5561N	SIC	MISC	99-74	216	7600	ICL7600JDDZ	INL	OP AMP	21-55
107	5601	R5601	RET	MISC	104-52	217	7601	ICL7601CPDZ	INL	OP AMP	21-51
108	5602	R5602	RET	MISC	104-53	218	7601	ICL7601JDDZ	INL	OP AMP	21-54
109	5602	R5602-1	RET	MISC	104-54	219	7601	ICL7601MJD	INL	OP AMP	21-56
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40	7918	7918CDA	VALG	VOLT REG	76-73	150	8075	ICL8075-0D1LCTV	INL	SPECIAL	96-57
41	7918	7918CU	MULB	VOLT REG	76-74	151	8075	ICL8075-0D1LCTV	INL	SPECIAL	96-58
42	7918	7918CU	VALG	VOLT REG	76-74	152	8076	ICL8076-1D0LCTV	INL	SPECIAL	90-1
43	7918	7918DA	MULB	VOLT REG	76-75	153	8076	ICL8076-1D0LCTV	INL	SPECIAL	96-59
44	7918	7918DA	VALG	VOLT REG	76-75	154	8077	ICL8077-2B5LCTV	INL	SPECIAL	96-60
45	7918	uA7918CCKA	TII	VOLT REG	76-40	155	8077	ICL8077-2B5LCTV	INL	SPECIAL	96-61
46	7918	uA7918CKC	TII	VOLT REG	76-37	156	8077	ICL8077-2D5LCTV	INL	SPECIAL	96-62
47	7918	uA7918MKA	TII	VOLT REG	76-41	157	8077	ICL8077-2D5LCTV	INL	SPECIAL	96-63
48	7918	uPC7918H	NECE	VOLT REG	80-102	158	8078	ICL8078-5B1LCTV	INL	SPECIAL	96-64
49	7918	uPC7918H	NECJ	VOLT REG	80-102	159	8078	ICL8078-5B1LCTV(A)	INL	SPECIAL	96-65
50	7920	SG7920ACP	SGL	VOLT REG	78-12	160	8078	ICL8078-5D0LCTV	INL	SPECIAL	96-66
51	7920	SG7920ACP	SGL	VOLT REG	78-110	161	8078	ICL8078-5D0LCTV	INL	SPECIAL	96-67
52	7920	SG7920ACT	SGL	VOLT REG	78-6	162	8079	ICL8079-10BLCTV	INL	SPECIAL	96-68
53	7920	SG7920ACT	SGL	VOLT REG	78-101	163	8079	ICL8079-10BLCTV	INL	SPECIAL	96-69
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55	7920	SG7920AR	SGL	VOLT REG	79-7	165	8079	ICL8079-10DLCTV	INL	SPECIAL	96-71
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58	7920	SG7920CP	SGL	VOLT REG	79-1	168	8126	ULN8126B	SPR	MISC	99-97
59	7920	SG7920CR	SGL	VOLT REG	79-8	169	8126	ULQ8126A	SPR	MISC	99-100
60	7920	SG7920CT	SGL	VOLT REG	78-103	170	8126	ULQ8126B	SPR	MISC	99-101
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68	7924	7924CU	MULB	VOLT REG	80-50	178	8205	ML8205AE	MITC	MISC	101-44
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42	13700	LM13700AJ	NSC	OP AMP	48- 33	152	42092	MIOV42092-106	MPI	MISC	100- 7
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8	51709	M51709P	MITJ	OP AMP	39- 9						
9	51742	M51742AP	MITJ	MISC	101- 30						
10	51802	M51802P	MITJ	OP AMP	29- 14						
11	51841	M51841P	MITJ	MISC	101- 31						
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18	52709	SN52709AJP	TII	OP AMP	34- 4						
19	72811	SN72811N	TII	VOLT COMP	85- 15						
20	75339	TA75339P	TOSJ	VOLT COMP	82- 80						
21	75358	TA75358P	TOSJ	OP AMP	23- 88						
22	75393	TA75393P	TOSJ	VOLT COMP	82- 81						
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24	75458	TA75458P	TOSJ	OP AMP	24- 4						
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26	75558	TA75558P	TOSJ	OP AMP	24- 3						
27	75558	TA75558S	TOSJ	OP AMP	24- 19						
28	75902	TA75902P	TOSJ	OP AMP	23- 89						
29	76602	SN76602N(A)	TII	MISC	105- 75						
30	78005	TA78005AP	TOSJ	VOLT REG	65- 73						
31	78006	TA78006AP	TOSJ	VOLT REG	67- 59						
32	78008	TA78008AP	TOSJ	VOLT REG	69- 8						
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37	78018	TA78018AP	TOSJ	VOLT REG	77- 8						
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78H05KC	*FSC	64 - 35	78M15DB	MULB	74 - 38	425	*OPA	55 - 70	3581JM	*BUB	56 - 30	9491BJ	TSC	95 - 48
78H05CDA	MULB	66 - 22	78M20CDB	VALG	78 - 96	425Q	*OPA	56 - 3	3582J	*BUB	56 - 35	9491BM	TSC	95 - 49
	PHIN			MULB		425T	*OPA	55 - 71	3583JM	*BUB	56 - 36	9495AE	*TSC	96 - 7
78H05CU	MULB	66 - 23	78M20CU	VALG	78 - 106	430J	*SSE	93 - 24	3583AM	*BUB	56 - 42	9495BE	*TSC	96 - 8
	PHIN			MULB		430KF	*SSE	93 - 30	3583JM	*BUB	56 - 43	9495CE	*TSC	96 - 9
78H05DA	MULB	66 - 24	78M20DB	VALG	78 - 97	433	*OPA	55 - 72	3584JM	*BUB	56 - 37	9495DJ	*TSC	96 - 10
	PHIN			MULB		434	*OPA	55 - 73	3627AM	*BUB	57 - 71	9495DE	*TSC	96 - 11
78H06CDA	MULB	67 - 82	78M24CDB	VALG	80 - 43	440Z	*SSE	93 - 25	3627BM	*BUB	57 - 70	9495DJ	*TSC	96 - 12
	PHIN			MULB		440KF	*SSE	93 - 31	3802	*DMC	94 - 48	9495EE	*TSC	96 - 13
78H06CU	MULB	67 - 83	78M24CU	VALG	80 - 58	450KF	SSE	93 - 32	3803	DMC	94 - 49	9495HE	*TSC	96 - 14
	PHIN			MULB		460KF	SSE	93 - 33	3804	DMC	94 - 50	9495HJ	*TSC	96 - 15
78H06DA	MULB	67 - 84	78M24DB	VALG	80 - 44	470KF	SSE	93 - 34	3805	*DMC	94 - 51	9496AE	*TSC	96 - 16
	PHIN			MULB		480KF	SSE	93 - 35	3806	DMC	94 - 52	9496BF	*TSC	96 - 17
78H08CDA	MULB	69 - 39	78MHV05CDB	VALG	66 - 17	791	*SSE	106 - 69	3807	DMC	94 - 53	9496CE	*TSC	96 - 18
	PHIN			MULB		1321	*TPN	35 - 22	3810	*DMC	94 - 54	9496CJ	*TSC	96 - 19
78H08CU	MULB	69 - 40	78MHV05CU	VALG	66 - 19	1321-01	*TPN	35 - 23	3811	DMC	94 - 55	9496DE	*TSC	96 - 20
	PHIN			MULB		1322	*TPN	38 - 70	3812	DMC	94 - 56	9496DJ	*TSC	96 - 5
78H08DA	MULB	69 - 41	78MHV05DB	VALG	66 - 20	1322-01	*TPN	41 - 99	4010Z	*MDI	90 - 3	9496EE	*TSC	96 - 20
	PHIN			MULB		1323	*TPN	27 - 80	4012	*MDI	92 - 65	9496HE	*TSC	96 - 21
78HV12CDA	MULB	72 - 43	78MHV06CDB	VALG	67 - 77	1332	*TPN	56 - 12	4203J	*BUB	91 - 74	9496HJ	*TSC	96 - 6
	PHIN			MULB		1340	*TPN	35 - 77	4203K	*BUB	91 - 75	9908	*OEI	42 - 44
78HV12CU	MULB	72 - 44	78MHV06CU	VALG	67 - 79	1421-01A	*TPN	23 - 91	4203S	*BUB	91 - 76	9909	*OEI	45 - 64
	PHIN			MULB		1421-02A	*TPN	23 - 90	4203SQ	*BUB	91 - 77	9915	*OEI	83 - 6
78HV12DA	MULB	72 - 45	78MHV06DB	VALG	67 - 80	1421A	*TPN	23 - 92	4205J	*BUB	91 - 34	9916	*OEI	42 - 62
	PHIN			MULB		1424A	*TPN	23 - 103	4205K	*BUB	91 - 35	9917	*OEI	22 - 72
78HV14CDA	MULB	72 - 73	78MHV08CDB	VALG	69 - 34	1425-01A	*TPN	23 - 97	4205S	*BUB	91 - 36	600133-1	CMJ	104 - 9
	PHIN			MULB		1425-02A	*TPN	23 - 95	4213AM	*BUB	90 - 83	600133-2	CMJ	104 - 10
78HV14CU	MULB	72 - 74	78MHV08CU	VALG	69 - 36	1425A	*TPN	23 - 98	4213BM	*BUB	90 - 84	600134-1	CMJ	104 - 11
	PHIN			MULB		1426-01A	*TPN	23 - 93	4213SM	*BUB	90 - 85	600134-2	CMJ	104 - 12
78HV14DA	MULB	72 - 75	78MHV08DB	VALG	69 - 37	1426-02A	*TPN	23 - 96	4780D	TPN	93 - 106	A8495 #1	*ITI	91 - 15
	PHIN			MULB		1426-03A	*TPN	23 - 94	4781D	TPN	93 - 107	AD101AH	*ANA	50 - 7
78HV15CDA	MULB	75 - 51	78MHV12CDB	VALG	72 - 38	1426A	*TPN	23 - 99	5002	MDI	40 - 97	AD201AH	*ANA	32 - 100
	PHIN			MULB		1437B	*TPN	61 - 90	7805CDA	VALG	65 - 91	AD201AN	*ANA	33 - 77
78HV15CU	MULB	75 - 52	78MHV12CU	VALG	72 - 40	1437B-83	*TPN	61 - 91	7805CU	VALG	65 - 75	AD301AH	*ANA	33 - 23
	PHIN			MULB		1438B	TPN	61 - 36	7805DA	VALG	65 - 92	AD301ALH	*ANA	32 - 60
78HV15DA	MULB	75 - 53	78MHV12DB	VALG	72 - 41	1438B-83	TPN	61 - 37	7806CDA	VALG	67 - 69	AD301ALN	*ANA	32 - 61
	PHIN			MULB		1443D	*TPN	35 - 41	7806CU	VALG	67 - 61	AD301AN	*ANA	44 - 21
78HV18CDA	MULB	77 - 30	78MHV15CDB	VALG	75 - 46	1443D-83	*TPN	35 - 40	7806DA	VALG	67 - 70	AD346JD	*ANA	94 - 97
	PHIN			MULB		1460B	*TPN	53 - 70	7808CDA	VALG	69 - 23	AD346SD #mil	*ANA	94 - 98
78HV18CU	MULB	77 - 31	78MHV15CU	VALG	75 - 48	1461C	*TPN	56 - 4	7808CU	VALG	69 - 10	AD380JH	*ANA	61 - 78
	PHIN			MULB		1461C-83	*TPN	56 - 5	7808DA	VALG	69 - 24	AD380KH	*ANA	61 - 79
78HV18DA	MULB	77 - 32	78MHV15DB	VALG	75 - 49	1480B	*TPN	56 - 33	7812CDA	VALG	72 - 2	AD380LH	*ANA	61 - 80
	PHIN			MULB		1480B-83	*TPN	56 - 34	7812CU	VALG	71 - 92	AD380SH #mil	*ANA	61 - 81
78HV24CDA	MULB	80 - 89	78MHV18CDB	VALG	77 - 28	2003	*TPN	90 - 34	7812DA	VALG	72 - 3	AD381JH	*ANA	32 - 98
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78HV24CU	MULB	80 - 90	78MHV20CDB	VALG	79 - 29	2035	*TPN	61 - 88	7815CU	VALG	74 - 56	AD381LH	*ANA	32 - 59
	PHIN			MULB		2035-83	*TPN	61 - 89	7815DA	VALG	74 - 66	AD381SH #mil	*ANA	32 - 79
78HV24DA	MULB	80 - 91	78MHV20DB	VALG	79 - 31	2108A	AMD	53 - 37	7818CDA	VALG	76 - 87	AD381TH #mil	*ANA	32 - 62
	PHIN			MULB		2392	*MDI	42 - 45	7818CU	VALG	76 - 76	AD382JH	*ANA	34 - 14
78L02ACDB	MULB	63 - 29	78MHV24CDB	PHIN	80 - 84	3001	*SSE	33 - 89	7818DA	VALG	76 - 88	AD382KH	*ANA	33 - 109
	PHIN			MULB		3002	SSE	39 - 43	7824CDA	VALG	80 - 67	AD382LH	*ANA	33 - 107
78L02ACS	MULB	63 - 30	78MHV24CU	PHIN	80 - 86	3010	*ITI	100 - 96	7824CU	VALG	80 - 59	AD382SH #mil	*ANA	33 - 110
	PHIN			MULB		3030	ITI	100 - 97	7824DA	VALG	30 - 68	AD382TH #mil	*ANA	33 - 108
78L02CDB	MULB	63 - 31	78MHV24DB	PHIN	80 - 87	3041	*ITI	98 - 39	7905CDA	MULB	65 - 62	AD503J	*INL	40 - 29
	PHIN			MULB		3050	*ITI	98 - 40	7905CU	PHIN	65 - 63	AD503JH	*ANA	40 - 30
78L02CS	MULB	63 - 32	79M05CDB	PHIN	64 - 76	3420	*OEI	106 - 70		MULB	65 - 64	AD503K	*INL	40 - 17
	PHIN			MULB		3421	*OEI	106 - 71		VALG	65 - 64	AD503KH	*ANA	40 - 18
78L05ACDB	MULB	64 - 59	79M05CU	VALG	64 - 77	3500A	*BUB	33 - 3	7905DA	MULB	65 - 64	AD503S	*INL	40 - 24
	PHIN			MULB		3500B	*BUB	32 - 67		VALG	66 - 76	AD503SH	*ANA	40 - 25
78L05ACS	MULB	64 - 51	79M05DB	VALG	64 - 78	3500C	*BUB	32 - 54	7905.2CDA	MULB	66 - 76	AD504JH	*ANA	34 - 91
	PHIN			MULB		3500E	*BUB	32 - 52		VALG	66 - 77	AD504KH	*ANA	32 - 55
78L05CDB	MULB	64 - 60	79M05.2CDB	VALG	66 - 72	3500MP	*BUB	45 - 51	7905.2CU	MULB	66 - 77	AD504LH	*ANA	32 - 53
	PHIN			MULB		3500R	*BUB	33 - 4		VALG	66 - 78	AD504MH	*ANA	27 - 22
78L05CS	MULB	64 - 52	79M05.2CU	VALG	66 - 73	3500S	*BUB	32 - 81	7905.2DA	MULB	66 - 78	AD504SH	*ANA	54 - 25
	PHIN			MULB		3500T	*BUB	32 - 64		VALG	67 - 51	AD506JH	*ANA	40 - 28
78L06ACS	MULB	67 - 89	79M05.2DB	VALG	66 - 74	3500U(M)	*BUB	52 - 11	7906CDA	MULB	67 - 51	AD506KH	*ANA	40 - 14
	PHIN			MULB		3501A	*BUB	57 - 97		VALG	67 - 52	AD506LH	*ANA	27 - 60
78L06CS	MULB	67 - 90	79M06CDB	VALG	67 - 18	3501B	*BUB	57 - 95	7906CU	MULB	67 - 52	AD506SH	*ANA	40 - 22
	PHIN			MULB		3501C	*BUB	57 - 94		VALG	67 - 53	AD507JH	*ANA	39 - 3
78L12ACDB	MULB	71 - 70	79M06CU	VALG	67 - 19	3501R	*BUB	57 - 98	7906DA	MULB	67 - 53	AD507KH	*ANA	39 - 44
	PHIN			MULB		3501S	*BUB	57 - 96		VALG	69 - 108	AD507SH	*ANA	27 - 63
78L12ACS	MULB	71 - 59	79M06DB	VALG	67 - 20	3507J	BUB	38 - 76	7908CDA	MULB	68 - 108	AD509JH	*ANA	38 - 67
	PHIN			MULB		3508J	BUB	35 - 24		VALG	68 - 109	AD509KH	*ANA	38 - 74
78L12CDB	MULB	71 - 71	79M08CDB	VALG	68 - 71	3510AM	*BUB	29 - 48	7908CU	MULB	68 - 109	AD509SH	*ANA	38 - 75
	PHIN			MULB		3510BM	*BUB	29 - 45		VALG	68 - 110	AD510JH	*ANA	34 - 80
78L12CS	MULB	71 - 60	79M08CU	VALG	68 - 72	3510CM	*BUB	29 - 44	7908DA	MULB	68 - 110	AD510KH	*ANA	32 - 48
	PHIN			MULB		3510SM	*BUB	29 - 46		VALG	71 - 80	AD510LH	*ANA	32 - 46
78L15ACDB	MULB	74 - 35	79M08DB	VALG	68 - 73	3510VM(M)	*BUB	52 - 9	7912CDA	MULB	71 - 80	AD510SH #mil	*ANA	32 - 49
	PHIN			MULB		3521H	*BUB	35 - 8		VALG	71 - 81	AD515JH	*ANA	29 - 9
78L15ACS	MULB	74 - 24	79M12CDB	VALG	70 - 78	3521J	*BUB	34 - 82	7912CU	MULB	71 - 81	AD515KH	*ANA	29 - 5
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AD528J	ANA	40-23	AD534TD#3	ANA	91-101	AD637K	ANA	93-46	AH11-1	ALP	60-101	AM1500DM	*AMD	86-65
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AD530JD#1	ANA	91-40	AD534TH#3	ANA	91-102	AD642KH	ANA	32-80	AH0013CB	OEI	61-33	AM6300DM(A)	*AMD	63-25
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AD530JD#3	ANA	92-94	AD535JH	ANA	92-81	AD642SH	ANA	32-99	AH0013MB	OEI	61-35	AM6301DC	*AMD	99-55
AD530JH#1	ANA	91-60	AD535KD	ANA	92-82	AD644JH	ANA	22-16	AH15	ALP	60-103	AM6301DC	*AMD	99-56
AD530JH#2	ANA	92-5	AD535KH	ANA	92-83	AD644KH	ANA	22-13	AH17	ALP	60-104	AM6301PC	*AMD	99-57
AD530JH#3	ANA	93-6	AD536AJD	ANA	93-36	AD644LH	ANA	22-12	AH18	ALP	60-99	AM7650-1C	*DTL	24-12
AD530KD#1	ANA	91-41	AD536AJH	ANA	93-37	AD644SH	ANA	22-17	AH19	ALP	60-105	AM7650-2C	*DTL	24-7
AD530KD#2	ANA	91-104	AD536AKD	ANA	93-38	AD644SH/833B	ANA	22-18	AH23	ALP	61-10	AMLM108	AMD	49-63
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AD530KH#3	ANA	93-7	AD537JD	ANA	94-32	AD647SH/883B(M)	ANA	22-28	AH28	ALP	61-14	AMLM108D	AMD	49-64
AD530LD#1	ANA	91-62	AD537JH	ANA	94-33				AH29	ALP	61-15	AMLM108F	AMD	49-65
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AD530LD#3	ANA	93-8	AD537KH	ANA	94-35	AD650JQ	ANA	94-61	AH33	ALP	61-26	AMLM111D	AMD	86-78
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AD530SH#1	ANA	91-65	AD539S	ANA	91-90	AD741JH	ANA	33-62	AH56	ALP	60-68	AMLM119H	AMD	87-63
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AD532KD#2	ANA	92-98	AD547KH	ANA	27-34	AD2701JD	ANA	102-31	AH403	ALP	61-68	AMLM219AD	AMD	82-71
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AD532KH#2	ANA	92-99	AD547SH#mil	ANA	27-50	AD2701SD/883B(M)	ANA	102-33	AH521	ALP	60-89	AMLM307D	AMD	33-24
AD532S#mil	ANA	91-33	AD580JH	ANA	63-17				AH522#	ALP	60-90	AMLM308	AMD	28-11
AD532SD#1	ANA	91-46	AD580KH	ANA	63-18	AD2701UD/883B(M)	ANA	102-34	AH591	ALP	60-72	AMLM308A	AMD	28-41
AD532SD#2	ANA	92-100			94-92				AH592	ALP	60-73	AMLM308AD	AMD	28-42
AD532SH#1	ANA	91-47	AD580LH	ANA	63-19	AD2702JD	ANA	102-35	AH593	ALP	61-69	AMLM308D	AMD	28-12
AD532SH#2	ANA	92-101	AD580MH	ANA	63-20	AD2702LD	ANA	102-36	AH594	ALP	60-74	AMLM311	AMD	87-56
AD533JD#1	ANA	91-48	AD580SH/883B	ANA	63-21	AD2702SD/883B(M)	ANA	102-37	AH4013	ALP	61-74	AMLM311D	AMD	87-57
AD533JD#2	ANA	92-102	AD580TH/883B(M)	ANA	63-22				AH4077	ALP	61-75	AMLM318	AMD	52-62
AD533JD#3	ANA	91-105							AH4229	ALP	60-91	AMLM318D	AMD	52-63
AD533JH#1	ANA	91-49	AD580UH/883B(M)	ANA	63-23	AD2720TH/883B(M)	ANA	102-38	AH4230	ALP	60-92	AMLM319D	AMD	87-79
AD533JH#2	ANA	92-103							AH4239	ALP	60-93	AMLM319H	AMD	87-80
AD533JH#3	ANA	91-106	AD581JH	ANA	102-14	AD2710KN	ANA	96-28	AH554#	ALP	60-94	AMLM319N	AMD	87-81
AD533KD#1	ANA	91-50	AD581KH	ANA	102-15	AD2710LN	ANA	96-29	AH555#	ALP	59-59	AMLM319N	AMD	82-73
AD533KD#2	ANA	92-104	AD581LH	ANA	102-16	AD2712LN	ANA	96-30	AH557	ALP	59-60	AMLM339AD	AMD	82-74
AD533KD#3	ANA	91-107	AD581SH/883B(M)	ANA	102-17	AD2720CH(M)	ANA	96-54	AH560	ALP	60-64	AMLM339D	AMD	82-75
AD533KH#1	ANA	91-51							AH561	ALP	60-95	AMLM339N	AMD	82-76
AD533KH#2	ANA	92-105	AD581TH/883B(M)	ANA	102-18	AD2720SH/883B(M)	ANA	96-55	AM303A	*DTL	56-32	AMSSS747CK	AMD	30-71
AD533KH#3	ANA	91-108							AM303B	*DTL	56-31	AN605	MATJ	100-100
AD533LD#1	ANA	91-52	AD581UH/883B(M)	ANA	102-19				AM410-2C	*DTL	41-81	AN1339	MATJ	88-90
AD533LD#2	ANA	92-106							AM410-2M	*DTL	41-33	AN1358	MATJ	45-76
AD533LD#3	ANA	92-1	AD582KD	ANA	94-93	AD3554AH	ANA	61-85	AM411-2C	*DTL	41-82	AN1393	MATJ	88-47
AD533LH#1	ANA	91-53	AD582KH	ANA	94-94	AD3554SH#mil	ANA	61-86	AM411-2M	*DTL	41-34	AN1458	MATJ	24-14
AD533LH#2	ANA	92-107	AD582SD#mil	ANA	94-95	AD7115BQ	ANA	92-13	AM414A	*DTL	35-88	AN1741	MATJ	24-15
AD533LH#3	ANA	92-2	AD582SH#mil	ANA	94-96	AD7115KN	ANA	92-15	AM414B	*DTL	35-80	AN4250	MATJ	24-16
AD533SD#1	ANA	91-54	AD583K	ANA	35-72	AD7115TD(M)	ANA	92-14	AM414M	*DTL	35-81	AN4558	MATJ	24-17
AD533SD#2	ANA	92-108	AD584JH	ANA	102-20	AD7525BD	ANA	92-88	AM427-1A	*DTL	55-24	AN6342N	MATJ	104-7
AD533SD#3	ANA	92-3	AD584KH	ANA	102-21	AD7525CD	ANA	92-89	AM427-1B	*DTL	55-22	AN6552	*MATJ	22-78
AD533SH#1	ANA	91-55	AD584KH	ANA	102-22	AD7525KN	ANA	92-90	AM427-1M	*DTL	55-25	AN6553	MATJ	24-18
AD533SH#2	ANA	93-1	AD584LH	ANA	102-23	AD7525LN	ANA	92-91	AM427-2A	*DTL	55-26	AN6554	MATJ	48-28
AD533SH#3	ANA	92-4	AD584SH/883B(M)	ANA	102-24	AD7525TD	ANA	92-92	AM427-2B	*DTL	55-23	AN6562	MATJ	42-39
AD534J	ANA	91-29							AM427-2M	*DTL	55-27	AN6564	MATJ	44-46
AD534JD#1	ANA	91-1	AD584SH#mil	ANA	102-25	AD8007C	ANA	38-88	AM430A	*DTL	52-46	AN6811	MATJ	100-101
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CA082AE	RCA	44-65	CA3015	RCA	26-78	CA3140S#1	RCA	38-25	CJSE072	SODI	63-40	GPD1003	AVA	60-11
CA082AT	RCA	45-4	CA3015A	RCA	26-74	CA3140T#1	RCA	38-26	CMP01CP	PMI	86-82	GPD1061	AVA	60-17
CA082AS	RCA	45-5	CA3015H	RCA	26-73	CA3160AE	RCA	22-33	CMP01CZ	PMI	86-87	GPD1062	AVA	60-18
CA082BC	RCA	44-53	CA3016	RCA	26-79	CA3160AS	RCA	22-34	CMP01EZ	PMI	86-73	GPD1063	AVA	60-12
CA082BS	RCA	45-19	CA3016A	RCA	26-75	CA3160AT	RCA	22-35	CMP01GR	PMI	86-83	GPL1001	AVA	103-34
CA082CT	RCA	45-20	CA3020	RCA	59-50	CA3160BS	RCA	22-41	CMP01N	PMI	86-68	HA1-2600-2	INL	34-29
CA082E	RCA	44-79		RCA		CA3160BT	RCA	22-42	CMP01Z#mil	PMI	86-75	HA1-2602-2	INL	34-34
CA082S	RCA	45-13	CA3020A	RCA	59-51	CA3160E	RCA	22-36	CMP02CJ	PMI	86-85	HA1-2605-5	INL	34-35
CA082T	RCA	45-14		RCA		CA3160H	RCA	22-37	CMP02CP	PMI	86-86	HA1-2620-2	INL	34-22
CA083AE	RCA	44-66	CA3021	RCA	59-31	CA3160S	RCA	22-38	CMP02CZ	PMI	86-88	HA1-2622-2	INL	34-36
CA083BE	RCA	44-54	CA3022	RCA	59-32	CA3160T	RCA	22-39	CMP02EJ	PMI	86-70	HA1-2625-5	INL	34-37
CA083E	RCA	44-80	CA3023	RCA	59-33	CA3164E	RCA	100-108	CMP02EP	PMI	86-71	HA1-4741-8	RTN	36-1
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CA084E	RCA	48-36	CA3026H	RCA	57-52	CA3193AE	RCA	44-87	CMP02J	PMI	86-72	HA2-2505-5	INL	38-59
CA101E	RCA	54-81	CA3028A	RCA	57-60	CA3193AS	RCA	44-88	CMP02N	PMI	86-69	HA2-2510-2	INL	38-62
CA101S	RCA	51-12		RCA		CA3193AT	RCA	44-89	CMP02Z#mil	PMI	86-76	HA2-2512-2	INL	38-77
CA101T	RCA	51-13	CA3028AH	RCA	57-61	CA3193BE	RCA	44-84	CMP04G#ai	PMI	88-29	HA2-2515-5	INL	38-78
CA124E	RCA	21-7		RCA		CA3193BS	RCA	44-85	CMP04N#ai	PMI	88-28	HA2-2520-2	INL	38-63
CA139E	RCA	82-50	CA3028AS	RCA	57-62	CA3193BT	RCA	44-86	CMP05AJ(M)	PMI	86-28	HA2-2522-2	INL	38-79
CA139E	RCA	82-51		RCA		CA3193E	RCA	44-90	CMP05AZ(M)	PMI	86-29	HA2-2525-5	INL	38-80
CA139G	RCA	82-86	CA3028B	RCA	57-58	CA3193S	RCA	44-91	CMP05BJ(M)	PMI	86-32	HA2-2600-2	INL	34-30
CA158AS	RCA	21-30		RCA		CA3193T	RCA	44-92	CMP05BZ(M)	PMI	86-33	HA2-2602-2	INL	34-38
CA158AT	RCA	21-31	CA3028BS	RCA	57-59	CA3240AE1	RCA	42-40	CMP05EJ(A)	PMI	86-30	HA2-2605-5	INL	34-39
CA158S	RCA	21-25		RCA		CA3240AE	RCA	42-41	CMP05EP	PMI	86-31	HA2-2620-2	INL	34-23
CA158T	RCA	21-26	CA3029	RCA	21-99	CA3240E1	RCA	42-42	CMP05EZ(M)	PMI	82-1	HA2-2622-2	INL	34-40
CA201E	RCA	54-100	CA3029A	RCA	21-103	CA3240E	RCA	42-43	CMP05FJ(A)	PMI	86-34	HA2-2625-5	INL	34-41
CA201S	RCA	51-19	CA3030	RCA	26-80	CA3240H	RCA	44-93	CMP05FP	PMI	86-35	HA3-4741-5	RTN	39-79
CA201T	RCA	51-20	CA3030A	RCA	26-76	CA3260AE	RCA	45-93	CMP05FZ(M)	PMI	86-36	HA3-4741-5DB	RTN	39-80
CA224E	RCA	21-9	CA3035V1	RCA	59-52	CA3260AS	RCA	45-94	CMP05G#ai	PMI	83-38	HA9-2500-2	INL	38-57
CA239AE	RCA	82-52	CA3037	RCA	21-100	CA3260B	RCA	45-95	CMP05N#ai	PMI	83-37	HA9-2502-2	INL	38-60
CA239E	RCA	82-87	CA3037A	RCA	21-104	CA3260BS	RCA	45-91	CS100	CHE	57-2	HA9-2505-5	INL	38-61
CA258AG	RCA	21-32	CA3038	RCA	26-81	CA3260BT	RCA	45-92	CS102-1	CHE	93-18	HA9-2510-2	INL	38-64
CA258AS	RCA	21-33	CA3038A	RCA	26-77	CA3260E	RCA	45-96	CS122	CHE	97-19	HA9-2512-2	INL	38-81
CA258AT	RCA	21-34	CA3040	RCA	59-67	CA3260S	RCA	45-97	CS137	CHE	57-3	HA9-2515-5	INL	38-82
CA258S	RCA	21-24	CA3049T	RCA	57-15	CA3260T	RCA	45-98	CS140	CHE	105-59	HA9-2520-2	INL	38-65
CA258T	RCA	21-27		RCA		CA3280AG	RCA	45-39	CS188	CHE	101-1	HA9-2522-2	INL	38-83
CA301AE	RCA	33-25	CA3050	RCA	57-11	CA3280G	RCA	45-40	CS2000	CHE	100-78	HA9-2525-5	INL	38-84
CA301AH	RCA	33-26		RCA		CA3280G	RCA	45-40	CS2907D8	CHE	93-22	HA9-2600-2	INL	34-31
CA301AS	RCA	33-27	CA3051	RCA	57-12	CA3290AE1	RCA	86-48	CS2917-1D14	CHE	93-26	HA9-2602-2	INL	34-42
CA301AT	RCA	33-28		RCA		CA3290AS	RCA	86-49	CS2917D8	CHE	93-27	HA9-2605-5	INL	34-43
CA307E	RCA	33-29	CA3053	RCA	57-23	CA3290AT	RCA	86-50	CTS0002GB	CMI	95-45	HA9-2620-2	INL	34-24
CA307G	RCA	33-30		RCA		CA3290BS	RCA	86-45	CTS0002H/B	CMI	95-43	HA9-2622-2	INL	34-44
CA307H	RCA	33-31	CA3054	RCA	57-55	CA3290BT	RCA	86-46	CTS0021ZB	CMI	45-102	HA9-2625-5	INL	34-45
CA307S	RCA	33-32	CA3054H	RCA	57-57	CA3290E1	RCA	86-51	CTS0024GB(A)	CMI	45-90	HA179M05P	HITJ	64-79
CA307T	RCA	33-33	CA3058	RCA	101-76	CA3290E	RCA	86-52	CTS0032ZB	CMI	45-69	HA178M06P	HITJ	67-21
CA311E	RCA	87-32	CA3059	RCA	101-77	CA3290S	RCA	86-53	CTS0033ZB	CMI	95-44	HA178M07P	HITJ	67-104
CA311S	RCA	87-33		RCA		CA3290T	RCA	86-54	CTS0041ZB	CMI	45-101	HA178M08P	HITJ	68-7
CA311T	RCA	87-34	CA3059H	RCA	101-78	CA3401E	RCA	22-56	CTS101AGB	CMI	26-22	HA178M12P	HITJ	70-81
CA324E	RCA	21-10	CA3060	RCA	22-7	CA3401H	RCA	22-57	CTS101AH/B	CMI	26-23	HA178M15P	HITJ	72-89
CA324H	RCA	21-11	CA3060AD	RCA	33-101	CA3420AE(A)	RCA	55-3	CTS108AGB	CMI	25-46	HA178M18P	HITJ	76-42
CA339AE	RCA	82-53	CA3060BD	RCA	33-102	CA3420AH(A)	RCA	55-4	CTS108AH/B	CMI	25-49	HA178M20P	HITJ	78-74
CA339E	RCA	82-88	CA3060D	RCA	21-105	CA3420AS(A)	RCA	55-5	CTS111GB	CMI	88-6	HA178M24P	HITJ	80-14
CA339H	RCA	82-54	CA3060E	RCA	33-103	CA3420AT(A)	RCA	55-6	CTS111H/B	CMI	88-8	HA1807	HITJ	85-68
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CA358AT	RCA	21-36	CA3078AH	RCA	32-30	CA3420BS(A)	RCA	55-1	CTS2101AEB(A)	CMI	53-109	HA1812PS	HITJ	85-92
CA358S	RCA	21-28	CA3078AS	RCA	32-31	CA3420BT(A)	RCA	55-2	CTS2108AEB(A)	CMI	52-67	HA1813PS	HITJ	85-69
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	RCA		CA3079	RCA	21-99	CA3440AE(A)	RCA	26-95	D13V4	SWT	62-27	HA2425	HAS	35-73
CA723E	RCA	78-25		RCA		CA3440AH(A)	RCA	26-96	DCI177	SSE	101-2	HA2500	HAS	41-83
	RCA		CA3080	RCA	28-93	CA3440AS(A)	RCA	26-97	DCI178	SSE	101-3	HA2502	HAS	41-84
CA723T	RCA	77-87	CA3080A	RCA	28-94	CA3440AT(A)	RCA	26-98	EA218	SIEG	106-3	HA2505	HAS	41-85
	RCA		CA3080AS	RCA	28-95	CA3440BS(A)	RCA	26-99	ESM227	THEF	105-60	HA2507	INL	41-89
CA741CE	RCA	31-30	CA3080E	RCA	28-96	CA3440BT(A)	RCA	26-94	ESM227N	THEF	105-61	HA2510	HAS	41-86
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CA741CT	RCA	31-32	CA3080S	RCA	28-98	CA3440H(A)	RCA	26-100	ESM707	THEF	101-4	HA2515	HAS	41-92
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CA741E	RCA	42-76		RCA		CA3440T(A)	RCA	26-102	ESM910	THEF	105-63	HA2520	HAS	38-66
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CA741T	RCA	30-73		RCA		CA3493AS	RCA	48-38	ESM1406	THEF	86-85	HA2525	HAS	38-85
	RCA		CA3085AE	RCA	77-78	CA3493E	RCA	48-39	ESM1410	THEF	69-74	HA2527	INL	41-94
CA747CE	RCA	37-45	CA3085AS	RCA	77-79	CA3493S	RCA	48-40	ESM1600	THEF	89-25	HA2539-2	HAS	45-109
CA747CT	RCA	37-46	CA3085B	RCA	80-76	CA3524E	RCA	104-89	ESM1600B	THEF	86-67	HA2539-5	HAS	45-110
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CA747H	RCA	37-29	CA3085E	RCA	77-80	CA6078AS	RCA	21-63	FA24	SIEG	106-5	HA2540-5(A)	HAS	45-107
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LF355BJ	♦MOTA	34-99							LM110D	♦INL	90-35	LM139FZ	MULB	82-90
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♦MOTA	NSC					LM101AP	TII	51-39	LM110H	♦INL	90-37	LM139J0	RTN	82-91
LF355HZ	♦SIC	22-53	LH2108FZ	MULB	44-4	LM101AT	MULB	51-40		NSC		LM139J	♦MOTA	82-92
LF355J	♦MOTA	35-4							LM110J	♦NSC	90-38		RTN	
LF355N	AMD	35-5	LH2111FZ	MULB	86-89	LM101AU	TII	51-41	LM111D	♦INL	86-91		NSC	
♦MOTA	NSC					LM101F883	♦NSC	51-5		RTN		LM139N	MULB	82-93
LF355T	NSC		LH2201AD	♦NSC	38-38	LM101F	PHIN	50-34	LM111DE	RTN	36-92		PHIN	♦SIC
♦PHIN	VALG		LH2201ADZ	RTN	21-37	LM101FZ	MULB	51-14	LM111F	♦INL	86-93		VALG	
LF356	ANS	41-45	LH2201AF	♦NSC	38-39					RTN		LM140AK5.0	NSC	65-110
LF356AH	AMD	41-38	LH2201AFZ	MULB	51-99	LM101N	VALG	51-15	LM111FZ	♦PHIN	86-94	LM140AK12	NSC	72-18
♦NSC									♦SIC	VALG		LM140AK15	NSC	74-83
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♦PHIN	VALG								♦MOTA	NSC		LM140K12	NSC	72-19
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LF356BJ	♦MOTA	39-85	LH2211FZ	MULB	86-90	LM102F	♦INL	90-22	LM111H#	♦SIC	88-45	LM140K15.0	♦MOTA	65-48
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	VALG			PHIN			VALG		LM3004N	PHIN	78-28	LM311P	PHIN	87-45
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LM160J14	NSC	83-35		MULB	49-80		NSC		LM3005AP	PHIN	77-27	LM311U	MULB	87-47
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LM161J	NSC	85-71		RTN		LM239AN	MULB	82-59	LM3005P	TII	72-66	LM312H	NSC	28-74
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LM163AH100	NSC	95-18	LM208JZ	MOTA	49-83		PHIN		LM3006J	NSC	86-18	LM316H	NSC	50-6
LM163AH500	NSC	95-19	LM208N	MULB	49-84		VALG		LM3006JG	TII	86-19	LM317H	MOTA	77-51
LM163D	NSC	95-20		PHIN		LM239J	MOTA	82-96	LM3006N	PHIN	86-20		NSC	
LM163H10	NSC	95-21	LM208T	MULB	49-85		NSC		LM3006P	TII	86-21	LM317HVH	NSC	62-14
LM163H100	NSC	95-22		PHIN			RTN		LM3006U	PHIN	86-22	LM317HVK	NSC	80-105
LM163H500	NSC	95-23	LM209DA	MULB	64-90	LM239N	MOTA	82-97	LM3007DE	TII	33-19	LM317K	MOTA	77-58
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LM185H2.5	NSC	102-48	LM209DB	MULB	64-91		MULB			PHIN		LM317KA	TII	75-109
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	NSC		LM210J	NSC	90-40	LM249J	NSC	35-33	LM3007N	NSC	44-23	LM317MT	MOTA	62-16
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	VALG		LM211H	MOTA	88-106	LM250AH	NSC	20-83	LM3007P	MULB	33-53	LM318H	NSC	41-24
LM193AT	MULB	82-12		RTN		LM258AN	NSC	20-84	LM3007T	PHIN	33-54		NSC	
	VALG		LM211H#	SIC	88-46		MULB		LM3007T	NSC	33-54	LM318J	NSC	41-25
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LM193JG	TII	82-21		PHIN			RTCF		LM3008AD	NSC	28-43	LM318N	RTN	41-29
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LM201AFZ	MULB	51-51		NSC		LM258P	TII	20-65	LM3008AJZ	MOTA	28-47	LM319NZ	MULB	88-1
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LM201AJ14	NSC	51-54	LM217KC	TII	75-108	LM260N14	NSC	83-100	LM3008ANZ	MULB	49-30	LM320H15	NSC	75-15
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	VALG		LM218U	TII	40-74		NSC			PHIN		LM320LZ12	NSC	71-56
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	PHIN		LM358JG	NSC	20 - 70	LM747EJ	NSC	51 - 90	LM4250K	NSC	27 - 81	FSC		50 - 50
LM340-5DA	MULB	65 - 105	LM358N	NSC	20 - 59	LM747EN	NSC	51 - 91	LM7805CK	NSC	64 - 96	JANM38510/10101BPA	NSC	
	PHIN			RTCF		LM747H883	NSC	29 - 16	LM7812CK	NSC	70 - 99	none		50 - 51
LM340-5KC	TII	63 - 67	LM358N2	NSC	20 - 71	LM747H	NSC	30 - 80	LM7812CT	NSC	70 - 100	JANM38510/10101BPB	NSC	
LM340-5U	MULB	65 - 106		PHIN		LM747J	NSC	30 - 81	LM7815CK	NSC	73 - 68	FSC		50 - 52
	PHIN			PHIN		LM748CH	NSC	30 - 15	LM7815CT	NSC	73 - 69	JANM38510/10101BPC	NSC	
LM340-6DA	MULB	67 - 75	LM358N2	NSC	20 - 72	LM748CJ	NSC	30 - 16	LM7905CK	NSC	64 - 97	RTN		50 - 53
	PHIN		LM358P	NSC	20 - 73	LM748CN	NSC	30 - 17	LM7905CT	NSC	64 - 98	JANM38510/10101CCA	NSC	
LM340-6KC	TII	66 - 88	LM358T	NSC	20 - 74	LM748H	NSC	30 - 18	LM7912CK	NSC	71 - 1	FSC		50 - 54
LM340-6U	MULB	67 - 76		PHIN		LM748J	NSC	22 - 81	LM7912CT	NSC	71 - 2	JANM38510/10101CCB	NSC	
	PHIN			PHIN		LM760CH	NSC	83 - 103	LM7915CK	NSC	73 - 70	FSC		50 - 55
LM340-8DA	MULB	69 - 30	LM359J	NSC	21 - 109	LM760CN	NSC	83 - 104	LM7915CT	NSC	73 - 71	JANM38510/10101CCC	NSC	
	PHIN		LM359N	NSC	83 - 47	LM8633	NSC	47 - 58	LM11700AJ	NSC	54 - 109	FSC		50 - 56
LM340-8KC	TII	68 - 8	LM360N14	NSC	83 - 48	LM1014AN	NSC	105 - 66	LM113080CP	NSC	21 - 106	JANM38510/10101CGA	NSC	
LM340-8U	MULB	69 - 31	LM360N	NSC	83 - 49	LM1014AN	NSC	105 - 67	LM13080N	NSC	21 - 107	FSC		50 - 57
	PHIN		LM361H	NSC	85 - 77	LM1414J	NSC	85 - 64	LM13080P	NSC	21 - 58	JANM38510/10101CGB	NSC	
LM340-10KC	TII	69 - 75	LM361J	NSC	85 - 73	LM1414N	NSC	85 - 65	LM13600AD	NSC	26 - 58	FSC		50 - 58
LM340-12DA	MULB	72 - 13	LM361N	NSC	85 - 78	LM1458AN	HAS	47 - 40	LM13600AJ	NSC	26 - 62	JANM38510/10101CGC	NSC	
	PHIN		LM363AD	NSC	95 - 24	LM1458H	NSC	36 - 68	LM13600AN	NSC	29 - 87	FSC		50 - 59
LM340-12KC	TII	69 - 108	LM363AH10	NSC	95 - 25	LM1458J	NSC	36 - 69		RTN		NSC		
LM340-12U	MULB	72 - 14	LM363AH100	NSC	95 - 26	LM1458N	NSC	36 - 70	LM13600AN%	NSC	26 - 59	JANM38510/10101CHA	NSC	
	PHIN		LM363AH500	NSC	95 - 27	LM1514J	NSC	85 - 62	LM13600D	NSC	24 - 46	FSC		50 - 60
LM340-15DA	MULB	74 - 77	LM363D	NSC	95 - 28	LM1524J	NSC	101 - 22		RTCF		JANM38510/10101CHB	NSC	
	PHIN		LM363H10	NSC	95 - 29	LM1558AH	HAS	53 - 110	LM13600J	NSC	23 - 8	FSC		50 - 61
LM340-15KC	TII	72 - 91	LM363H100	NSC	95 - 30	LM1558AJ	HAS	53 - 92	LM13600N	NSC	29 - 68	JANM38510/10101CHC	NSC	
LM340-15U	MULB	74 - 78	LM363H500	NSC	95 - 31	LM1558H	NSC	35 - 48		RTCF		FSC		50 - 62
	PHIN		LM376JG	NSC	75 - 105	LM1558J	NSC	35 - 49	LM13600N%	NSC	24 - 47	JANM38510/10101CPA	NSC	
LM340-18DA	MULB	76 - 90	LM376N	NSC	62 - 104	LM1558K	NSC	105 - 68	LM13700AN	NSC	54 - 105	none		50 - 63
	PHIN		LM376P	NSC	75 - 106	LM1812A	NSC	105 - 69	LM13700J	NSC	48 - 33	JANM38510/10101CPB	NSC	
LM340-18KC	TII	76 - 12	LM385BH1.2	NSC	102 - 60	LM1815N	NSC	98 - 20	LM13700N	NSC	48 - 27	FSC		51 - 1
LM340-18U	MULB	76 - 91	LM385BZ1.2	NSC	102 - 61	LM1830N	NSC							

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JANM38510/10102CIC	FSC	52-30	JANM38510/10107CGA	NSC	52-34	JANM38510/10304BHA	NSC	87-8	JANM38510/10709CYA	MA747CJ	TII	33-75		
JANM38510/10103BCA	FSC	50-10	JANM38510/10107CGC	NSC	52-35	JANM38510/10304BHB	NSC	87-9	JANM38510/10709CYC	MA747CN	TII	33-76		
JANM38510/10103BCB	FSC	50-11	JANM38510/10107CHC	NSC	52-36	JANM38510/10304BHC	NSC	87-10	JANM38510/11001BCA	MA748CJ	TII	31-47		
JANM38510/10103BCC	FSC	50-12	JANM38510/10201BCA	none	77-71	JANM38510/10304BPA	NSC	87-11	JANM38510/11001BCB	MA748CJG	TII	31-48		
JANM38510/10103BGB	FSC	50-13	JANM38510/10201BCB	none	77-72	JANM38510/10304BPC	NSC	87-12	JANM38510/11001CCB	MA748CL	TII	31-49		
JANM38510/10103BGG	FSC	50-14	JANM38510/10201BIA	none	77-73	JANM38510/10304BPD	NSC	87-13	JANM38510/11003BCA	MA748CN	TII	31-50		
JANM38510/10103BHC	FSC	50-15	JANM38510/10201BIB	none	77-74	JANM38510/10304BPE	NSC	87-14	JANM38510/11003BCB	MA748CP	TII	31-51		
JANM38510/10103BHD	FSC	50-16	JANM38510/10201BIC	none	77-75	JANM38510/10304BPF	NSC	87-15	JANM38510/11004BCA	MA748JG	TII	30-85		
JANM38510/10103BHE	FSC	50-17	JANM38510/10201CIC	NSC	77-76	JANM38510/10304BPG	NSC	87-16	JANM38510/11004BCB	MA748MJ	TII	30-86		
JANM38510/10103BHF	FSC	50-18	JANM38510/10201CIB	NSC	77-77	JANM38510/10304BPH	NSC	87-17	JANM38510/11004BCC	MA748MP	TII	30-87		
JANM38510/10103BHG	FSC	50-19	JANM38510/10201CIC	NSC	77-78	JANM38510/10304BPI	NSC	87-18	JANM38510/11004BCC	MA03080	ANS	28-99		
JANM38510/10103BHA	FSC	50-20	JANM38510/10201CIB	NSC	77-79	JANM38510/10304BPC	NSC	87-19	JANM38510/11004BCC	MA34022	ANS	45-66		
JANM38510/10103BHB	FSC	50-21	JANM38510/10201CIA	NSC	77-80	JANM38510/10304BPD	NSC	87-20	JANM38510/11004BCC	MA3501M	FCAJ	59-77		
JANM38510/10103BHC	FSC	50-22	JANM38510/10201CIB	NSC	77-81	JANM38510/10304BPE	NSC	87-21	JANM38510/11004BCC	MA3501PF	FCAJ	59-78		
JANM38510/10103BHD	FSC	50-23	JANM38510/10201CIC	NSC	77-82	JANM38510/10304BPF	NSC	87-22	JANM38510/11004BCC	MA3602C	FCAJ	39-14		
JANM38510/10103BHE	FSC	50-24	JANM38510/10301BCA	FSC	84-19	JANM38510/10304BPG	NSC	87-23	JANM38510/11004BCC	MA3602M	FCAJ	39-15		
JANM38510/10103BHF	FSC	50-25	JANM38510/10301BCB	FSC	84-20	JANM38510/10304BPH	NSC	87-24	JANM38510/11004BCC	MA3602M	FCAJ	39-16		
JANM38510/10103BHG	FSC	50-26	JANM38510/10301BCB	FSC	84-21	JANM38510/10304BPI	NSC	87-25	JANM38510/11004BCC	MA3602M	FCAJ	39-17		
JANM38510/10103BHA	FSC	50-27	JANM38510/10301BCB	FSC	84-22	JANM38510/10304BPC	NSC	87-26	JANM38510/11004BCC	MA3602M	FCAJ	39-18		
JANM38510/10103BHB	FSC	50-28	JANM38510/10301BCB	FSC	84-23	JANM38510/10304BPD	NSC	87-27	JANM38510/11004BCC	MA3602M	FCAJ	39-19		
JANM38510/10103BHC	FSC	50-29	JANM38510/10301BCB	FSC	84-24	JANM38510/10304BPE	NSC	87-28	JANM38510/11004BCC	MA3602M	FCAJ	39-20		
JANM38510/10103BHD	FSC	50-30	JANM38510/10301BCB	FSC	84-25	JANM38510/10304BPF	NSC	87-29	JANM38510/11004BCC	MA3602M	FCAJ	39-21		
JANM38510/10103BHE	FSC	50-31	JANM38510/10301BCB	FSC	84-26	JANM38510/10304BPG	NSC	87-30	JANM38510/11004BCC	MA3602M	FCAJ	39-22		
JANM38510/10103BHF	FSC	50-32	JANM38510/10301BCB	FSC	84-27	JANM38510/10304BPH	NSC	87-31	JANM38510/11004BCC	MA3602M	FCAJ	39-23		
JANM38510/10103BHG	FSC	50-33	JANM38510/10301BCB	FSC	84-28	JANM38510/10304BPI	NSC	87-32	JANM38510/11004BCC	MA3602M	FCAJ	39-24		
JANM38510/10104BCA	FSC	48-101	JANM38510/10301CCB	FSC	84-29	JANM38510/10304BPC	NSC	87-33	JANM38510/11004BCC	MA3602M	FCAJ	39-25		
JANM38510/10104BCB	FSC	48-102	JANM38510/10301CCB	FSC	84-30	JANM38510/10304BPD	NSC	87-34	JANM38510/11004BCC	MA3602M	FCAJ	39-26		
JANM38510/10104BCB	FSC	48-103	JANM38510/10301CCB	FSC	84-31	JANM38510/10304BPE	NSC	87-35	JANM38510/11004BCC	MA3602M	FCAJ	39-27		
JANM38510/10104BCB	FSC	48-104	JANM38510/10301CCB	FSC	84-32	JANM38510/10304BPF	NSC	87-36	JANM38510/11004BCC	MA3602M	FCAJ	39-28		
JANM38510/10104BCB	FSC	48-105	JANM38510/10301CCB	FSC	84-33	JANM38510/10304BPG	NSC	87-37	JANM38510/11004BCC	MA3602M	FCAJ	39-29		
JANM38510/10104BGA	FSC	49-1	JANM38510/10301CCB	FSC	84-34	JANM38510/10304BPH	NSC	87-38	JANM38510/11004BCC	MA3602M	FCAJ	39-30		
JANM38510/10104BHA	FSC	49-2	JANM38510/10301CCB	FSC	84-35	JANM38510/10304BPI	NSC	87-39	JANM38510/11004BCC	MA3602M	FCAJ	39-31		
JANM38510/10104BHB	FSC	49-3	JANM38510/10301CCB	FSC	84-36	JANM38510/10304BPC	NSC	87-40	JANM38510/11004BCC	MA3602M	FCAJ	39-32		
JANM38510/10104BHC	FSC	49-4	JANM38510/10301CCB	FSC	84-37	JANM38510/10304BPD	NSC	87-41	JANM38510/11004BCC	MA3602M	FCAJ	39-33		
JANM38510/10104BHA	FSC	49-5	JANM38510/10301CCB	FSC	84-38	JANM38510/10304BPE	NSC	87-42	JANM38510/11004BCC	MA3602M	FCAJ	39-34		
JANM38510/10104BHB	FSC	49-6	JANM38510/10301CCB	FSC	84-39	JANM38510/10304BPF	NSC	87-43	JANM38510/11004BCC	MA3602M	FCAJ	39-35		
JANM38510/10104BHC	FSC	49-7	JANM38510/10301CCB	FSC	84-40	JANM38510/10304BPG	NSC	87-44	JANM38510/11004BCC	MA3602M	FCAJ	39-36		
JANM38510/10104BHD	FSC	49-8	JANM38510/10301CCB	FSC	84-41	JANM38510/10304BPH	NSC	87-45	JANM38510/11004BCC	MA3602M	FCAJ	39-37		
JANM38510/10104BHE	FSC	49-9	JANM38510/10301CCB	FSC	84-42	JANM38510/10304BPI	NSC	87-46	JANM38510/11004BCC	MA3602M	FCAJ	39-38		
JANM38510/10104BHF	FSC	49-10	JANM38510/10301CCB	FSC	84-43	JANM38510/10304BPC	NSC	87-47	JANM38510/11004BCC	MA3602M	FCAJ	39-39		
JANM38510/10104BHG	FSC	49-11	JANM38510/10301CCB	FSC	84-44	JANM38510/10304BPD	NSC	87-48	JANM38510/11004BCC	MA3602M	FCAJ	39-40		
JANM38510/10104BHA	FSC	49-12	JANM38510/10301CCB	FSC	84-45	JANM38510/10304BPE	NSC	87-49	JANM38510/11004BCC	MA3602M	FCAJ	39-41		
JANM38510/10104BHB	FSC	49-13	JANM38510/10301CCB	FSC	84-46	JANM38510/10304BPF	NSC	87-50	JANM38510/11004BCC	MA3602M	FCAJ	39-42		
JANM38510/10104BHC	FSC	49-14	JANM38510/10301CCB	FSC	84-47	JANM38510/10304BPG	NSC	87-51	JANM38510/11004BCC	MA3602M	FCAJ	39-43		
JANM38510/10104BHD	FSC	49-15	JANM38510/10301CCB	FSC	84-48	JANM38510/10304BPH	NSC	87-52	JANM38510/11004BCC	MA3602M	FCAJ	39-44		
JANM38510/10104BHE	FSC	49-16	JANM38510/10301CCB	FSC	84-49	JANM38510/10304BPI	NSC	87-53	JANM38510/11004BCC	MA3602M	FCAJ	39-45		
JANM38510/10104BHF	FSC	49-17	JANM38510/10301CCB	FSC	84-50	JANM38510/10304BPC	NSC	87-54	JANM38510/11004BCC	MA3602M	FCAJ	39-46		
JANM38510/10104BHG	FSC	49-18	JANM38510/10301CCB	FSC	84-51	JANM38510/10304BPD	NSC	87-55	JANM38510/11004BCC	MA3602M	FCAJ	39-47		
JANM38510/10105BEA	SIC	51-100	JANM38510/10301CCB	FSC	84-52	JANM38510/10304BPE	NSC	87-56	JANM38510/11004BCC	MA3602M	FCAJ	39-48		
JANM38510/10105BEB	SIC	51-101	JANM38510/10301CCB	FSC	84-53	JANM38510/10304BPF	NSC	87-57	JANM38510/11004BCC	MA3602M	FCAJ	39-49		
JANM38510/10105BEC	SIC	51-102	JANM38510/10301CCB	FSC	84-54	JANM38510/10304BPG	NSC	87-58	JANM38510/11004BCC	MA3602M	FCAJ	39-50		
JANM38510/10105CEA	SIC	51-103	JANM38510/10301CCB	FSC	84-55	JANM38510/10304BPH	NSC	87-59	JANM38510/11004BCC	MA3602M	FCAJ	39-51		
JANM38510/10105CEB	SIC	52-1	JANM38510/10301CCB	FSC	84-56	JANM38510/10304BPI	NSC	87-60	JANM38510/11004BCC	MA3602M	FCAJ	39-52		
JANM38510/10107BGA	NSC	52-31	JANM38510/10301CCB	FSC	84-57	JANM38510/10304BPC	NSC	87-61	JANM38510/11004BCC	MA3602M	FCAJ	39-53		
JANM38510/10107BGC	NSC	52-32	JANM38510/10301CCB	FSC	84-58	JANM38510/10304BPD	NSC	87-62	JANM38510/11004BCC	MA3602M	FCAJ	39-54		
JANM38510/10107BHC	NSC	52-33	JANM38510/10301CCB	FSC	84-59	JANM38510/10304BPE	NSC	87-63	JANM38510/11004BCC	MA3602M	FCAJ	39-55		
			JANM38510/10301CCB	FSC	84-60	JANM38510/10304BPF	NSC	87-64	JANM38510/11004BCC	MA3602M	FCAJ	39-56		
			JANM38510/10301CCB	FSC	84-61	JANM38510/10304BPG	NSC	87-65	JANM38510/11004BCC	MA3602M	FCAJ	39-57		
			JANM38510/10301CCB	FSC	84-62	JANM38510/10304BPH	NSC	87-66	JANM38510/11004BCC	MA3602M	FCAJ	39-58		
			JANM38510/10301CCB	FSC	84-63	JANM38510/10304BPI	NSC	87-67	JANM38510/11004BCC	MA3602M	FCAJ	39-59		
			JANM38510/10301CCB	FSC	84-64	JANM38510/10304BPC	NSC	87-68	JANM38510/11004BCC	MA3602M	FCAJ	39-60		
			JANM38510/10301CCB	FSC	84-65	JANM38510/10304BPD	NSC	87-69	JANM38510/11004BCC	MA3602M	FCAJ	39-61		
			JANM38510/10301CCB	FSC	84-66	JANM38510/10304BPE	NSC	87-70	JANM38510/11004BCC	MA3602M	FCAJ	39-62		
			JANM38510/10301CCB	FSC	84-67	JANM38510/10304BPF	NSC	87-71	JANM38510/11004BCC	MA3602M	FCAJ	39-63		
			JANM38510/10301CCB	FSC	84-68	JANM38510/10304BPG	NSC	87-72	JANM38510/11004BCC	MA3602M	FCAJ	39-64		
			JANM38510/10301CCB	FSC	84-69	JANM38510/10304BPH	NSC	87-73	JANM38510/11004BCC	MA3602M	FCAJ	39-65		
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MC79L03ACP	♦MOTA	63 - 35	MC1458NP2	♦MOTA	37 - 61	MC1711CG	♦MOTA	85 - 25	MC3503L	♦MOTA	35 - 12
MC79L03CF	♦MOTA	63 - 38	MC1458NU	♦MOTA	37 - 62	MC1711CL	♦MOTA	85 - 26	MC3505L	♦MOTA	35 - 19
MC79L05AC(A)	†TII	69 - 65	MC1458P1	♦MOTA	37 - 101	MC1711CP	♦MOTA	85 - 27			83 - 10
MC79L05ACG	♦MOTA	64 - 63	MC1458P2	♦MOTA	37 - 102	MC1711CG	♦MOTA	85 - 27			83 - 10
MC79L05ACP	♦MOTA	64 - 65	MC1458P	†TII	36 - 65	MC1711CL	♦MOTA	85 - 12	MC3520L	♦MOTA	98 - 99
MC79L05C(A)	†TII	64 - 66	MC1458SG	♦MOTA	37 - 63	MC1723CG	♦MOTA	78 - 30	MC3523JG	†TII	98 - 57
MC79L05CF	♦MOTA	64 - 64	MC1458SL	♦MOTA	37 - 64	MC1723CL	♦MOTA	78 - 41	MC3523U	♦MOTA	99 - 109
MC79L05CP	♦MOTA	64 - 56	MC1458SP1	♦MOTA	37 - 65	MC1723CP	♦MOTA	78 - 40			89 - 22
MC79L12AC(A)	†TII	71 - 29	MC1458SU	♦MOTA	37 - 66	MC1723G	♦MOTA	78 - 31	MC3524AL	♦MOTA	99 - 110
MC79L12ACG	♦MOTA	71 - 76	MC1458T	MULB	37 - 68	MC1733CG	♦MOTA	59 - 79	MC3525AU	♦MOTA	29 - 29
MC79L12ACP	♦MOTA	71 - 63	MC1458U	♦MOTA	37 - 69	MC1733CL	♦MOTA	59 - 80	MC3525U	♦MOTA	100 - 1
MC79L12C(A)	†TII	71 - 77	MC1458V	MULB	37 - 70	MC1733CP	♦MOTA	59 - 80	MC3558G	♦MOTA	29 - 29
MC79L12CP	♦MOTA	71 - 64		PHIN		MC1733G	♦MOTA	59 - 86	MC3558H	♦MOTA	29 - 30
MC79L15AC(A)	†TII	81 - 32	MC1463G	♦MOTA	76 - 82	MC1733L	♦MOTA	59 - 86	MC3558J	♦MOTA	29 - 30
MC79L15ACG	♦MOTA	74 - 41	MC1463R	♦MOTA	76 - 83	MC1741CG	♦MOTA	31 - 52	MC3558K	♦MOTA	29 - 30
MC79L15ACP	♦MOTA	74 - 28	MC1466L	♦MOTA	63 - 12	MC1741CL	♦MOTA	31 - 53	MC3558L	♦MOTA	35 - 62
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MC213	ANS	105 - 70	MC1500AU6	♦MOTA	95 - 106	MC1741NL	♦MOTA	30 - 91	MC3558Z	♦MOTA	100 - 85
MC343	ANS	104 - 93	MC1500AU10	♦MOTA	95 - 107	MC1741NU	♦MOTA	30 - 92	MC3558AA	♦MOTA	100 - 86
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MC1445J	†TII	59 - 53		PHIN		MC3303P	†SIC	22 - 10	MC3558BG	♦MOTA	71 - 108
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MC1456CG	♦MOTA	34 - 46		PHIN		MC3324A	♦MOTA	89 - 23	MC3558BJ	♦MOTA	73 - 72
MC1456CL	♦MOTA	34 - 47	MC1558FE	†SIC	22 - 54	MC3324AP	♦MOTA	89 - 24	MC3558BK	♦MOTA	73 - 73
MC1456CP1	♦MOTA	34 - 48		PHIN		MC3324A	♦MOTA	89 - 24	MC3558BL	♦MOTA	73 - 74
MC1456CU	♦MOTA	34 - 49	MC1558G	†SIC	22 - 54	MC3324A	♦MOTA	89 - 24	MC3558BM	♦MOTA	73 - 74
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			IN TYPE NUMBER SEQUENCE											
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MIOV42093-0520	◆MPI	100 - 35	ML8204AE	◆MITC	101 - 43	MP5531BP	◆MPS	96 - 75	NE527N	◆MULB	85 - 90	NE4558FE	◆RTCF	54 - 3
MIOV42093-0525	◆MPI	100 - 36	ML8205AE	◆ANS	90 - 82	MP5531CJ	◆MPS	96 - 32	◆PHIN	◆SIC		NE4558N	◆SIC	54 - 4
MIOV42093-0530	◆MPI	100 - 37	MM109CP	◆MPS	24 - 9	MP5531CP	◆MPS	96 - 33	◆MULB	◆VALG	88 - 22	NE5512D	◆RTCF	23 - 71
MIOV42093-0535	◆MPI	100 - 38	MP4136CY	◆MPS	26 - 20	MP5531DJ	◆MPS	96 - 34	◆PHIN	◆SIC	85 - 84	NE5512E	◆VALG	23 - 72
MIOV42093-0620	◆MPI	100 - 39	MP4136PC	◆MPS	24 - 10	MP5531DP	◆MPS	96 - 35	◆SIC	◆VALG	83 - 59	NE5512F	◆RTCF	23 - 73
MIOV42093-0625	◆MPI	100 - 40	MP4136Y	◆MPS	26 - 21	MP5531EJ	◆MPS	96 - 76	◆MULB	◆VALG	85 - 85	NE5512N	◆RTCF	23 - 73
MIOV42093-0630	◆MPI	100 - 41	MP5010GN	◆MPS	95 - 83	MP5531EP	◆MPS	96 - 77	◆PHIN	◆SIC	85 - 86	NE5514D	◆VALG	45 - 70
MIOV42093-0635	◆MPI	100 - 42	MP5010HN	◆MPS	95 - 84	MP5531HJ	◆MPS	96 - 78	◆SIC	◆VALG	32 - 70	NE5514F	◆RTCF	23 - 66
MIOV42093-0720	◆MPI	100 - 43	MP5010JT	◆MPS	95 - 85	MP5531HP	◆MPS	96 - 79	◆PHIN	◆SIC	32 - 71	NE5514N	◆VALG	23 - 67
MIOV42093-0725	◆MPI	100 - 44	MP5010KT	◆MPS	95 - 86	MP5532AJ	◆MPS	96 - 80	◆MULB	◆VALG	32 - 72	NE5517AD	◆RTCF	26 - 60
MIOV42093-0730	◆MPI	100 - 45	MP5501AJ	◆MPS	25 - 59	MP5532AP	◆MPS	96 - 81	◆PHIN	◆SIC	41 - 8	NE5517AN	◆RTCF	26 - 61
MIOV42093-0735	◆MPI	100 - 46	MP5501AJ	◆MPS	25 - 60	MP5532BJ	◆MPS	96 - 82	◆SIC	◆VALG	41 - 9	NE5517D	◆RTCF	24 - 48
MIOV42093-0820	◆MPI	100 - 47	MP5501CY	◆MPS	25 - 41	MP5532BP	◆MPS	96 - 83	◆PHIN	◆SIC	41 - 10	NE5517N	◆VALG	24 - 49
MIOV42093-0825	◆MPI	100 - 48	MP5501GJ	◆MPS	25 - 42	MP5532CP	◆MPS	96 - 84	◆MULB	◆VALG	20 - 95	NE5522N	◆RTCF	105 - 72
MIOV42093-0830	◆MPI	100 - 49	MP5501JP	◆MPS	25 - 43	MP5532DJ	◆MPS	96 - 37	◆PHIN	◆SIC	20 - 96	NE5530F	◆MULB	38 - 13
MIOV42093-0835	◆MPI	100 - 50	MP5501EP	◆MPS	25 - 65	MP5532DP	◆MPS	96 - 38	◆SIC	◆VALG	45 - 88	NE5530H	◆RTCF	32 - 56
MIOV42093-0920	◆MPI	103 - 63	MP5501EJ	◆MPS	25 - 66	MP5532EJ	◆MPS	96 - 84	◆PHIN	◆SIC	23 - 77	NE5530K	◆MULB	38 - 14
MIOV42093-0925	◆MPI	100 - 51	MP5501EY	◆MPS	25 - 67	MP5532EP	◆MPS	96 - 85	◆SIC	◆VALG	20 - 13	NE5530N	◆PHIN	38 - 15
MIOV42093-0930	◆MPI	100 - 52	MP5501FJ	◆MPS	25 - 68	MP5532HJ	◆MPS	96 - 86	◆MULB	◆VALG	30 - 19	NE5532A(A)	◆TII	55 - 56
MIOV42093-0935	◆MPI	100 - 53	MP5501GJ	◆MPS	25 - 69	MP5532HP	◆MPS	96 - 87	◆SIC	◆VALG	30 - 20	NE5532AT	◆MULB	42 - 65
MIOV42093-1020	◆MPI	100 - 54	MP5501HY	◆MPS	25 - 44	MP5537A(JM)	◆MPS	26 - 28	◆PHIN	◆SIC	20 - 15	NE5532A(B)	◆RTCF	42 - 66
MIOV42093-1025	◆MPI	100 - 55	MP5501JY	◆MPS	25 - 45	MP5537B(JM)	◆MPS	26 - 29	◆SIC	◆VALG	48 - 74	NE5532AN	◆PHIN	22 - 21
MIOV42093-1030	◆MPI	100 - 56	MP5501GJ	◆MPS	25 - 46	MP5537C(JM)	◆MPS	26 - 30	◆PHIN	◆SIC	48 - 68	NE5532AP(A)	◆TII	55 - 53
MIOV42093-1035	◆MPI	100 - 57	MP5501HJ	◆MPS	25 - 61	MP5537D(JM)	◆MPS	26 - 31	◆SIC	◆VALG	32 - 73	NE5532AT	◆MULB	42 - 67
MIOV42093-1220	◆MPI	100 - 58	MP5501HY	◆MPS	25 - 62	MP5537E(JM)	◆MPS	26 - 32	◆PHIN	◆SIC	32 - 74	NE5532AF	◆RTCF	42 - 68
MIOV42093-1225	◆MPI	100 - 59	MP5501JY	◆MPS	25 - 63	MP5537F(JM)	◆MPS	26 - 33	◆SIC	◆VALG	32 - 75	NE5532AG(A)	◆PHIN	22 - 22
MIOV42093-1230	◆MPI	100 - 60	MP5501KJ	◆MPS	25 - 53	MP5537G(JM)	◆MPS	26 - 34	◆PHIN	◆SIC	101 - 83	NE5532AJ(A)	◆TII	55 - 52
MIOV42093-1235	◆MPI	100 - 61	MP5502AJ	◆MPS	25 - 54	MP5537H(JM)	◆MPS	26 - 35	◆SIC	◆VALG	101 - 84	NE5532AL	◆PHIN	42 - 71
MIOV42093-1420	◆MPI	100 - 62	MP5502AP	◆MPS	25 - 55	MP5537I(JM)	◆MPS	26 - 36	◆PHIN	◆SIC	77 - 95	NE5532AM	◆RTCF	23 - 46
MIOV42093-1425	◆MPI	100 - 63	MP5502AY	◆MPS	25 - 56	MP5537J(JM)	◆MPS	26 - 37	◆SIC	◆VALG	79 - 34	NE5532AN	◆PHIN	55 - 49
MIOV42093-1430	◆MPI	100 - 64	MP5502BJ	◆MPS	25 - 57	MP5537K(JM)	◆MPS	26 - 38	◆PHIN	◆SIC	79 - 34	NE5532AP(B)	◆TII	55 - 56
MIOV42093-1435	◆MPI	100 - 65	MP5502BP	◆MPS	25 - 58	MP5537L(JM)	◆MPS	26 - 39	◆SIC	◆VALG	32 - 73	NE5532AT	◆MULB	42 - 67
MIOV42093-1435	◆MPI	100 - 65	MP5502BY	◆MPS	25 - 59	MP5537M(JM)	◆MPS	26 - 40	◆PHIN	◆SIC	32 - 74	NE5532AF	◆RTCF	42 - 68
MIOV42093-1620	◆MPI	100 - 66	MP5502CJ	◆MPS	25 - 70	MP5537N(JM)	◆MPS	26 - 41	◆SIC	◆VALG	32 - 75	NE5532AG(A)	◆PHIN	22 - 22
MIOV42093-1625	◆MPI	100 - 67	MP5502CP	◆MPS	25 - 71	MP5537O(JM)	◆MPS	26 - 42	◆PHIN	◆SIC	101 - 83	NE5532AJ(A)	◆TII	55 - 52
MIOV42093-1630	◆MPI	100 - 68	MP5502CY	◆MPS	25 - 72	MPY100AG	◆BUB	90 - 86	◆SIC	◆VALG	101 - 85	NE5532AN	◆PHIN	42 - 71
MIOV42093-1635	◆MPI	100 - 69	MP5502DJ	◆MPS	25 - 73	MPY100AM	◆BUB	90 - 87	◆PHIN	◆SIC	79 - 95	NE5532AP(A)	◆TII	55 - 56
MIOV42093-1635	◆MPI	100 - 69	MP5502EJ	◆MPS	25 - 74	MPY100BG	◆BUB	90 - 88	◆SIC	◆VALG	32 - 73	NE5532AT	◆MULB	42 - 67
MIOV42093-1820	◆MPI	100 - 70	MP5502EP	◆MPS	25 - 75	MPY100CG	◆BUB	90 - 89	◆PHIN	◆SIC	32 - 74	NE5532AF	◆RTCF	42 - 68
MIOV42093-1825	◆MPI	100 - 71	MP5502FJ	◆MPS	25 - 76	MPY100DG	◆BUB	90 - 90	◆SIC	◆VALG	32 - 75	NE5532AG(A)	◆PHIN	22 - 22
MIOV42093-1830	◆MPI	100 - 72	MP5502GJ	◆MPS	25 - 77	MPY100EG	◆BUB	90 - 91	◆PHIN	◆SIC	101 - 83	NE5532AJ(A)	◆TII	55 - 52
MIOV42093-1835	◆MPI	100 - 73	MP5502HJ	◆MPS	25 - 78	MPY100FG	◆BUB	90 - 92	◆SIC	◆VALG	101 - 85	NE5532AN	◆PHIN	42 - 71
MIOV42093-2020	◆MPI	100 - 74	MP5502IY	◆MPS	25 - 79	MPY100GG	◆BUB	90 - 93	◆PHIN	◆SIC	77 - 95	NE5532AP(A)	◆TII	55 - 56
MIOV42093-2025	◆MPI	100 - 75	MP5502JY	◆MPS	25 - 80	MPY100HG	◆BUB	90 - 94	◆SIC	◆VALG	32 - 73	NE5532AT	◆MULB	42 - 67
MIOV42093-2030	◆MPI	100 - 76	MP5502KY	◆MPS	25 - 81	MPY100IG	◆BUB	90 - 95	◆PHIN	◆SIC	32 - 74	NE5532AF	◆RTCF	42 - 68
MIOV42093-2035	◆MPI	100 - 77	MP5502LY	◆MPS	25 - 82	MPY100JG	◆BUB	90 - 96	◆SIC	◆VALG	32 - 75	NE5532AG(A)	◆PHIN	22 - 22
MJ335	◆ANS	98 - 94	MP5502MY	◆MPS	25 - 83	MPY100KG	◆BUB	90 - 97	◆PHIN	◆SIC	101 - 83	NE5532AJ(A)	◆TII	55 - 52
MK104	◆ANS	83 - 9	MP5502NY	◆MPS	25 - 84	MPY100LG	◆BUB	90 - 98	◆SIC	◆VALG	101 - 84	NE5532AN	◆PHIN	42 - 71
MK119	◆ANS	83 - 7	MP5502OY	◆MPS	25 - 85	MPY100MG	◆BUB	90 - 99	◆PHIN	◆SIC	77 - 95	NE5532AP(A)	◆TII	55 - 56
MK404IP(A)	◆ANS	88 - 30	MP5502PY	◆MPS	25 - 86	MPY100NG	◆BUB	90 - 100	◆SIC	◆VALG	32 - 73	NE5532AT	◆MULB	42 - 67
ML78L05	◆MEHK	64 - 49	MP5502QY	◆MPS	25 - 87	MPY100OG	◆BUB	90 - 101	◆PHIN	◆SIC	32 - 74	NE5532AF	◆RTCF	42 - 68
ML78L05A	◆MEHK	64 - 50	MP5502RY	◆MPS	25 - 88	MPY100PG	◆BUB	90 - 102	◆SIC	◆VALG	32 - 75	NE5532AG(A)	◆PHIN	22 - 22
ML78L12	◆MEHK	71 - 54	MP5502SY	◆MPS	25 - 89	MPY100QJ	◆BUB	90 - 103	◆PHIN	◆SIC	101 - 83	NE5532AJ(A)	◆TII	55 - 52
ML78L12A	◆MEHK	71 - 55	MP5502TY	◆MPS	25 - 90	MPY100RJ	◆BUB	90 - 104	◆SIC	◆VALG	101 - 84	NE5532AN	◆PHIN	42 - 71
ML78L15	◆MEHK	74 - 19	MP5502UY	◆MPS	25 - 91	MPY100SJ	◆BUB	90 - 105	◆PHIN	◆SIC	77 - 95	NE5532AP(A)	◆TII	55 - 56
ML78L15A	◆MEHK	74 - 20	MP5502VY	◆MPS	25 - 92	MPY100TJ	◆BUB	90 - 106	◆SIC	◆VALG	32 - 73	NE5532AT	◆MULB	42 - 67
ML78P05	◆MEHK	66 - 82	MP5502WY	◆MPS	25 - 93	MPY100UJ	◆BUB	90 - 107	◆PHIN	◆SIC	32 - 74	NE5532AF	◆RTCF	42 - 68
ML78P05A	◆MEHK	66 - 71	MP5502XY	◆MPS	25 - 94	MPY100VJ	◆BUB	90 - 108	◆SIC	◆VALG	32 - 75	NE5532AG(A)	◆PHIN	22 - 22
ML78P12	◆MEHK	71 - 57	MP5502ZY	◆MPS	25 - 95	MPY100WJ	◆BUB	90 - 109	◆PHIN	◆SIC	101 - 83	NE5532AJ(A)	◆TII	55 - 52
ML78P12A	◆MEHK	71 - 58	MP5502AY	◆MPS	25 - 96	MPY100XJ	◆BUB	90 - 110	◆SIC	◆VALG	101 - 84	NE5532AN	◆PHIN	42 - 71
ML78P15	◆MEHK	74 - 22	MP5502BY	◆MPS	25 - 97	MPY100YJ	◆BUB	90 - 111	◆PHIN	◆SIC	77 - 95	NE5532AP(A)	◆TII	55 - 56
ML78P15A	◆MEHK	74 - 23	MP5502CY	◆MPS	25 - 98	MPY100ZJ	◆BUB	90 - 112	◆SIC	◆VALG	32 - 73	NE5532AT	◆MULB	42 - 67
ML78P18	◆MEHK	76 - 62	MP5502DY	◆MPS	25 - 99	MPY100AJ	◆BUB	90 - 113	◆PHIN	◆SIC	32 - 74	NE5532AF	◆RTCF	42 - 68
ML78P18A	◆MEHK	76 - 63	MP5502EY	◆MPS	25 - 100	MPY100BJ	◆BUB	90 - 114	◆SIC	◆VALG	32 - 75	NE5532AG(A)	◆PHIN	22 - 22
ML7805	◆MEHK	65 - 81	MP5502FY	◆MPS	25 - 101	MPY100CJ	◆BUB	90 - 115	◆PHIN	◆SIC	101 - 83	NE5532AJ(A)	◆TII	55 - 52
ML7805A	◆MEHK	65 - 5	MP5502GY	◆MPS	25 - 102	MPY100DJ	◆BUB	90 - 116	◆SIC	◆VALG	101 - 84	NE5532AN	◆PHIN	42 - 71
ML7812	◆MEHK	71 - 97	MP5502HY	◆MPS	25 - 103	MPY100EJ	◆BUB	90 - 117	◆PHIN	◆SIC	77 - 95	NE5532AP(A)	◆TII	55 - 56
ML7812A	◆MEHK	71 - 14	MP5502IY	◆MPS	25 - 104	MPY100FJ	◆BUB	90 - 118	◆SIC	◆VALG	32 - 73	NE5532AT	◆MULB	42 - 67
ML7815	◆MEHK	74 - 59	MP5502JY	◆MPS	25 - 105	MPY100GJ	◆BUB	90 - 119	◆PHIN	◆SIC	32 - 74	NE5532AF	◆RTCF	42 - 68
ML7815A	◆MEHK	73 - 78	MP5502KY											

2. TYPE No. CROSS INDEX

				IN TYPE NUMBER SEQUENCE							
TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
NE5538F (cont.)	PHIN		OP02BJ	PMI	33 - 9	OP11BV	PMI	38 - 55	OP21BJ #mil	PMI	43 - 30
	↓SIC		OP02BZ(M)	PMI	54 - 99	OP11CY(M)	PMI	55 - 50	OP21BJ	PMI	43 - 31
	VALG		OP02CJ	PMI	32 - 82	OP11CY #mil	PMI	45 - 44	OP21EJ	PMI	43 - 6
NE5538H	PHIN	32 - 76	OP02CP	PMI	32 - 83	OP11EP	PMI	38 - 29	OP21EP	PMI	43 - 7
	↓SIC		OP02CJ	PMI	43 - 97	OP11EY	PMI	38 - 30	OP21EZ	PMI	43 - 8
	VALG		OP02DJ	PMI	33 - 10	OP11FP	PMI	38 - 42	OP21FJ	PMI	43 - 32
NE5538K	PHIN	38 - 19	OP02DZ	PMI	33 - 11	OP11FY	PMI	38 - 43	OP21FP	PMI	43 - 33
	↓SIC		OP02DZ	PMI	44 - 13	OP11G	PMI	38 - 1	OP21FZ	PMI	43 - 34
	VALG		OP02EJ	PMI	29 - 21	OP11GP	PMI	43 - 53	OP21G	PMI	27 - 23
NE5538N	PHIN	38 - 20	OP02EJ	PMI	43 - 67	OP11GR	PMI	42 - 28	OP21GJ	PMI	43 - 64
	↓SIC		OP02G	PMI	32 - 29	OP11GY	PMI	45 - 45	OP21GP	PMI	43 - 65
	VALG		OP02GR	PMI	32 - 35	OP11IN	PMI	37 - 109	OP21GR	PMI	27 - 38
NE5538N-14	PHIN	38 - 21	OP02H	PMI	32 - 84	OP12AJ	PMI	28 - 34	OP21GZ	PMI	43 - 66
	↓SIC		OP02J	PMI	32 - 26	OP12AZ(M)	PMI	52 - 77	OP21H	PMI	27 - 21
	VALG		OP02N	PMI	32 - 85	OP12BJ	PMI	28 - 36	OP22AJ	PMI	47 - 87
NE5538T	PHIN	38 - 22	OP02Y	PMI	54 - 95	OP12BZ(M)	PMI	53 - 4	OP22AZ	PMI	47 - 88
	↓SIC		OP02Z(M)	PMI	29 - 22	OP12BZ #mil	PMI	53 - 6	OP22BJ	PMI	47 - 89
	VALG		OP04AK	PMI	29 - 23	OP12C	PMI	28 - 60	OP22BZ	PMI	47 - 90
NE5539D	PHIN	26 - 84	OP04AY	PMI	33 - 12	OP12CZ(M)	PMI	48 - 2	OP22EJ	PMI	47 - 91
	↓SIC		OP04BK	PMI	33 - 13	OP12E	PMI	28 - 32	OP22EZ	PMI	47 - 92
	VALG		OP04BY	PMI	32 - 86	OP12EZ	PMI	52 - 78	OP22FJ	PMI	47 - 93
NE5539F	PHIN	26 - 85	OP04CK	PMI	32 - 87	OP12FJ	PMI	28 - 35	OP22FZ	PMI	47 - 94
	↓SIC		OP04DY	PMI	33 - 14	OP12FZ	PMI	53 - 5	OP22HJ	PMI	47 - 95
	VALG		OP04DK	PMI	33 - 15	OP12G	PMI	27 - 28	OP22HZ	PMI	47 - 96
NE5539H	PHIN	64 - 74	OP04EK	PMI	29 - 24	OP12GJ	PMI	28 - 59	OP22ADE(M)	RTN	55 - 11
	↓SIC		OP04EY	PMI	29 - 25	OP12GR	PMI	27 - 31	OP27AJ	PMPS	54 - 11
	VALG		OP04G	PMI	37 - 25	OP12GZ	PMI	43 - 90	OP27AT(MA)	RTN	55 - 12
NE5539J	PHIN	64 - 72	OP04H	PMI	32 - 98	OP12N	PMI	27 - 26	OP27AZ	PMPS	54 - 12
	↓SIC		OP04K	PMI	37 - 23	OP14AJ	PMI	29 - 26	OP27BDE	RTN	55 - 15
	VALG		OP04Y	PMI	32 - 89	OP14AZ(M)	PMI	54 - 84	OP27BJ	PMPS	54 - 35
NE5539K	PHIN	64 - 74	OP05AJ	PMI	34 - 56	OP14AZ #mil	PMI	43 - 88	OP27C	PMI	55 - 16
	↓SIC		OP05AY	PMI	34 - 57	OP14B	PMI	33 - 16	OP27BT(MA)	RTN	55 - 19
	VALG		OP05CJ	PMI	54 - 22	OP14CJ	PMI	54 - 104	OP27BZ	PMPS	54 - 36
NE5539L	PHIN	64 - 74	OP05AZ(M)	PMI	35 - 103	OP14CZ	PMI	32 - 90	OP27CDE(MA)	RTN	55 - 19
	↓SIC		OP05CP	PMI	35 - 104	OP14D	PMI	43 - 98	OP27CT	PMI	54 - 57
	VALG		OP05CY	PMI	43 - 54	OP14DZ	PMI	44 - 14	OP27CT(MA)	RTN	55 - 20
NE5539M	PHIN	64 - 72	OP05CZ	PMI	34 - 70	OP14E	PMI	29 - 27	OP27CZ	PMPS	54 - 58
	↓SIC		OP05EJ	PMI	34 - 71	OP14EP	PMI	29 - 28	OP27E(A)	RTN	55 - 13
	VALG		OP05EP	PMI	34 - 72	OP14EZ	PMI	43 - 89	OP27EJ #AI	PMI	42 - 100
NE5539N	PHIN	64 - 72	OP05G	PMI	43 - 56	OP14G	PMI	37 - 26	OP27ET(A)	RTN	55 - 14
	↓SIC		OP05GR	PMI	35 - 79	OP14GR	PMI	38 - 2	OP27EZ	PMPS	54 - 32
	VALG		OP05J	PMI	34 - 74	OP14J	PMI	32 - 92	OP27F(A)	RTN	55 - 18
NE5539P	PHIN	64 - 72	OP05N	PMI	34 - 50	OP14N	PMI	37 - 24	OP27FJ #AI	PMI	43 - 13
	↓SIC		OP05Y	PMI	34 - 75	OP14Z(M)	PMI	54 - 96	OP27FT(A)	RTN	55 - 18
	VALG		OP06AJ	PMI	54 - 67	OP15AJ	PMI	34 - 85	OP27FZ	PMPS	54 - 32
NE5539Q	PHIN	64 - 72	OP06AZ(M)	PMI	42 - 105	OP15AZ(M)	PMI	54 - 72	OP27G(A)	RTN	55 - 21
	↓SIC		OP06B	PMI	42 - 106	OP15B	PMI	35 - 10	OP27GJ	PMPS	54 - 53
	VALG		OP06BJ	PMI	43 - 39	OP15BZ(M)	PMI	54 - 68	OP27GJ #AI	PMI	43 - 24
NE5539R	PHIN	64 - 72	OP06BZ	PMI	43 - 40	OP15CJ	PMI	36 - 25	OP27GT(A)	RTN	55 - 64
	↓SIC		OP06CJ #mil	PMI	43 - 55	OP15CP	ANS	36 - 26	OP27GZ	PMPS	54 - 54
	VALG		OP06CZ #mil	PMI	43 - 56	OP15CZ(M)	PMI	48 - 11	OP27HJ	PMI	54 - 54
NE5539S	PHIN	64 - 72	OP06EJ	PMI	43 - 1	OP15EJ	PMI	34 - 84	OP27I(A)	RTN	55 - 19
	↓SIC		OP06EZ	PMI	43 - 2	OP15EZ	PMI	54 - 73	OP27J	PMI	54 - 32
	VALG		OP06FJ	PMI	43 - 37	OP15FJ	PMI	35 - 9	OP27K	PMI	54 - 32
NE5539T	PHIN	64 - 72	OP06G	PMI	43 - 38	OP15FZ	PMI	54 - 89	OP27L	PMI	54 - 32
	↓SIC		OP06H	PMI	35 - 78	OP15G	PMI	27 - 42	OP27M	PMI	54 - 53
	VALG		OP06J	PMI	43 - 57	OP15GJ	PMI	36 - 21	OP27N	PMI	54 - 53
NE5539U	PHIN	64 - 72	OP06GR	PMI	36 - 33	OP15GR	PMI	27 - 45	OP27O	PMI	54 - 53
	↓SIC		OP06GZ	PMI	43 - 58	OP15GZ	PMI	48 - 12	OP27P	PMI	54 - 54
	VALG		OP06N	PMI	33 - 80	OP15N	PMI	27 - 35	OP27Q	PMI	54 - 54
NE5539V	PHIN	64 - 72	OP06Y	PMI	34 - 52	OP16AJ	PMI	39 - 62	OP27R	PMI	54 - 54
	↓SIC		OP07AJ	PMI	34 - 53	OP16AZ(M)	PMI	54 - 74	OP27S	PMI	54 - 54
	VALG		OP07AZ(M)	PMI	54 - 9	OP16B	PMI	39 - 105	OP27T	PMI	54 - 54
NE5539W	PHIN	64 - 72	OP07AZ #mil	PMI	42 - 103	OP16BZ(M)	PMI	54 - 90	OP27U	PMI	54 - 54
	↓SIC		OP07C(A)	TII	53 - 108	OP16CJ	PMI	40 - 83	OP27V	PMI	54 - 54
	VALG		OP07CJ	PMI	35 - 83	OP16CP	ANS	40 - 84	OP27W	PMI	54 - 54
NE5539X	PHIN	64 - 72	OP07CP	ANS	35 - 84	OP16CZ(M)	PMI	48 - 13	OP27X	PMI	54 - 54
	↓SIC		OP07CY	PMI	35 - 85	OP16EJ	PMI	39 - 60	OP27Y	PMI	54 - 54
	VALG		OP07CZ	PMI	43 - 25	OP16EZ	PMI	54 - 75	OP27Z	PMI	54 - 54
NE5539Y	PHIN	64 - 72	OP07D(A)	TII	53 - 107	OP16FJ	PMI	39 - 103	OP27A	PMI	54 - 54
	↓SIC		OP07D	PMI	35 - 100	OP16FZ	PMI	54 - 91	OP27B	PMI	54 - 54
	VALG		OP07DJ	PMI	43 - 43	OP16G	PMI	27 - 43	OP27C	PMI	54 - 54
NE5539Z	PHIN	64 - 72	OP07E(A)	TII	53 - 102	OP16GJ	PMI	40 - 81	OP27D	PMI	54 - 54
	↓SIC		OP07E	PMI	49 - 43	OP16GR	PMI	27 - 46	OP27E	PMI	54 - 54
	VALG		OP07F	PMI	34 - 61	OP16GZ	PMI	48 - 14	OP27F	PMI	54 - 54
NE5539AA	PHIN	64 - 72	OP07G	PMI	34 - 62	OP16N	PMI	27 - 36	OP27G	PMI	54 - 54
	↓SIC		OP07H	PMI	34 - 63	OP17AJ	PMI	39 - 63	OP27H	PMI	54 - 54
	VALG		OP07EZ	PMI	54 - 46	OP17AZ(M)	PMI	54 - 76	OP27I	PMI	54 - 54
NE5539AB	PHIN	64 - 72	OP07G	PMI	35 - 31	OP17B	PMI	39 - 106	OP27J	PMI	54 - 54
	↓SIC		OP07GR	PMI	36 - 32	OP17BZ(M)	PMI	54 - 92	OP27K	PMI	54 - 54
	VALG		OP07J	PMI	34 - 65	OP17CJ	PMI	40 - 85	OP27L	PMI	54 - 54
NE5539AC	PHIN	64 - 72	OP07N	PMI	35 - 30	OP17CP	ANS	40 - 86	OP27M	PMI	54 - 54
	↓SIC		OP07Y	PMI	34 - 66	OP17CZ(M)	PMI	48 - 15	OP27N	PMI	54 - 54
	VALG		OP07Z(M)	PMI	54 - 26	OP17EJ	PMI	39 - 61	OP27O	PMI	54 - 54
NE5539AD	PHIN	64 - 72	OP08AJ	PMI	28 - 33	OP17EZ	PMI	54 - 77	OP27P	PMI	54 - 54
	↓SIC		OP08AZ(M)	PMI	52 - 76	OP17FJ	PMI	39 - 104	OP27Q	PMI	54 - 54
	VALG		OP08CJ	PMI	28 - 61	OP17FZ	PMI	54 - 93	OP27R	PMI	54 - 54
NE5539AE	PHIN	64 - 72	OP08CZ(M)	PMI	53 - 24	OP17G	PMI	27 - 44	OP27S	PMI	54 - 54
	↓SIC		OP08EJ	PMI	28 - 31	OP17GJ	PMI	40 - 82	OP27T	PMI	54 - 54
	VALG		OP08EP	PMI	43 - 44	OP17GR	PMI	27 - 47	OP27U	PMI	54 - 54
NE5539AF	PHIN	64 - 72	OP08EY	PMI	43 - 45	OP17GZ	PMI	48 - 16	OP27V	PMI	54 - 54
	↓SIC		OP08G	PMI	48 - 87	OP17N	PMI	27 - 37	OP27W	PMI	54 - 54
	VALG		OP08GJ	PMI	28 - 57	OP20BJ	PMI	27 - 71	OP27X	PMI	54 - 54
NE5539AG	PHIN	64 - 72	OP08GP	PMI	28 - 58	OP20BZ #mil	PMI	43 - 18	OP27Y	PMI	54 - 54
	↓SIC		OP08GR	PMI	48 - 88	OP20CJ	PMI	27 - 73	OP27Z	PMI	54 - 54
	VALG		OP08GZ	PMI	53 - 25	OP20CZ #mil	PMI	43 - 46	OP27A	PMI	54 - 54
NE5539AH	PHIN	64 - 72	OP08H	PMI	48 - 86	OP20FJ	PMI	27 - 72	OP27B	PMI	54 - 54
	↓SIC		OP08I	PMI	38 - 31	OP20FF	PMI	43 - 19	OP27C	PMI	54 - 54
	VALG		OP08J	PMI	38 - 54	OP20FZ	PMI	43 - 20	OP27D	PMI	54 - 54
NE5539AI	PHIN	64 - 72	OP08K	PMI	38 - 28	OP20G	PMI	27 - 30	OP27E	PMI	

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				IN TYPE NUMBER SEQUENCE							
TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
OPA37FJ	♦BUB	54 - 44	PM357AZ	♦PMI	54 - 90	RC4200NB	♦RTN	90 - 97	RM4581T	♦RTN	39 - 52
OPA37G	♦BUB	54 - 45	PM357Z	♦PMI	41 - 55	RC4531NB	RTN	41 - 14	RM4558DE	RTN	37 - 33
OPA37GZ	♦BUB	54 - 66	PM357Z	♦PMI	47 - 107	RC4531NB	RTN	41 - 15	RM4558BJG	TII	37 - 34
OPA101AM	♦BUB	45 - 41	PM725CJ	♦PMI	35 - 95	RC4558DE	RTN	37 - 32	RM4558BT	RTN	37 - 35
OPA101BM	♦BUB	45 - 42	PM725CP	♦PMI	35 - 96	RC4558JG	♦TII	37 - 37	RM4559DE	RTN	36 - 66
OPA102AM	♦BUB	45 - 37	PM725Z(M)	PMI	43 - 68	RC4558NB	RTN	37 - 72	RM4559T	RTN	36 - 67
OPA102BM	♦BUB	45 - 38	PM725Z #mil	PMI	43 - 42	RC4558T	♦TII	37 - 73	RM5534ADE	RTN	38 - 91
OPA103AM	♦BUB	27 - 64	PM2108A	♦PMI	30 - 1	RC4559B	RTN	36 - 74	RM5534AT	RTN	38 - 92
OPA103CM	♦BUB	27 - 62	PM2108AO	♦PMI	28 - 37	RC4559NB	RTN	36 - 75	RM5534T	RTN	38 - 94
OPA103DM	♦BUB	27 - 49	PM2108Q	♦PMI	28 - 38	RC4559T	RTN	36 - 76	RM5534T/883B	RTN	38 - 95
OPA104AM	♦BUB	25 - 21	PWM125AK	♦SIX	104 - 94	RC4739DB	♦RTN	40 - 33	RP782FQ	PMI	104 - 97
OPA104BM	♦BUB	25 - 21	PWM125BK	♦SIX	104 - 95	RC5534ADE	RTN	40 - 58	RV555NB	RTN	92 - 61
OPA104CM	♦BUB	25 - 19	PWM125CK	♦SIX	104 - 96	RC5534ANB	RTN	40 - 59	RV556DC	RTN	92 - 62
OPA104DM	♦BUB	25 - 18	R675B-1	♦HBC	69 - 70	RC5534AT	RTN	40 - 60	RV741NB	RTN	31 - 72
OPA105UM(M)	♦BUB	52 - 10	R675C-1	♦HBC	69 - 71	RC5534DE	RTN	40 - 61	RV747DB	RTN	37 - 76
OPA105VM(M)	♦BUB	52 - 10	R675C-1	♦HBC	69 - 71	RC5534NB	RTN	40 - 62	RV458NB	RTN	37 - 76
OPA805HG	♦BUB	45 - 59	R5602-1	RET	104 - 52	RC5534NB	RTN	40 - 63	RV3403ADB	♦RTN	35 - 76
OPA805JG	♦BUB	45 - 58	R5602-2	RET	104 - 54	REF01AJ	♦PMI	102 - 87	RV4136DB	RTN	42 - 34
OPA805KG	♦BUB	45 - 57	R5602-2	RET	104 - 55	REF01AZ(M)	♦PMI	102 - 88	RV4136DC	RTN	42 - 35
PA01	♦AMT	55 - 99	R5602-3	RET	104 - 56	REF01CJ	♦PMI	102 - 89	RV4151DE	RTN	94 - 1
PA07	♦AMT	56 - 26	R5602-4	RET	104 - 57	REF01CP	♦PMI	102 - 90	RV4151NB	RTN	94 - 12
PA07A	♦AMT	56 - 25	R5602-5	RET	104 - 58	REF01CZ	♦PMI	102 - 91	RV4152DE	RTN	94 - 5
PA08	♦AMT	56 - 45	R5602-6	RET	104 - 59	REF01EJ	♦PMI	102 - 92	RV4152NB	RTN	94 - 5
PA08A	♦AMT	56 - 40	R5602-7	RET	104 - 60	REF01EZ	♦PMI	102 - 93	RV4153DB	RTN	94 - 27
PA09	♦AMT	56 - 18	R5602-8	RET	104 - 61	REF01G	♦PMI	102 - 94	RV4153DC	RTN	94 - 28
PA09A	♦AMT	56 - 20	R5605	RET	104 - 62	REF01HJ	♦PMI	102 - 95	RV4156DB	RTN	39 - 77
PA10	♦AMT	56 - 27	R5606	RET	104 - 63	REF01HP	♦PMI	102 - 96	RV4156DC	RTN	39 - 78
PA10A	♦AMT	56 - 27	R5606	RET	104 - 64	REF01HZ	♦PMI	102 - 97	RV4157DB	RTN	39 - 78
PA11	♦AMT	55 - 108	R5609	RET	104 - 65	REF01J	♦PMI	102 - 98	RV4157DC	RTN	39 - 97
PA12	♦AMT	56 - 21	R5611	RET	104 - 66	REF01N	♦PMI	102 - 99	RV4200ADE	RTN	90 - 100
PA12A	♦AMT	56 - 28	R5612	RET	104 - 67	REF01Z(M)	♦PMI	102 - 100	RV4200ANB	RTN	90 - 101
PA73	♦AMT	55 - 105	R5613	RET	104 - 68	REF02AJ	♦PMI	102 - 101	RV4200DE	RTN	90 - 102
PA83	♦AMT	56 - 44	R5614	RET	104 - 69	REF02AZ(M)	♦PMI	102 - 102	RV4200NB	RTN	90 - 103
PA83A	♦AMT	56 - 41	R5615	RET	104 - 70	REF02CJ	♦PMI	102 - 103	RV4558NB	RTN	37 - 77
PA84	♦AMT	56 - 39	R5616	RET	104 - 71	REF02CP	♦PMI	102 - 104	RV4559DE	RTN	36 - 77
PA84A	♦AMT	56 - 38	R5620	♦RET	104 - 72	REF02CZ	♦PMI	102 - 105	RV4559NB	RTN	36 - 78
PD755	♦HBC	94 - 75	R5620 #ai	RET	104 - 73	REF02DJ	♦PMI	102 - 106	RV4559T	RTN	36 - 79
PIC600	♦UNI	98 - 103	R5622	RET	104 - 74	REF02DP	♦PMI	102 - 107	S100	♦SSE	92 - 63
PIC601	♦UNI	98 - 104	R5622	RET	104 - 75	REF02ZD	♦PMI	102 - 108	S175A	♦SIEG	101 - 45
PIC602	♦UNI	98 - 105	R5630	RET	104 - 76	REF02EJ	♦PMI	102 - 109	S200	♦SSE	92 - 64
PIC610	♦UNI	98 - 106	R5631	RET	104 - 77	REF02EZ	♦PMI	102 - 110	S3522(A)	AMI	104 - 80
PIC611	♦UNI	98 - 107	R5632(A)	RET	104 - 78	REF02G	♦PMI	103 - 1	S3524J	TII	104 - 98
PIC612	♦UNI	98 - 109	R5633	RET	104 - 79	REF02HJ	♦PMI	103 - 2	S3526A-P(A)	AMI	104 - 81
PIC625	♦UNI	98 - 109	RC709DC	♦RTN	39 - 22	REF02HP	♦PMI	103 - 3	S3526B-P(A)	AMI	104 - 82
PIC626	♦UNI	98 - 110	RC709T	♦RTN	39 - 23	REF02HZ	♦PMI	103 - 4	SA78HV05CDA	MULB	66 - 25
PIC627	♦UNI	99 - 1	RC710DC	RTN	84 - 87	REF02J	♦PMI	103 - 5	SA78HV05CU	MULB	66 - 26
PIC635	♦UNI	99 - 2	RC710T	RTN	84 - 88	REF02N	♦PMI	103 - 6	SA78HV06CDA	MULB	67 - 85
PIC636	♦UNI	99 - 3	RC714CDE	RTN	54 - 49	REF02Z	♦PMI	103 - 7	SA78HV06CU	MULB	67 - 86
PIC637	♦UNI	99 - 4	RC714CH	RTN	54 - 50	REF02Z #mil	♦PMI	103 - 8	SA78HV08CDA	MULB	69 - 42
PIC645	♦UNI	99 - 5	RC714DE	RTN	54 - 27	REF05AJ(M)	♦PMI	103 - 9	SA78HV08CU	MULB	69 - 43
PIC646	♦UNI	99 - 6	RC714EDE	RTN	54 - 28	REF05BJ(M)	♦PMI	103 - 10	SA78HV12CDA	MULB	72 - 46
PIC647	♦UNI	99 - 7	RC714EH	RTN	54 - 29	REF05BLZ(M)	♦PMI	96 - 40	SA78HV12CU	MULB	72 - 47
PIC655	♦UNI	99 - 8	RC714H	RTN	54 - 30	REF05BLZ(M)	♦PMI	96 - 41	SA78HV14CDA	MULB	72 - 76
PIC656	♦UNI	99 - 9	RC714LDE	RTN	54 - 68	REF05BZ(M)	♦PMI	96 - 42	SA78HV14CU	MULB	72 - 77
PIC657	♦UNI	99 - 10	RC714LH	RTN	54 - 69	REF05FJ(A)	♦PMI	96 - 43	SA78HV14CU	MULB	72 - 77
PIC730	♦UNI	99 - 11	RC723DB	RTN	78 - 16	REF05FLZ(A)	♦PMI	96 - 44	SA78HV15CDA	MULB	75 - 54
PIC740	♦UNI	99 - 12	RC723DC	RTN	78 - 17	REF05FLZ(A)	♦PMI	96 - 45	SA78HV15CU	MULB	75 - 55
PIC800	♦UNI	99 - 13	RC723T	RTN	78 - 18	REF05FZ(A)	♦PMI	96 - 46	SA78HV18CDA	MULB	77 - 33
PIC801	♦UNI	99 - 14	RC725DE	RTN	35 - 97	REF10AJ(M)	♦PMI	103 - 11	SA78HV18CU	MULB	77 - 34
PIC810	♦UNI	99 - 15	RC725NB	RTN	35 - 98	REF10BJ(M)	♦PMI	103 - 12	SA78HV18CU	MULB	77 - 34
PIC811	♦UNI	99 - 16	RC725T	RTN	35 - 91	REF10LJ(M)	♦PMI	96 - 47	SA78HV24CDA	MULB	80 - 92
PKD01AY	♦PMI	94 - 76	RC733T	RTN	59 - 101	REF10LJ #mil	♦PMI	96 - 48	SA78HV24CU	MULB	80 - 93
PKD01BY	♦PMI	94 - 77	RC741DC	♦RTN	31 - 70	REF10OZ(M)	♦PMI	96 - 49	SA78M05CU	MULB	65 - 82
PKD01EP	♦PMI	94 - 78	RC741DE	♦RTN	30 - 99	REF10FZ(A)	♦PMI	96 - 50	SA78M06CU	MULB	67 - 64
PKD01EY	♦PMI	94 - 79	RC741NB	♦RTN	30 - 100	REF18EJ	♦PMI	96 - 22	SA78M08CU	MULB	69 - 13
PKD01FP	♦PMI	94 - 80	RC741T	♦RTN	31 - 71	REF18HJ	♦PMI	96 - 23	SA78M12CU	MULB	71 - 98
PKD01FY	♦PMI	94 - 81	RC747DB	RTN	37 - 92	REF18EJ	♦PMI	96 - 24	SA78M12CU	MULB	71 - 98
PKD01N	♦PMI	94 - 82	RC747DC	RTN	37 - 93	REF18HJ	♦PMI	96 - 25	SA78M15CU	MULB	74 - 60
PM108AJ	♦PMI	49 - 51	RC747T	RTN	37 - 94	REF20HJ	♦PMI	96 - 26	SA78M20CU	MULB	78 - 108
PM108AZ #mil	♦PMI	53 - 11	RC1437DB	RTN	40 - 40	RF3P01	♦PMI	105 - 73	SA78M24CU	MULB	80 - 62
PM108J	♦PMI	49 - 87	RC1437DC	RTN	40 - 41	RHY10	♦SIEG	106 - 11	SA78M24CU	MULB	80 - 62
PM108Z #mil	♦PMI	53 - 32	RC1458DE	RTN	37 - 98	RHY11	♦SIEG	106 - 12	SA78M24CU	MULB	80 - 62
PM139AY	♦PMI	83 - 13	RC1458NB	RTN	40 - 92	RHY18	♦SIEG	106 - 13	SA78M24CU	MULB	80 - 92
PM139Y	♦PMI	83 - 14	RC1458T	RTN	37 - 104	RHY18S1	♦SIEG	106 - 14	SA78M24CU	MULB	80 - 93
PM155AJ	♦PMI	34 - 94	RC3078NB	RTN	21 - 94	RHY19	♦SIEG	106 - 15	SA78M24CU	MULB	80 - 93
PM155AZ(M)	♦PMI	55 - 28	RC3078T	RTN	21 - 95	RM709DC	♦RTN	35 - 17	SA78M24CU	MULB	80 - 93
PM155J	♦PMI	34 - 105	RC3302DB	RTN	83 - 86	RM709T	♦RTN	35 - 18	SA78M24CU	MULB	80 - 93
PM155Z(M)	♦PMI	55 - 31	RC3401DB	RTN	42 - 56	RM710DC	RTN	84 - 43	SA78M24CU	MULB	80 - 93
PM156AJ	♦PMI	39 - 71	RC3403ADB	♦RTN	35 - 74	RM710T	RTN	84 - 44	SA78M24CU	MULB	80 - 93
PM156AZ(M)	♦PMI	55 - 29	RC3403ADC	♦RTN	35 - 75	RM723DC	♦RTN	78 - 19	SA78M24CU	MULB	80 - 93
PM156J	♦PMI	39 - 101	RC4131NB	♦RTN	28 - 100	RM723T	♦RTN	78 - 20	SA78M24CU	MULB	80 - 93
PM156Z(M)	♦PMI	55 - 32	RC4131T	♦RTN	29 - 13	RM725DE	♦RTN	33 - 85	SA78M24CU	MULB	80 - 93
PM157AJ	♦PMI	39 - 72	RC4132NB	RTN	27 - 67	RM725T	♦RTN	33 - 86	SA78M24CU	MULB	80 - 93
PM157AZ(M)	♦PMI	55 - 30	RC4132T	RTN	27 - 69	RM741DC	♦RTN	30 - 101	SA78M24CU	MULB	80 - 93
PM157J	♦PMI	39 - 102	RC4136DB	RTN	41 - 12	RM741DE	♦RTN	30 - 102	SA78M24CU	MULB	80 - 93
PM157Z(M)	♦PMI	55 - 33	RC4136DC	RTN	41 - 13	RM741T	♦RTN	30 - 103	SA78M24CU	MULB	80 - 93
PM208AJ	♦PMI	49 - 52	RC4136J	♦TII	42 - 32	RM747DC	RTN	37 - 91	SA78M24CU	MULB	80 - 93
PM208AZ	♦PMI	47 - 99	RC4136N	♦TII	42 - 33	RM747T	RTN	37 - 27	SA78M24CU	MULB	80 - 93
PM208J	♦PMI	49 - 88	RC4151DE	♦RTN	94 - 6	RM1537DC	RTN	40 - 37	SA78M24CU	MULB	80 - 93
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TYPE No.				TYPE No.				TYPE No.				IN TYPE NUMBER SEQUENCE			
TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	
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	PHIN		SE566T	MULB	93 - 79		PHIN		SFC2723M	•THEF	78 - 1	SG120-5.2R	•SGL	66 - 41	
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	VALG		SE592K	MULB	59 - 88	SE5561N	SIC	99 - 78	SFC2741DT	•THEF	31 - 80	SG120-8T	•SGL	68 - 11	
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SE511N	MULB	57 - 29	SE5512FE	•PHIN	23 - 69	SFC2100M	•THEF	75 - 77	SFC2741KM	•THEF	42 - 80	SG120-15T	•SGL	73 - 84	
	PHIN			•SIC		SFC2101A	•THEF	51 - 68	SFC2741M	•THEF	29 - 104	SG120-15T	•SGL	73 - 85	
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	PHIN			•SIC		SFC2101APM	THEF	51 - 69	SFC2741T	•THEF	42 - 84	SG120-18R	•SGL	77 - 12	
SE515F	MULB	57 - 6	SE5514F	•PHIN	23 - 64	SFC2104M	•THEF	79 - 21	SFC2741UC	•THEF	40 - 35	SG120-18T	•SGL	76 - 109	
	VALG			•SIC		SFC2105M	•THEF	79 - 46	SFC2747C	•THEF	31 - 81	SG120-20K	•SGL	79 - 10	
SE515K	MULB	57 - 7	SE5514N	•PHIN	23 - 65	SFC2107M	THEF	51 - 70	SFC2747EC	•THEF	31 - 82	SG120-20R	•SGL	79 - 4	
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	PHIN		SE5534AH	PHIN	22 - 14	SFC2205	•THEF	79 - 47	SFC2776EC	•THEF	46 - 39	SG140-08P	•SGL	69 - 14	
SE527N	MULB	85 - 89	SE5534AJG	•TII	38 - 96	SFC2207	•THEF	51 - 82	SFC2776EM	•THEF	46 - 31	SG140-08R	•SGL	68 - 13	
	PHIN		SE5534AN	PHIN	38 - 97	SFC2207PT	•THEF	51 - 83	SFC2776M	•THEF	46 - 32	SG140-08T	•SGL	68 - 14	
	•SIC			VALG		SFC2208	•THEF	48 - 92	SFC2776PM	•THEF	46 - 33	SG140-12K	•SGL	69 - 109	
SE529F	MULB	85 - 79	SE5534AT	PHIN	38 - 98	SFC2208A	•THEF	48 - 93	SFC2776UC	•THEF	41 - 95	SG140-12P	•SGL	71 - 99	
	PHIN			VALG		SFC2208PT	•THEF	43 - 94	SFC2778C	•THEF	46 - 40	SG140-12R	•SGL	69 - 110	
	•SIC		SE5534AU	•TII	44 - 108	SFC2209	•THEF	65 - 8	SFC2778DC	•THEF	46 - 41	SG140-12T	•SGL	70 - 92	
SE529H	PHIN	83 - 57	SE5534FE	•SIC	23 - 45	SFC2209R	•THEF	65 - 9	SFC2778EC	•THEF	46 - 42	SG140-15K	•SGL	72 - 1	
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	•SIC			VALG		SFC2301AUC	•THEF	41 - 91	SFC2805RM	•THEF	66 - 81	SG140-18T	•SGL	76 - 15	
	VALG		SE5534U	•TII	44 - 109	SFC2304	•THEF	75 - 4	SFC2806EC	•THEF	67 - 31	SG140-24K	•SGL	79 - 70	
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	•SIC			MULB		SFC2308A	•THEF	43 - 12	SFC2808LEC	•THEF	69 - 47	SG150K	•SGL	62 - 55	
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SE531N	RTCF	53 - 89		PHIN		SFC2308ADC	•THEF	43 - 60	SFC2812EC	•THEF	71 - 15	SG201AY	•SGL	51 - 84	
	•SIC			VALG		SFC2308DC	•THEF	46 - 29	SFC2812LEC	•THEF	71 - 16	SG204T	•SGL	79 - 25	
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SG308AM	*SGL	28 - 53	SG1526J	MOTA	104 - 103	SG7806CK	*SGL	66 - 103	SG7905.2CT	SGL	66 - 53
SG308AT	*SGL	28 - 54		SGL		SG7806CPR	*SGL	66 - 104	SG7905.2K	SGL	66 - 54
SG308AY	*SGL	28 - 55	SG1527A	*SGL	104 - 104	SG7806CP	*SGL	66 - 105	SG7905.2K	SGL	66 - 61
SG308F	*SGL	28 - 77	SG1532A	*SGL	80 - 100	SG7806CT	*SGL	66 - 106	SG7905.2R	SGL	66 - 55
SG308J	*SGL	28 - 13	SG1532T	*SGL	80 - 98	SG7806K	*SGL	66 - 107	SG7905.2T	SGL	66 - 56
SG308M	*SGL	28 - 14	SG1532T	*SGL	55 - 85	SG7806R	*SGL	66 - 108	SG7908ACK	SGL	69 - 25
SG308T	*SGL	28 - 15	SG1536J	*SGL	55 - 86	SG7806T	*SGL	66 - 109	SG7908ACP	SGL	69 - 15
SG308Y	*SGL	28 - 78	SG1542J	*SGL	96 - 69	SG7806T	*SGL	66 - 109	SG7908ACR	SGL	69 - 21
SG309K	*SGL	65 - 95	SG1542N	*SGL	96 - 70	SG7808ACK	*SGL	68 - 26	SG7908ACR	SGL	69 - 3
SG309T	*SGL	65 - 69	SG1543J	*SGL	103 - 64	SG7808ACR	*SGL	68 - 28	SG7908AK	SGL	69 - 26
SG310J	*SGL	46 - 59	SG1544J	*SGL	103 - 65	SG7808ACT	*SGL	68 - 29	SG7908AT	SGL	69 - 22
SG310M	*SGL	46 - 60	SG1549Y	*SGL	103 - 66	SG7808AK	*SGL	68 - 30	SG7908AT	SGL	69 - 4
SG310N	*SGL	46 - 61	SG1558T	SGL	37 - 21	SG7808AF	*SGL	68 - 31	SG7908CK	SGL	68 - 40
SG310T	*SGL	46 - 62	SG1568T	*SGL	73 - 22	SG7808AT	*SGL	68 - 32	SG7908CK	SGL	68 - 41
SG310Y	*SGL	46 - 63	SG1568T	*SGL	73 - 13	SG7808CK	*SGL	68 - 33	SG7908CR	SGL	68 - 42
SG311J	*SGL	87 - 58	SG1582J	*SGL	91 - 36	SG7808CP	*SGL	68 - 34	SG7908CT	SGL	68 - 43
SG311M	*SGL	87 - 59	SG1731(A)	SGL	104 - 105	SG7808CPR	*SGL	68 - 35	SG7908CT	SGL	68 - 44
SG311T	*SGL	87 - 60	SG2253T	SGL	24 - 57	SG7808CT	*SGL	68 - 36	SG7908P	SGL	69 - 16
SG317K	*SGL	77 - 55	SG2501AJ	*SGL	75 - 44	SG7808K	*SGL	68 - 37	SG7908R	SGL	68 - 45
SG317R	*SGL	77 - 38	SG2501AT	*SGL	75 - 38	SG7808R	*SGL	68 - 38	SG7908T	SGL	68 - 46
SG317T	*SGL	77 - 46	SG2501AN	*SGL	75 - 47	SG7808T	*SGL	68 - 39	SG7912ACK	SGL	72 - 4
SG320.05K	*SGL	63 - 77	SG2502A	*SGL	78 - 62	SG7812ACK	*SGL	70 - 6	SG7912ACP	SGL	71 - 101
SG320.05P	*SGL	63 - 78	SG2502N	*SGL	78 - 66	SG7812ACP	*SGL	70 - 7	SG7912ACP	SGL	71 - 110
SG320.05R	*SGL	63 - 79	SG2503M	*SGL	103 - 15	SG7812ACP	*SGL	70 - 8	SG7912ACT	SGL	71 - 85
SG320.05T	*SGL	63 - 80	SG2503T	*SGL	103 - 16	SG7812ACT	*SGL	70 - 9	SG7912ACT	SGL	72 - 5
SG320.5.2K	*SGL	66 - 46	SG2503Y	*SGL	103 - 17	SG7812AK	*SGL	70 - 10	SG7912AR	SGL	72 - 1
SG320.5.2P	*SGL	66 - 47	SG2524BJ	SGL	100 - 90	SG7812AK	*SGL	70 - 11	SG7912AR	SGL	72 - 1
SG320.5.2R	*SGL	66 - 48	SG2524F	*SIC	104 - 106	SG7812AT	*SGL	70 - 12	SG7912AZ	SGL	71 - 86
SG320.5.2T	*SGL	66 - 49	SG2524J	*SGL	104 - 107	SG7812C	*SGL	70 - 13	SG7912CZ	SGL	70 - 20
SG320.8K	*SGL	68 - 18		*TTL		SG7812CP	*SGL	70 - 14	SG7912CZ	SGL	70 - 21
SG320.8P	*SGL	68 - 19	SG2524N	*SIC	104 - 108	SG7812CR	*SGL	70 - 15	SG7912CZ	SGL	70 - 22
SG320.8R	*SGL	68 - 20	SG2525A	*SIC	104 - 109	SG7812CT	*SGL	70 - 16	SG7912CT	SGL	70 - 23
SG320.8T	*SGL	68 - 21	SG2526J	MOTA	104 - 110	SG7812CT	*SGL	70 - 17	SG7912K	SGL	70 - 24
SG320.12K	*SGL	70 - 55		SGL		SG7812R	*SGL	70 - 18	SG7912R	SGL	71 - 102
SG320.12P	*SGL	70 - 56	SG2528N	MOTA	105 - 1	SG7812T	*SGL	70 - 19	SG7912R	SGL	70 - 25
SG320.12R	*SGL	70 - 57	SG2527A	*SGL	105 - 2	SG7815ACK	*SGL	72 - 99	SG7915ACK	SGL	70 - 26
SG320.12T	*SGL	70 - 58	SG2532J	*SGL	80 - 101	SG7815ACK	*SGL	72 - 100	SG7915ACK	SGL	75 - 23
SG320.15K	*SGL	73 - 89	SG2532T	*SGL	80 - 99	SG7815ACR	*SGL	72 - 101	SG7915ACP	SGL	75 - 17
SG320.15P	*SGL	73 - 90	SG2542J	*SGL	98 - 71	SG7815ACR	*SGL	72 - 102	SG7915ACT	SGL	75 - 21
SG320.15R	*SGL	73 - 91	SG2542N	*SGL	98 - 72	SG7815ACT	*SGL	72 - 103	SG7915ACT	SGL	75 - 9
SG320.15T	*SGL	73 - 92	SG2543J	*SGL	103 - 67	SG7815AR	*SGL	72 - 104	SG7915AK	SGL	75 - 24
SG320.18K	*SGL	77 - 16	SG2544J	*SGL	103 - 68	SG7815AT	*SGL	72 - 105	SG7915AR	SGL	75 - 22
SG320.18P	*SGL	77 - 17	SG2549M	*SGL	103 - 69	SG7815CK	*SGL	72 - 106	SG7915AT	SGL	75 - 10
SG320.18R	*SGL	77 - 25	SG2549Y	*SGL	103 - 70	SG7815CP	*SGL	72 - 107	SG7915CK	SGL	73 - 3
SG320.18T	*SGL	76 - 110	SG2731(A)	SGL	105 - 9	SG7815CR	*SGL	72 - 108	SG7915CP	SGL	73 - 4
SG320.20K	*SGL	78 - 11	SG2523T	SGL	24 - 69	SG7815CT	*SGL	72 - 109	SG7915CR	SGL	73 - 5
SG320.20P	*SGL	78 - 109	SG3423AM	*SGL	98 - 73	SG7815CT	*SGL	72 - 109	SG7915CT	SGL	73 - 6
SG320.20R	*SGL	78 - 5	SG3423AY	*SGL	98 - 74	SG7815K	*SGL	72 - 110	SG7915K	SGL	73 - 93
SG320.20T	*SGL	78 - 93	SG3423M	*SGL	98 - 75	SG7815T	*SGL	73 - 1	SG7915R	SGL	75 - 18
SG323K	*SGL	63 - 63	SG3423Y	*SGL	98 - 76	SG7818ACK	*SGL	73 - 2	SG7915R	SGL	73 - 94
SG324J	*SGL	20 - 108	SG3501AJ	*SGL	75 - 37	SG7818ACK	*SGL	76 - 20	SG7915T	SGL	73 - 95
SG324N	*SGL	20 - 109	SG3501AN	*SGL	75 - 35	SG7818ACP	*SGL	76 - 21	SG7918ACK	SGL	77 - 19
SG337K	*SGL	62 - 58	SG3501AT	*SGL	75 - 36	SG7818ACT	*SGL	76 - 22	SG7918ACP	SGL	77 - 10
SG337P	*SGL	62 - 45	SG3502A	*SGL	75 - 83	SG7818AT	*SGL	76 - 23	SG7918ACP	SGL	77 - 13
SG337R	*SGL	62 - 53	SG3502N	*SGL	75 - 82	SG7818AR	*SGL	76 - 24	SG7918ACT	SGL	77 - 1
SG337T	*SGL	62 - 41	SG3503M	*SGL	103 - 19	SG7818AT	*SGL	76 - 25	SG7918ACT	SGL	77 - 1
SG340.05K	*SGL	63 - 82	SG3503T	*SGL	103 - 20	SG7818CK	*SGL	76 - 26	SG7918AK	SGL	77 - 14
SG340.05P	*SGL	63 - 83	SG3503Y	*SGL	103 - 20	SG7818CP	*SGL	76 - 27	SG7918AK	SGL	77 - 21
SG340.05R	*SGL	63 - 84	SG3523AM	*SGL	98 - 77	SG7818CR	*SGL	76 - 28	SG7918CK	SGL	77 - 21
SG340.05T	*SGL	63 - 84	SG3523AY	*SGL	98 - 78	SG7818CR	*SGL	76 - 29	SG7918CK	SGL	77 - 11
SG340.06K	*SGL	66 - 92	SG3523M	*SGL	98 - 79	SG7818K	*SGL	76 - 30	SG7918CR	SGL	77 - 15
SG340.06P	*SGL	66 - 83	SG3523Y	*SGL	98 - 80	SG7818R	*SGL	76 - 31	SG7918CT	SGL	77 - 3
SG340.06R	*SGL	66 - 94	SG3524BJ	SGL	100 - 91	SG7818T	*SGL	76 - 32	SG7918K	SGL	77 - 22
SG340.06T	*SGL	66 - 95	SG3524BN	SGL	100 - 92	SG7820ACK	*SGL	78 - 33	SG7918R	SGL	77 - 16
SG340.08K	*SGL	68 - 22	SG3524F	*SIC	105 - 4	SG7820ACP	*SGL	78 - 34	SG7918T	SGL	77 - 4
SG340.08P	*SGL	68 - 23	SG3524N	*SIC	105 - 5	SG7820ACT	*SGL	78 - 37	SG7920ACK	SGL	79 - 12
SG340.08R	*SGL	68 - 24	SG3525A	*SGL	105 - 6	SG7820AR	*SGL	79 - 28	SG7920ACP	SGL	79 - 110
SG340.08T	*SGL	68 - 25	SG3526J	MOTA	105 - 7	SG7820AR	*SGL	79 - 29	SG7920ACT	SGL	79 - 6
SG340.12K	*SGL	70 - 2		SGL		SG7820AT	*SGL	79 - 28	SG7920ACT	SGL	78 - 101
SG340.12P	*SGL	70 - 2	SG3526N	MOTA	105 - 8	SG7820CK	*SGL	79 - 28	SG7920AK	SGL	79 - 13
SG340.12R	*SGL	70 - 3		SGL		SG7820CP	*SGL	78 - 85	SG7920AR	SGL	79 - 7
SG340.12T	*SGL	70 - 5	SG3527A	*SGL	105 - 9	SG7820CT	*SGL	78 - 86	SG7920AT	SGL	79 - 102
SG340.15K	*SGL	72 - 95	SG3532J	*SGL	78 - 100	SG7820K	*SGL	78 - 87	SG7920CK	SGL	79 - 14
SG340.15P	*SGL	72 - 96	SG3532T	*SGL	78 - 93	SG7820R	*SGL	78 - 88	SG7920CP	SGL	79 - 8
SG340.15R	*SGL	72 - 97	SG3542J	*SGL	98 - 81	SG7820T	*SGL	78 - 89	SG7920CR	SGL	79 - 8
SG340.15T	*SGL	72 - 98	SG3542N	*SGL	98 - 82	SG7824ACK	*SGL	79 - 77	SG7920CT	SGL	78 - 103
SG340.18K	*SGL	76 - 18	SG3543J	*SGL	98 - 83	SG7824ACP	*SGL	79 - 78	SG7920K	SGL	79 - 15
SG340.18P	*SGL	76 - 17	SG3544J	*SGL	103 - 71	SG7824ACT	*SGL	79 - 79	SG7920R	SGL	79 - 9
SG340.18R	*SGL	76 - 19	SG3549M	*SGL	103 - 72	SG7824ACR	*SGL	79 - 80	SG7920T	SGL	78 - 104
SG340.18T	*SGL	76 - 19	SG3549Y	*SGL	103 - 73	SG7824AK	*SGL	79 - 81	SG7920T	SGL	78 - 104
SG340.24K	*SGL	79 - 73	SG3731(A)	SGL	105 - 10	SG7824AR	*SGL	79 - 82	SGL731(A)	SGL	105 - 11
SG340.24P	*SGL	79 - 74	SG4194CJ	SGL	75 - 70	SG7824AT	*SGL	79 - 83	SGL2731(A)	SGL	105 - 12
SG340.24R	*SGL	79 - 75	SG4194CR	SGL	75 - 71	SG7824CK	*SGL	79 - 84	SGL3731(A)	SGL	105 - 13
SG340.24T	*SGL	79 - 76	SG4194R	SGL	79 - 36	SG7824CP	*SGL	79 - 85	SHM20C(A)	*DTL	94 - 107
SG350AK	*SGL	62 - 22	SG4194R	SGL	79 - 37	SG7824CR	*SGL	79 - 86	SHM20M(A)	*DTL	94 - 108
SG350K	*SGL	62 - 14	SG4250CT	*SGL	21 - 77	SG7824CT	*SGL	79 - 87	SI1525BK	SIX	105 - 14
SG353K	*SGL	81 - 54	SG4250CT	*SGL	21 - 78	SG7824K	*SGL	79 - 88	SI1527BK	SIX	105 - 15
SG723CJ	*SGL	78 - 32	SG4250CY	*SGL							

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
TA7247AP	♦TOSJ	105 - 77	TBA2222P	♦PHIN	30 - 106	TC9A955K	♦SIEG	105 - 91	TDB0148DP	THEF	42 - 89	TDE0117KM	♦THEF	62 - 62
TA7248P	♦TOSJ	105 - 78	TBA222B	♦SIEG	25 - 52	TC9A965	♦SIEG	86 - 37	TDB0149DG	THEF	42 - 90	TDE0118CM	♦THEF	52 - 74
TA7256P(A)	♦TOSJ	105 - 79	TBA222G	♦SIEG	53 - 76	TC9A965K	♦SIEG	101 - 57	TDB0149DP	THEF	42 - 91	TDE0119CM	♦THEF	88 - 68
TA7257P	♦TOSJ	105 - 80	TBA222S1	♦SIEG	26 - 108	TC9A2365	♦SIEG	23 - 63	TDB0155ACM	THEF	47 - 100	TDE0119PD	♦THEF	88 - 69
TA7259P	♦TOSJ	105 - 81	TBA222W	♦SIEG	26 - 109	TC9A500	♦SIEG	103 - 83	TDB0155ADP	THEF	47 - 101	TDE0123KM	♦THEF	72 - 83
TA7260P	♦TOSJ	105 - 82	TBA271A	SGAI	103 - 79	TC9A501	♦TSC	103 - 84	TDB0155CM	THEF	42 - 95	TDE0124DP	THEF	45 - 83
TA7261P	♦TOSJ	105 - 83	TBA271B	SGAI	103 - 80	TC9A502	♦TSC	103 - 85	TDB0155DP	THEF	43 - 69	TDE0137CM	♦THEF	81 - 21
TA7262P(A)	♦TOSJ	105 - 84	TBA271C	SGAI	103 - 81	TC9A503	♦TSC	103 - 86	TDB0156ACM	THEF	47 - 102	TDE0137KM	♦THEF	81 - 21
TA7267P	♦TOSJ	105 - 85	TBA281	♦PHIN	78 - 2	TC9A504	♦TSC	103 - 87	TDB0156ADP	THEF	47 - 103	TDE0146DP	♦THEF	22 - 82
TA7354P	♦TOSJ	105 - 86	TBA341	♦THEF	57 - 53	TC9A505	♦TSC	103 - 88	TDB0156CM	THEF	43 - 70	TDE0148DP	THEF	42 - 93
TA75339P	♦TOSJ	82 - 80	TBA400	♦SIEG	58 - 31	TC9A506	♦TSC	103 - 89	TDB0156DP	THEF	43 - 71	TDE0149DP	THEF	42 - 94
TA75358P	♦TOSJ	82 - 88		♦THEF		TC9A507	♦TSC	103 - 90	TDB0157ACM	THEF	47 - 104	TDE0155CM	THEF	53 - 58
TA75393P	♦TOSJ	82 - 81	TBA400D	♦SIEG	58 - 32	TC9A508	♦TSC	103 - 91	TDB0157ADP	THEF	43 - 67	TDE0156CM	THEF	53 - 59
TA75393S	♦TOSJ	82 - 82		♦THEF		TC9A509	♦TSC	103 - 92	TDB0157CM	THEF	43 - 72	TDE0157CM	THEF	53 - 60
TA75458P	♦TOSJ	24 - 4	TBA435AX5	♦SGAI	69 - 50	TC9A510	♦TSC	103 - 93	TDB0157DP	♦THEF	43 - 73	TDE0158CM	♦THEF	43 - 81
TA75458S	♦TOSJ	24 - 13	TBA625AX5	♦SGAI	63 - 53	TC9A511	♦TSC	103 - 94	TDB0158CM	♦THEF	43 - 82	TDE0193ACM	♦THEF	89 - 5
TA75558P	♦TOSJ	24 - 3	TBA625BX5	♦SGAI	69 - 102	TC9A512	♦TSC	103 - 95	TDB0158DP	♦THEF	43 - 83	TDE0193CM	THEF	89 - 9
TA75558S	♦TOSJ	24 - 19	TBA625CX5	♦SGAI	72 - 85	TC9A513	♦TSC	103 - 96	TDB0158FP	♦THEF	43 - 84	TDF2094DP	THEF	26 - 105
TA75902P	♦TOSJ	23 - 89	TBA720	PHIN	92 - 55	TDA0159	THEF	99 - 30	TDB0159ACM	THEF	89 - 2	TDF2094FP	THEF	26 - 106
TA78005AP	♦TOSJ	65 - 73	TBA720AQ	♦MULB	92 - 57	TDA0159A	♦THEF	97 - 16	TDB0193ADP	THEF	89 - 3	TDF2901DP	♦THEF	88 - 98
TA78006AP	♦TOSJ	67 - 59		PHIN		TDA0200	♦THEF	62 - 88	TDB0193CM	THEF	89 - 6	TDF2902DP	♦THEF	26 - 104
TA78008AP	♦TOSJ	69 - 8	TBA720Q	PHIN	92 - 56	TDA0200V	♦THEF	103 - 97	TDB0193DP	THEF	89 - 7	TDF2902FP	♦THEF	26 - 103
TA78009AP	♦TOSJ	69 - 64	TBB0324A	♦SIEG	20 - 11	TDA0301D	♦PHIN	33 - 59	TDB0193FP	♦THEF	88 - 91	TDF2903DP	♦THEF	89 - 10
TA78010AP	♦TOSJ	69 - 84	TBB741G	♦SIEG	46 - 15	TDA0319D	VALG		TDB0347ADP	THEF	43 - 99	TDF3302DP	♦THEF	86 - 39
TA78012AP	♦TOSJ	71 - 90	TBB741GG	♦SIEG	46 - 16		PHIN	88 - 2	TDB0347BDP	THEF	43 - 101	TDF3403DP	♦THEF	22 - 11
TA78015AP	♦TOSJ	74 - 54	TBB1458B	♦SIEG	37 - 103	TDA0324D	♦VALG		TDB0347DP	THEF	43 - 105	TEA1001SP	♦THEF	99 - 47
TA78018AP	♦TOSJ	77 - 8	TBB1458GD	♦SIEG	46 - 10		PHIN	20 - 110	TDB0351ACM	THEF	44 - 7	TEA1007	♦ALGG	101 - 99
TA78020AP	♦TOSJ	78 - 105	TBB1458GG	♦SIEG	46 - 11	TDA0358D	♦VALG		TDB0351ADP	THEF	44 - 8	TEA1024(A)	♦ALGG	99 - 90
TA78024AP	♦TOSJ	80 - 57	TBB2331	♦SIEG	27 - 53		PHIN	20 - 37	TDB0351BCM	THEF	44 - 17	TEA1510DP(A)	♦THEF	101 - 100
TAA320	♦PHIN	101 - 55	TBB2331B	♦SIEG	27 - 54	TDA0723D	♦VALG		TDB0351BDP	THEF	44 - 18	TEA1511DP(A)	♦THEF	105 - 95
	♦VALG		TBB4331A	♦SIEG	27 - 55	TDA0741D	♦PHIN	103 - 98	TDB0351CM	THEF	43 - 106	TDB0351CM	THEF	105 - 110
TAA320A	♦PHIN	101 - 56	TBE2335	♦SIEG	27 - 57	TDA0748D	♦VALG	30 - 10	TDB0351DP	THEF	43 - 107	TDB0353ACM	THEF	83 - 34
	♦VALG		TBE2335B	♦SIEG	27 - 58		MULB	31 - 85	TDB0353ADP	THEF	44 - 10	TDB0353BCM	THEF	42 - 54
TAA350A	♦VALG	59 - 27	TBE4335A	♦SIEG	27 - 59	TDA1023	♦VALG	101 - 96	TDB0353BDP	THEF	44 - 19	TDB0353BDP	THEF	43 - 75
TAA550	♦VALG	103 - 74	TC21	♦SIEG	106 - 37		PHIN	101 - 97	TDB0353CM	THEF	44 - 20	TDB0353DP	THEF	44 - 15
TAA550A	♦SGAI	103 - 76	TC9142P	♦TOSJ	105 - 87	TDA1024	♦PHIN	101 - 98	TDB0353DP	THEF	43 - 109	TDB0791EP12	THEF	27 - 104
TAA550B	♦SGAI	103 - 77	TC9A105	♦SIEG	98 - 21	TDA1024N	MULB	101 - 98	TDB0791SP	♦THEF	45 - 65	TDB1146CM	♦THEF	27 - 106
TAA550C	♦SGAI	103 - 78	TC9A105B	♦SIEG	98 - 22	TDA1028	RTCF	26 - 63	TDB1146CM	♦THEF	45 - 27	TDB1146DP	♦THEF	27 - 92
TAA661A	♦THEF	58 - 33	TC9A105GG	♦SIEG	98 - 23	TDA1034	PHIN	40 - 46	TDB1146DP	♦THEF	63 - 8	TDB1468CM	♦THEF	27 - 102
TAA661B	♦THEF	58 - 34	TC9A105W	♦SIEG	98 - 24		RTCF	40 - 47	TDB1468DP	♦THEF	62 - 67	TDB2022CM	♦THEF	28 - 23
TAA661C	♦THEF	58 - 35	TC9A205A	♦SIEG	98 - 25	TDA1034BN	♦VALG	40 - 48	TDB2022CM	♦THEF	26 - 83	TDB2905ACM	THEF	24 - 108
TAA761	♦SIEG	29 - 33	TC9A205K	♦SIEG	99 - 27	TDA1034D	♦VALG	40 - 49	TDB2905ACM	THEF	66 - 68	TDB2905ACM	THEF	23 - 27
	♦VALG		TC9A220	♦MULB	99 - 26	TDA1034DN	♦VALG	40 - 50	TDB2905ASAP	♦THEF	66 - 69	TDB2905CM	THEF	23 - 28
TAA761A	♦SIEG	29 - 34		♦MULB	23 - 68	TDA1034N	♦PHIN	40 - 51	TDB2905CM	THEF	64 - 9	TDB2905CM	THEF	23 - 29
	♦VALG		TCA230	♦MULB	23 - 68	TDA1034NB	♦VALG	38 - 102	TDB2905K	THEF	64 - 32	TDB2905K	THEF	23 - 40
TAA761G	♦SIEG	26 - 110	TCA280A	♦MULB	101 - 93	TDA1034ND	♦PHIN	38 - 103	TDB2905SP	THEF	64 - 33	TDB2912CM	THEF	23 - 31
TAA761GG	♦SIEG	27 - 18	TCA305A(A)	♦SIEG	99 - 28	TDA1040	♦THEF	105 - 92	TDB2912CM	THEF	72 - 25	TDB2912SP	THEF	23 - 32
TAA761K	♦SIEG	27 - 19	TCA305G(A)	♦SIEG	99 - 29	TDA1041	♦THEF	105 - 93	TDB2915CM	THEF	72 - 26	TDB2915CM	THEF	28 - 3
TAA761S	♦SIEG	27 - 1	TC9A311	♦SIEG	29 - 58	TDA1060	♦PHIN	105 - 20	TDB2915CM	THEF	75 - 19	TDB2915CM	THEF	28 - 4
TAA761W	♦SIEG	29 - 35	TC9A311A	♦SIEG	29 - 59	TDA1060A	PHIN	101 - 58	TDB2915CM	THEF	75 - 32	TDB2915CM	THEF	27 - 97
TAA762	♦SIEG	29 - 36	TC9A311G	♦SIEG	27 - 9	TDA1060B	PHIN	105 - 21	TDB2915SP	THEF	75 - 33	TDB3403DP	♦THEF	27 - 109
TAA762A	♦SIEG	23 - 83	TC9A311GG	♦SIEG	27 - 11	TDA1060N	♦MULB	99 - 79	TDB3403DP	♦THEF	43 - 103	TDB4558CM	THEF	27 - 110
TAA762G	♦SIEG	23 - 84	TC9A311W	♦SIEG	29 - 61	TDA1151	♦SGAI	105 - 94	TDB4558CM	THEF	43 - 104	TDB4558DP	♦THEF	28 - 7
TAA765	♦SIEG	29 - 37	TC9A312	♦SIEG	29 - 61	TDA1405	THEF	63 - 59	TDB4558DP	♦THEF	42 - 92	TDB7806	♦SIEG	27 - 98
TAA765A	♦SIEG	29 - 38	TC9A315	♦SIEG	29 - 62	TDA1412	THEF	69 - 106	TDC0084DG	THEF	55 - 47	TDC0111CM	♦THEF	27 - 100
TAA765G	♦SIEG	27 - 2	TC9A315A	♦SIEG	29 - 63	TDA1415	THEF	72 - 87	TDC0111CM	♦THEF	88 - 52	TDC0117CM	♦THEF	24 - 54
TAA765GG	♦SIEG	27 - 20	TC9A315GG	♦SIEG	27 - 11	TDA1458D	♦PHIN	36 - 80	TDC0117CM	♦THEF	88 - 52	TDC017KM	♦THEF	28 - 27
TAA765S	♦SIEG	27 - 3	TC9A315W	♦SIEG	29 - 64	TDA4250B#1	VALG	21 - 59	TDC017KM	♦THEF	62 - 48	TDC018CM	♦THEF	28 - 28
TAA765W	♦SIEG	29 - 39	TC9A321	♦SIEG	29 - 65	TDA4250B#2	VALG	21 - 59	TDC018CM	♦THEF	52 - 69	TDC019CM	♦THEF	28 - 18
TAA861	♦SIEG	25 - 24	TC9A321A	♦SIEG	29 - 52	TDA4250D#1	VALG	21 - 90	TDC019CM	♦THEF	88 - 65	TDC019DG	♦THEF	28 - 25
	♦VALG		TC9A321G	♦SIEG	27 - 5	TDA4250D#2	VALG	21 - 60	TDC019DG	♦THEF	88 - 66	TDC019DP	♦THEF	28 - 26
TAA861A	♦SIEG	25 - 25	TC9A321W	♦SIEG	27 - 6	TDA4600-2D	♦SIEG	99 - 80	TDC019DP	♦THEF	88 - 67	TDC019DP	♦THEF	28 - 29
	♦VALG		TC9A322	♦SIEG	29 - 53	TDA4600-2D	♦SIEG	99 - 81	TDC019DP	♦THEF	72 - 82	TDC019DP	♦THEF	28 - 30
TAA861G	♦SIEG	25 - 8	TC9A325	♦SIEG	29 - 54	TDA4700	♦SIEG	99 - 82	TDC0123CM	THEF	45 - 82	TDC0123CM	THEF	28 - 19
TAA861GG	♦SIEG	25 - 10	TC9A325A	♦SIEG	29 - 55	TDA4700A	♦SIEG	99 - 83	TDC0123CM	THEF	81 - 20	TDC0123CM	THEF	28 - 20
TAA861W	♦SIEG	25 - 26	TC9A325G	♦SIEG	29 - 56	TDA4700A	♦SIEG	99 - 84	TDC0137CM	♦THEF	81 - 21	TDC0137CM	♦THEF	28 - 21
TAA862	♦SIEG	25 - 23	TC9A325GG	♦SIEG	27 - 7	TDA4714A	♦SIEG	99 - 84	TDC0137CM	♦THEF	81 - 22	TDC0139ADG	♦THEF	24 - 55
TAA865	♦SIEG	25 - 27	TC9A325W	♦SIEG	29 - 57	TDA4714B	♦SIEG	99 - 85	TDC0139ADG	♦THEF	88 - 95	TDC0146DG	♦THEF	28 - 84
	♦VALG		TC9A325W	♦SIEG	29 - 58	TDA4716A	♦SIEG	99 - 86	TDC0146DG	♦THEF	45 - 49	TDC0148DG	THEF	28 - 85
TAA865A	♦SIEG	25 - 28	TC9A331	♦SIEG	29 - 65	TDA4716B	♦SIEG	99 - 87	TDC0148DG	THEF	44 - 29	TDC0149DG	THEF	28 - 82
TAA865G	♦SIEG	25 - 9	TC9A331A	♦SIEG	29 - 66	TDA4718	♦SIEG	99 - 88	TDC0149DG	THEF	42 - 81	TDC0155ACM	THEF	28 - 62
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2. TYPE NO. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
TL071CJG	*TII	29 85	TL089CJG	*TII	24 50	TL510CP	TII	84 7	UA78105HM	FSC	65 19	UA79M05AUC	FSC	65 26
TL071CJG%	*MOTA	24 78	TL089JUG	TII	23 23	TL510MJ	TII	84 47	UA78105S	MULB	64 58	UA79M05CKC	*TII	64 12
TL071CP	*TII	29 86	TL089JUG	TII	23 24	TL510MJJG	TII	84 49	UA78106ACJG	*TII	67 87	UA79M05CLD	*TII	64 12
TL071CP%	*MOTA	24 86	TL089JUG	TII	24 24	TL510MN	TII	84 48	UA78106S	MULB	67 91	UA79M05CLA	*TII	63 9
TL071HJG	*TII	29 82	TL089MJG	*TII	24 26	TL510MP	TII	84 50	UA78106CJG	*TII	67 88	UA79M05HML	FSC	65 27
TL071HJG%	*TII	29 83	TL091CJG	*TII	24 110	TL510MU	TII	84 51	UA78106S	MULB	67 92	UA79M05J1C	*TII	63 109
TL071MJG	*TII	29 84	TL091CP	*TII	24 104	TL514CJG	*TII	84 72	UA78106ACJG	*TII	68 3	UA79M05MLA	*TII	65 28
TL071MJG%	*MOTA	24 82	TL091MJG	*TII	24 106	TL514CN	*TII	84 72	UA78108CJG	*TII	68 4	UA79M06CKD	*TII	67 5
TL072ACJG	*TII	36 13	TL092CJG	*TII	25 10	TL514MN	*TII	84 52	UA78109ACJG	*TII	68 66	UA79M06CKD	*TII	67 5
TL072ACJG%	*MOTA	24 72	TL092CP	*TII	24 105	TL514MN	*TII	84 53	UA78109AWC	FSC	69 61	UA79M06CLA	*TII	67 3
TL072ACP	*TII	36 14	TL092MJG	*TII	24 109	TL560CJG	*TII	98 36	UA78109CJG	*TII	68 67	UA79M06MLA	*TII	67 3
TL072ACP%	*MOTA	24 73	TL094CJG	*TII	25 6	TL560CP	*TII	98 37	UA78110ACJG	*TII	69 79	UA79M08AHC	FSC	68 88
TL072AMJG	*TII	36 7	TL094CN	*TII	25 3	TL592P	*TII	61 39	UA78110CJG	*TII	69 80	UA79M08AUC	FSC	68 89
TL072BCCJG	*TII	36 8	TL094IN	*TII	25 2	TL593CJ	*TII	105 22	UA78112ACJG	*TII	69 103	UA79M08CKC	*TII	68 89
TL072BCCJG%	*MOTA	24 60	TL094M	*TII	47 5	TL593CN	TII	105 23	UA78112ADB	MULB	71 78	UA79M08CKD	*TII	68 52
TL072BFC	*TII	36 9	TL094MJ	*TII	25 5	TL594C(A)	TII	105 24	UA78112AHC	FSC	71 20	UA79M08CLA	*TII	68 49
TL072BFC%	*MOTA	24 61	TL094MW	*TII	23 79	TL594C(A)	*TII	105 25	UA78112AS	MULB	71 65	UA79M08HML	FSC	68 90
TL072CJG	*TII	36 19	TL111J	*TII	88 16	TL594J(A)	TII	105 26	UA78112AWC	FSC	71 22	UA79M08MLA	*TII	68 50
TL072CJG%	*MOTA	24 87	TL111J	*TII	88 16	TL594J(A)	*TII	105 27	UA78112AWV	FSC	71 22	UA79M08J1C	FSC	68 91
TL072CP	*TII	36 20	TL136CJ	*TII	48 86	TL594MJ(A)	TII	105 28	UA78112CJG	*TII	69 104	UA79M12AUC	FSC	71 31
TL072CP%	*MOTA	24 88	TL136CN	*TII	48 87	TL595C(A)	TII	105 29	UA78112DB	MULB	71 79	UA79M12AUC	FSC	71 31
TL072JUG	*TII	36 15	TL287CJG	*TII	36 85	TL595CN(A)	*TII	105 30	UA78112HM	FSC	71 23	UA79M12AUV	*TII	71 32
TL072JUG%	*TII	36 16	TL287CP	*TII	36 86	TL595J(A)	TII	105 31	UA78112S	MULB	71 66	UA79M12CKC	*TII	70 35
TL072M	*TII	36 17	TL287JUG	*TII	23 20	TL595J(A)	*TII	105 32	UA78115ACJG	*TII	73 26	UA79M12CKD	*TII	70 32
TL072M%	*MOTA	24 83	TL287JUG	*TII	23 21	TL702CJ	*TII	23 108	UA78115ADB	MULB	74 49	UA79M12CLA	*TII	70 29
TL072MJG	*TII	36 18	TL287MJG	*TII	23 22	TL702CN	*TII	23 109	UA78115AHC	FSC	73 97	UA79M12MML	FSC	71 33
TL074ACJG	*MOTA	24 74	TL288CP	*TII	36 87	TL702CJ	*TII	23 110	UA78115AS	MULB	74 30	UA79M12MLA	*TII	70 30
TL074ACJG%	*MOTA	24 74	TL288CP	*TII	36 88	TL702MJ	*TII	23 106	UA78115AWC	FSC	73 98	UA79M12J1C	FSC	71 34
TL074ACN	*TII	41 66	TL288JUG	*TII	24 52	TL702MU	*TII	23 107	UA78115AWV	FSC	73 99	UA79M15AHC	FSC	73 105
TL074ACN%	*MOTA	24 75	TL288JUG	*TII	23 25	TL710CJ	*TII	83 107	UA78115CJG	*TII	73 27	UA79M15AUC	FSC	73 106
TL074AMJ	*TII	41 60	TL288JUG	*TII	23 25	TL710CJG	*TII	83 108	UA78115DB	MULB	74 50	UA79M15CKC	*TII	73 34
TL074BCJ	*TII	41 61	TL288JUG	*TII	24 53	TL710CN	*TII	84 2	UA78115FM	FSC	73 100	UA79M15CKD	*TII	73 31
TL074BCJ%	*MOTA	24 62	TL288MJG	*TII	24 107	TL710CP	*TII	84 2	UA78115S	MULB	74 31	UA79M15CLA	*TII	73 10
TL074BCN	*TII	41 62	TL311AJ	*TII	88 9	TL710CJ	*TII	84 2	UA78115S	MULB	74 31	UA79M15HML	FSC	73 107
TL074BCN%	*MOTA	24 63	TL311AJG	*TII	88 10	TL710MJ	*TII	85 3	UA7812AHC	FSC	67 93	UA79M15MLA	*TII	73 11
TL074CJ	*TII	41 76	TL311AN	*TII	88 11	TL710MJJG	*TII	85 2	UA7812AWV	FSC	67 95	UA79M15J1C	FSC	78 108
TL074CJ%	*MOTA	24 89	TL311AP	*TII	24 103	TL710MN	*TII	85 3	UA7812B2AHC	FSC	67 96	UA79M20CKC	*TII	78 68
TL074CN	*TII	41 77	TL311J	*TII	88 12	TL710MP	*TII	85 3	UA7812B2AHC	FSC	69 44	UA79M20CKD	*TII	78 67
TL074CN%	*MOTA	24 90	TL311JG	*TII	88 13	TL710MU	*TII	85 5	UA7812B2AHC	FSC	69 45	UA79M20CLA	*TII	78 65
TL074J	*TII	41 69	TL311JG	*TII	88 14	TL711CJ	*TII	85 54	UA7812B2AWV	FSC	69 46	UA79M20MLA	*TII	78 104
TL074J%	*MOTA	24 91	TL317P	*TII	63 10	TL711CN	*TII	85 55	UA7812B2AWV	FSC	69 46	UA79M24CKC	*TII	79 102
TL074MJ	*TII	41 71	TL321CJG	*TII	20 22	TL720CJ	*TII	84 4	UA7812B2AWV	FSC	64 11	UA79M24CKD	*TII	79 104
TL074MJ%	*MOTA	24 91	TL321CP	*TII	20 23	TL720CN	*TII	84 5	UA7812B2AWV	FSC	63 106	UA79M24CLA	*TII	79 93
TL074MW	*TII	24 101	TL321CJG	*TII	20 22	TL780-05CKC	*TII	65 84	UA7812B2AWV	FSC	65 20	UA79M24MLA	*TII	79 94
TL075ACJ	*TII	41 67	TL321CP	*TII	20 23	TL780-15CKC	*TII	71 105	UA7812B2AWV	FSC	65 21	UA79MGCH	MULB	75 72
TL075ACN	*TII	41 68	TL321JG(A)	*TII	20 18	TL780-15CKC	*TII	74 62	UA7812B2AWV	FSC	65 22	UA79MGH	VALG	75 73
TL075BCCJG	*TII	41 63	TL321JG(A)	*TII	20 19	TL783CKC	*TII	62 50	UA7812B2AWV	FSC	65 22	UA79MGH	MULB	75 73
TL075BCCJG%	*MOTA	24 64	TL321MJJG	*TII	20 20	TL810CJ	*TII	84 74	UA7812B2AWV	FSC	65 23	UA79MGH	VALG	75 73
TL075BFC	*TII	41 78	TL321MJJG	*TII	20 21	TL810CJG	*TII	84 75	UA7812B2AWV	FSC	65 24	UA79MGH	FSC	75 74
TL075BFC%	*MOTA	24 65	TL321MJJG(A)	*TII	48 70	TL810CN	*TII	84 76	UA7812B2AWV	FSC	67 6	UA79MGU1C	*TII	75 75
TL075CN	*TII	41 79	TL322CJG(A)	*TII	48 70	TL810CP	*TII	84 77	UA7812B2AWV	FSC	67 4	UA101AFM	*TII	51 76
TL075J	*TII	41 72	TL322CP(A)	*TII	48 70	TL810CP	*TII	84 78	UA7812B2AWV	FSC	67 4	UA101AHM	*TII	51 76
TL075J%	*MOTA	24 92	TL322JG(A)	*TII	48 69	TL810CJ	*TII	84 79	UA7812B2AWV	FSC	66 110	UA101AHM	*TII	55 79
TL080ACJG	*TII	30 41	TL322MJG(A)	*TII	48 75	TL810MJ	*TII	84 54	UA7812B2AWV	FSC	67 35	UA101AHM	*TII	55 79
TL080CJG	*TII	30 53	TL322MJJG(A)	*TII	48 75	TL810MJJG	*TII	84 55	UA7812B2AWV	FSC	67 36	UA101AHM	*TII	55 18
TL080JUG	*TII	30 46	TL322MJJG(A)	*TII	46 18	TL810MN	*TII	84 56	UA7812B2AWV	FSC	67 37	UA101AHM	*TII	55 18
TL080MJG	*TII	30 47	TL331CJG	*TII	82 3	TL810MP	*TII	84 57	UA7812B2AWV	FSC	67 37	UA101AHM	*TII	55 18
TL081ACJG	*TII	30 42	TL331CP	*TII	82 4	TL810MU	*TII	84 58	UA7812B2AWV	FSC	67 38	UA101AHM	*TII	55 18
TL081ACJG%	*MOTA	24 76	TL331JG	*TII	82 5	TL811CJ	*TII	85 16	UA7812B2AWV	FSC	67 39	UA101AHM	*TII	49 20
TL081ACP	*TII	30 43	TL331MJJG	*TII	82 6	TL811CN	*TII	85 17	UA7812B2AWV	FSC	68 54	UA101AHM	*TII	49 23
TL081ACP%	*MOTA	24 77	TL376CNE	*TII	101 101	TL811CJ	*TII	85 18	UA7812B2AWV	FSC	68 51	UA101AHM	*TII	49 24
TL081AMJG	*TII	30 32	TL430CJG	*TII	103 22	TL811MN	*TII	84 13	UA7812B2AWV	FSC	68 7	UA101AHM	*TII	65 29
TL081BCJG	*TII	30 33	TL431CP	*MOTA	62 32	TL811MU	*TII	84 14	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL081BCJG%	*MOTA	24 64	TL431CP	*MOTA	62 42	TL820CJ	*TII	84 15	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL081BFC	*TII	30 54	TL431CP	*MOTA	62 42	TL820CN	*TII	84 79	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL081CJG	*TII	30 54	TL431CP	*MOTA	62 42	TL820CJ	*TII	84 79	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL081CJG%	*MOTA	24 93	TL431ILP	*MOTA	62 33	TL820MJ	*TII	84 59	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL081CP	*TII	30 55	TL431IP	*MOTA	62 43	TL820MN	*TII	84 60	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL081CP%	*MOTA	24 94	TL431IP	*MOTA	62 43	TL83101	*TII	101 104	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL081JUG	*TII	30 48	TL431MJJG	*MOTA	81 17	TL83102	*TII	101 105	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL081MJG	*TII	30 49	TL440CJ	*TII	101 102	TL83103	*TII	101 106	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL082ACJG	*TII	36 108	TL440CN	*TII	101 103	TL83104	*TII	101 107	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL082ACJG%	*MOTA	24 78	TL441CJ	*TII	101 102	TL83105	*TII	101 108	UA7812B2AWV	FSC	68 8	UA101AHM	*TII	65 30
TL082ACP	*TII	24 79	TL441CN	*TII	90 69	TL83106	*							

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg/Line	TYPE No.	MFRS	Pg/Line	TYPE No.	MFRS	Pg/Line	TYPE No.	MFRS	Pg/Line	TYPE No.	MFRS	Pg/Line
uA317KC	FSC	77-41	uA714EHC	FSC	34-64	uA741CN	MULB	31-91	uA748CT	MULB	32-4	uA7805CDA	MULB	65-70
uA317HC	FSC	22-42	uA714HC	FSC	35-86	PHIN	RTCF		PHIN	VALG			VALG	
uA324DC	FSC	21-41	uA714HM	FSC	34-67	PHIN	SIC		uA748CU	TII	32-5	uA7805CKA	TII	64-17
uA324PC	FSC	21-42	uA715DC	FSC	38-9				uA748CV	MULB	32-6	uA7805CKC	TII	64-13
uA339ADC	FSC	82-65	uA715DM	FSC	41-20	uA741CN-14	PHIN			PHIN		uA7805SCU	MULB	65-71
uA339APC	FSC	82-66	uA715HC	FSC	39-56				uA748DC	INL	32-7		VALG	
uA339DC	FSC	82-108	uA715HM	FSC	41-21	uA741CP	PHIN		uA748DM	INL	31-13	uA7805DA	MULB	65-72
uA339PC	FSC	82-109	uA723A	MULB	39-57	uA741CT	MULB	31-94	uA748F	MULB	31-14		VALG	
uA348DC	FSC	35-39		PHIN					PHIN	SIC		uA7805KC	FSC	65-33
uA348PC	FSC	46-58	uA723CA	MULB	78-4	uA741CU	TII	31-95	uA748FE	RTCF	54-8	uA7805KM	FSC	65-34
uA376TC	FSC	79-33		PHIN		uA741CV	MULB	31-96		SIC		uA7805MKA	TII	64-18
uA393ARC	FSC	83-21	uA723CD	SIC	62-89	uA741DC	INL	31-97	uA748FM	SIC		uA7805UC	FSC	65-35
uA393ATC	FSC	83-22	uA723CF	MULB	78-5	uA741DM	INL	30-108	uA748HC	FSC	32-8	uA7805UV	FSC	65-36
uA393RC	FSC	83-26		PHIN		uA741EHC	FSC	36-24		INL		uA7806CDA	MULB	67-56
uA393TC	FSC	83-27		PHIN		uA741ERC	FSC	55-62	uA748HM	FSC	31-15	uA7806CKA	TII	67-10
uA431HC	FSC	77-61	uA723CH	SIC	62-90	uA741ETC	FSC	55-63		INL		uA7806CKC	TII	67-8
uA431HM	FSC	77-62	uA723CJ	INL	78-34	uA741F	MULB	30-109		TII	31-16	uA7806CU	MULB	67-57
uA431WC	FSC	77-63		PHIN					uA748MJ	VALG	31-17		VALG	
uA431VW	FSC	77-64	uA723CL	MULB	78-6	uA741FC	FSC	53-81	uA748MJG	TII	31-18	uA7806DA	MULB	67-58
uA494DC	FSC	105-33		PHIN		uA741FE	PHIN	23-100	uA748MU	TII	31-19		VALG	
uA494DM	FSC	105-34		TII		RTCF			uA748N	MULB	31-20	uA7806DK	FSC	67-40
uA494PC	FSC	105-35	uA723CN	VALG	78-35	uA741FM	FSC	30-110		PHIN		uA7806KM	FSC	67-41
uA702MJ	TII	23-104		TII						INL		uA7806MKA	TII	67-11
uA702ML	TII	23-105	uA723CNZ	MULB	78-7	uA741H	PHIN	23-52	uA748N-14	MULB	31-21	uA7806UC	FSC	67-42
uA709A	MULB	39-27		PHIN		uA741HC	FSC	31-98		PHIN		uA7806UV	FSC	67-43
uA709AF	MULB	34-5		PHIN		uA741HM	FSC	31-1	uA748T	MULB	31-22	uA7808CDA	MULB	69-5
	VALG		uA723CP	INL	62-29	uA741M	FSC	31-2	PHIN	VALG			VALG	
uA709AFM	FSC	34-16	uA723CT	INL	62-36				uA748TC	FSC	31-23	uA7808CKA	TII	68-58
uA709AHM	FSC	34-17	uA723CU	TII	77-82	uA741MJ	TII	31-2		INL		uA7808CKC	TII	68-56
uA709AMJ	TII	34-6	uA723DC	FSC	78-36	uA741MJG	FSC	31-3	uA748V	MULB	31-24	uA7808CU	MULB	69-6
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	VALG		uA723N	MULB	78-13				INL	FSC	57-50	uA7812CKA	TII	70-38
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uPC141G	◆NECJ	81 - 2	uPC451D	◆NECE	45 - 99	uPC14324H	◆NECJ	80 - 75	UGN3076T	◆SPR	106 - 48
uPC142A	◆NECJ	75 - 6		◆NECJ		U106BS	◆ALGG	102 - 5	UGN3076U	◆SPR	106 - 49
uPC151A	◆NECE	32 - 25	uPC451G	◆NECE	45 - 89	U111B	◆ALGG	102 - 6	UGN3201M	◆SPR	106 - 50
	◆NECJ		uPC452C	◆NECE	48 - 29	U112BA	◆ALGG	102 - 7	UGN3203M	◆SPR	106 - 51
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	◆NECJ		uPC454D	◆NECE	55 - 54	U209B	◆ALGG	99 - 22	UGN3501M	◆SPR	106 - 53
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	◆NECJ		uPC458D	◆NECE	39 - 49	U217B	◆ALGG	102 - 9	UGN3600M	◆SPR	106 - 55
uPC151G	◆NECE	47 - 41		◆NECJ		U225B	◆ALGG	99 - 31	UGN3804M	◆SPR	106 - 56
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uPC153A	◆										

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

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UTO2303R	AVA	61 - 21	XR2567M	EXR	101 - 72									
UTO2311	AVA	61 - 22		RTN										
UTO2311R	AVA	61 - 23	XR2567M	RTN	101 - 73									
UTO2321	AVA	61 - 24	XR3403CN	EXR	39 - 109									
VFC32BM #1	BUB	93 - 43	XR3403CP	EXR	39 - 110									
VFC32BM #2	BUB	94 - 29	XR3503M	EXR	35 - 13									
VFC32KP #1	BUB	93 - 44	XR3524CN	EXR	99 - 45									
VFC32KP #2	BUB	94 - 30	XR3524CP	EXR	99 - 46									
VFC32SM #1	BUB	93 - 45	XR3525AC(A)	EXR	105 - 55									
VFC32SM #2	BUB	94 - 31	XR3525AN(A)	EXR	105 - 56									
VFC32UM(M)	BUB	94 - 40	XR3527AC(A)	EXR	105 - 57									
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VFC62BM	BUB	94 - 44	XR4136CP	EXR	44 - 67									
VFC62CG	BUB	94 - 45	XR4136M	EXR	45 - 25									
VFC62CM	BUB	94 - 46	XR4194MK	EXR	79 - 38									
VFC62SM	BUB	94 - 47	XR4195CK	EXR	73 - 39									
VFC320BG	BUB	94 - 19	XR4195MT	EXR	73 - 16									
VFC320BM	BUB	94 - 20	XR4202M	EXR	45 - 31									
VFC320CG	BUB	94 - 21	XR4202N	EXR	45 - 23									
VFC320CM	BUB	94 - 22	XR4202P	EXR	44 - 55									
VFC320SM	BUB	94 - 23	XR4212CN	EXR	45 - 30									
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VTD3800	AVA	97 - 3	XR8038AP(A)	EXR	92 - 45									
VTD4900	AVA	97 - 4	XR8038CN	EXR	92 - 51									
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3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @ 25°C		INPUT CHARACTERISTICS						MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C			DRAWINGS		
		1 | T | VOLT. (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE			MIN. @ 25°C		CHAR. @ 25°C		3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C P M E	C K T.	OUT-LINE Δ=MO
				3 | DRFT (V/°C)	4 | OFFST (V)	MAX VOLTAGE (A)	MAX CURRENT (A)	BIAS (ΔV)	CM RANGE (Ω)	DIFF IMP. (Ω)								P-P VOLT. (ΔV)	P-P CUR. (ΔA)
1	uPC4556G		440mΔ	6.0m	200n	500n	24	24	24		105 †	5.0 †	70	07	A504g	MD8a	
2	ICL7613DCTY	1.0	250mΔ	12m	300p	500p	0.2	10†	96 ∅	1.0m∅	.04M†	.02 †	80 †	07	A504a	TO99	
3	ICL7631BCJE	1.0	500mΔ	7.0m	300p	500p	.20	10†	96 ∅	1.0M∅	.04M†	.02 †	80 †	07	A504c	DL16bw	
4	ICL7631BMJE	1.0	500mΔ	7m	800p	4.0n	0.2	10†	82 ∅	1M∅	.04M†	.16 †	80 †	5C	A504e	DL16bw	
5	LC700(A)	1.3 †		9.0out	1.0m†	21n†											
6	ID4251	3.0	90u	5.0out	3.0mΔ	5.0n	15n	2.0	3.0M	1.0	10k∅	300k∅	100	5C	A123	TO99	
7	UC4251	3.0	90u	5.0out	4.0mΔ	5.0n	15n	2.0	3.0M	1.0	10k∅	300k∅	100	5C	A123	TO99	
8	ID4251C	3.0	110u	5.0out	6.0mΔ	10n	30n	2.0	3.0M	1.0	10k∅	300k∅	96	07	A123		
9	UC4251C	3.0	110u	5.0out	7.5mΔ	15n	50n	2.0	3.0M	1.0	10k∅	300k∅	96	07	A123	TO99	
10	LM2902N*	5.0		7.0m	50n	500n	3.5 Δ		3.5	2.0k∅	1.0M∅	100 †	85	4B	A308	DL8m	
11	TBB0324A	5.0		7.0m	50n	250n			20m	10k∅	1.0M∅	88	65	2B	A308	DL14t	
12	SE532H*	5.0		7.0u	7.0m	100n	30n	0	26 §	2.0k∅	1.0M∅	50 §	70	5C	A421b	CN1g	
13	NE532H*	5.0		9.0m	150n	500n	0		26 §	2.0k∅	1.0M∅	25 §	65	07	A421b	CN1g	
14	SE532V*	5.0	2.0m	5.0m	30n	300n	1.5 ∅		1.5	20m	100	85 †	5C	A277a	DL8k		
15	NE532V*	5.0	2.0m	7.0m	50n	500n	1.5 ∅		1.5	20m	100	85 †	07	A277a	DL8k		
16	SU532T*	5.0	2.0m	7.0m	50n	500n	1.5 ∅		1.5	20m	100	85 †	2B	A277a	CN1g		
17	SU532V*	5.0	2.0m	7.0m	50n	500n	1.5 ∅		1.5	20m	100	85 †	2B	A277a	DL8k		
18	TL321JG	5.0	5.0m	7.0m	100n	300n	3.5		26	2.0k∅	94	70	2B	A235	DL8v		
19	TL321IP	5.0	5.0m	7.0m	100n	300n	3.5		26	2.0k∅	94	70	2B	A235	DL8p		
20	TL321MJG	5.0	5.0m	7.0m	100n	300n	3.5		26	2.0k∅	94	70	5C	A235	DL8v		
21	TL321MP	5.0	5.0m	7.0m	100n	300n	3.5		26	2.0k∅	94	70	5C	A235	DL8p		
22	TL321CJG	5.0	5.0m	9.0m	150n	500n	3.5		26	2.0k∅	88	65	07	A235	DL8v		
23	TL321CP	5.0	5.0m	9.0m	150n	500n	3.5		26	2.0k∅	88	65	07	A235	DL8p		
24	TCA520B	5.0	5.0m†	5.0u†	6.0m	30n	100n	4.5	4.9	5.0k∅	1.0M∅	88	50	70	2B	A237	DL8l
25	TCA520D	5.0	5.0m	5.0u†	6.0m	30n	100n	4.5	4.9	5.0k∅	1.0M∅	88	50	70	2B	A237	MD8a
26	LM192H	5.0	5.0m	7.0u	7.0m	100n	300n	3.5	3.5	2.0k∅	1.0M∅	94	70	5C	A442	CN1d	
27	LM192J	5.0	5.0m	7.0u	7.0m	100n	300n	3.5	3.5	2.0k∅	1.0M∅	94	70	5C	A442	DL8aq	
28	LM292H	5.0	5.0m	7.0u	7.0m	150n	400n	3.5	3.5	2.0k∅	1.0M∅	88	65	2B	A442	CN1d	
29	LM292J	5.0	5.0m	7.0u	7.0m	150n	400n	3.5	3.5	2.0k∅	1.0M∅	88	65	2B	A442	DL8aq	
30	LM392H	5.0	5.0m	7.0u	7.0m	150n	400n	3.5	3.5	2.0k∅	1.0M∅	88	65	07	A442	CN1d	
31	LM392J	5.0	5.0m	7.0u	7.0m	150n	400n	3.5	3.5	2.0k∅	1.0M∅	88	65	07	A442	DL8aq	
32	LM392N	5.0	5.0m	7.0u	7.0m	150n	400n	3.5	3.5	2.0k∅	1.0M∅	88	65	07	A442	DL8ah	
33	LM2924J	5.0	5.0m	7.0u	10m	200n	500n	3.5	3.5	10k∅	1.0M∅	100 †	50	4B	A442	DL8aq	
34	LM2924N	5.0	5.0m	7.0u	10m	200n	500n	3.5	3.5	10k∅	1.0M∅	100 †	50	4B	A442	DL8ah	
35	HA17904GS	5.0	6.0m	7.0m	50n	250n	3.5		13		90	60	80	4B	A308a	DL8r	
36	HA17904PS	5.0	6.0m	7.0m	50n	250n	3.5		13		90	60	80	2B	A308a	DL8n	
37	TDA0358D*	5.0	6.0m	7.0m	50n	500n	3.5		3.5	2.0k∅	1.0M∅	100 †	10 †	85 †	2B	A385	MD8a
38	uPC358C*	5.0	6.0m	7.0m	50n	250n	3.5		3.5	2.0k∅	88	65	07	A421	DL8au		
39	uPC1251C*	5.0	6.0m	7.0m	50n	250n	3.5		3.5	2.0k∅	88	65	27	A421	DL8au		
40	LM2904JG	5.0	6.0m	7.0u	10m	50n	500n	3.5	20	2.0k∅	100	85	4B	A308a	DL8v		
41	LM2904P	5.0	6.0m	7.0u	10m	50n	500n	3.5	20	2.0k∅	100	85	4B	A356	DL8p		
42	LM124N*	5.0	6.0m	7.0u	7.0m	100n	300n	3.5	5.0 †	10k∅	1M∅†	94	70	5C	A308	DL14aw	
43	LM158H*	5.0	6.0m	7.0u	7.0m	100n	500n	3.5	3.5	2.0k∅	1.0M∅†	94	70	5C	A308a	CN1d	
44	LM158J*	5.0	6.0m	7.0u	7.0m	100n	300n	28 Δ	3.3	2k∅	91	70	5C	A396b	DL8s		
45	LM158JG	5.0	6.0m	7.0u	7.0m	100n	300n	3.5	3.5	2.0k∅	94	70	5C	A308a	DL8v		
46	LM158N*	5.0	6.0m	7.0u	7.0m	100n	300n	3.5	5.0 †	10k∅	1.0M∅†	94	70	5C	A421	DL8ao	
47	LM158T*	5.0	6.0m	7.0u	7.0m	100n	300n	3.5	5.0 †	10k∅	1.0M∅†	94	70	5C	A421a	CN1g	
48	LM224FJ*	5.0	6.0m	7.0u	7.0m	100n	300n	3.5	5.0 †	10k∅	1.0M∅†	94	70	2B	A308	DL14bn	
49	LM224N	5.0	6.0m	7.0u	7.0m	100n	300n	3.5	5.0 †	10k∅	1.0M∅†	94	70	2B	A308	DL14aw	
50	LM258HJ*	5.0	6.0m	7.0u	7.0m	100n	300n	28 Δ	3.3	2k∅	91	70	2B	A373d	CN1d		
51	LM258J*	5.0	6.0m	7.0u	7.0m	100n	300n	28 Δ	3.3	2k∅	91	70	2B	A396b	DL8s		
52	LM258N*	5.0	6.0m	7.0u	7.0m	100n	300n	28 Δ	3.3	2k∅	91	70	2B	A396b	DL8e		
53	LM258N	5.0	6.0m	7.0u	7.0m	100n	300n	3.5	5.0 †	10k∅	94	70	2B	A421	DL8ao		
54	LM258T*	5.0	6.0m	7.0u	7.0m	100n	300n	3.5	5.0 †	10k∅	94	70	2B	A421a	CN1g		
55	SE532N*	5.0	6.0m	7.0u	7.0m	100n	300n	3.0	27	10k∅	1.0M∅†	96	70	5C	A308a	DL8ao	
56	SE532T*	5.0	6.0m	7.0u	7.0m	100n	300n	3.0	27	10k∅	1.0M∅†	96	70	5C	A308a	TO99	
57	LM258H	5.0	6.0m	7.0u	7.5m	150n	500n	3.5	20m	10k∅	1.0M∅	88	70	2B	A308a	CN1d	
58	LM358H	5.0	6.0m	7.0u	7.5m	150n	500n	3.5	20m	10k∅	1.0M∅	88	70	07	A308a	CN1d	
59	LM358N	5.0	6.0m	7.0u	7.5m	150n	500n	3.5	20m	10k∅	1.0M∅	88	70	07	A308a	DL8ah	
60	NE532N*	5.0	6.0m	7.0u	7.5m	150n	500n	3.5	27	10k∅	1.0M∅†	88	65	07	A308a	DL8ac	
61	NE532T*	5.0	6.0m	7.0u	7.5m	150n	500n	3.5	27	10k∅	1.0M∅†	88	65	07	A308a	CN1g	
62	SA532N*	5.0	6.0m	7.0u	7.5m	150n	500n	3.0	27	10k∅	1.0M∅†	88	65	4B	A308a	DL8ao	
63	SA532T*	5.0	6.0m	7.0u	7.5m	150n	500n	3.0	27	10k∅	1.0M∅†	88	65	4B	A308a	TO99	
64	LM258JG	5.0	6.0m	7.0u	9.0m	150n	500n	3.5	3.5	2.0k∅	88	70	2B	A308a	DL8v		
65	LM258P	5.0	6.0m	7.0u	9.0m	150n	500n	3.5	3.5	2.0k∅	88	70	2B	A308a	DL8p		
66	LM324F*	5.0	6.0m	7.0u	3.0m	150n	500n	3.5	5.0 †	10k∅	1.0M∅†	88	65	07	A308	DL14bn	
67	LM324N	5.0	6.0m	7.0u	9.0m	150n	500n	3.5	5.0 †	10k∅	1.0M∅†	88	65	07	A308	DL14aw	
68	LM358HΔ*	5.0	6.0m	7.0u	9.0m	150n	500n	28 Δ	3.3	2k∅	25	65	07	A373d	CN1d		
69	LM358J*	5.0	6.0m	7.0u	9.0m	150n	500n	28 Δ	3.3	2k∅	25	65	07	A396b	DL8s		
70	LM358JG	5.0	6.0m	7.0u	9.0m	150n	500n	3.5	3.5	2.0k∅	88	70	07	A308a	DL8v		
71	LM358N	5.0	6.0m	7.0u	9.0m	150n	500n	3.5	5.0 †	10k∅	88	65	07	A421	DL8ao		
72	LM358N*	5.0	6.0m	7.0u	9.0m	150n	500n	28 Δ	3.3	2k∅	25	65	07	A396b	DL8e		
73	LM358P	5.0	6.0m	7.0u	9.0m	150n	500n	3.5	3.5	2.0k∅	88	70	07	A308a	DL8p		
74	LM358T*	5.0	6.0m	7.0u	9.0m	150n	500n	3.5	5.0 †	10k∅	88	65	07	A421a	CN1g		
75	SA534F*	5.0	6.0m	7.0u	9.0m	150n	500n	3.5	5.0 †	10k∅	88	65	4B	A308	DL14bn		
76	SA534N*	5.0	6.0m	7.0u	9.0m	150n	500n	3.5	5.0 †	10k∅	88	65	4B	A308	DL14aw		
77	LM2904H*	5.0	6.0m	7.0u	10m	200n	500n	24 Δ	3.3	10k∅	100	50	4B	A373d	CN1d		
78	LM2904J*	5.0	6.0m	7.0u	10m	200n	500n	24 Δ	3.3	10k∅	100	50	4B	A396b	DL8s		
79	LM2904N	5.0	6.0m	7.0u	10m	200n	500n	24 Δ	3.3	10k∅	100	50	4B	A396b	DL8e		
80	LM158AH*	5.0	6.0m	15u	4.0m	30n	100n	3.5	3.5	2.0k∅	1.0M∅†	94	70	5C	A308a	CN1d	
81	LM158AN*	5.0	6.0m	15u	4.0m	30n	100n	3.5	5.0 †	10k∅	1.0M∅†	94	70	5C	A421	DL8ao	
82	LM158AT*	5.0	6.0m	15u	4.0m	30n	100n	3.5	5.0 †	10k∅	1.0M∅†						

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C			T C E O P D	DRAWINGS	OUT- LINE Δ=MO	
		1] RATED	2] MAX	OVER OPERATING TEMP. RANGE		MAX VOLTAGE		MAX CURRENT		CM RANGE	DIFF IMP	3dB BW	O.L. VOLT. GAIN	SLEW RATE				CMRR
				3] VOLT. (ΔV)	4] IDLE P (W)	5] (V/°C)	6] JOFST (V)	7] OFFSET (A)	8] BIAS (A)										9] MIN. @25°C (ΔV)	10] P-P CUR. (ΔA)
1	uPC324C*	5.0	10m	7.0m	50n	50n	50n	3.5	3.5	3.5	2.0k	100	85	07	A308	Δ001AA		
2	uPC451C*	5.0	10m	7.0m	50n	50n	50n	3.5	3.5	3.5	2.0k	100	85	27	A308	Δ001AA		
3	LM224J*	5.0	10m	9.0m	150n	500n	500n	3.5	26	2.0k	88	88	58	28	A308	DL14h		
4	JM224N*	5.0	10m	9.0m	150n	500n	500n	3.5	26	2.0k	88	88	65	28	A308	DL14bw		
5	LM124F	5.0	10m	7.0u	5.0m	30n	150n	3.5	20m	10k	100	100	70	5C	A308	FP29a		
6	LM124JC	5.0	10m	7.0u	5.0m	30n	150n	3.5	20m	10k	100	100	70	5C	A308	TO116		
7	CA124E*	5.0	10m	7.0u	7.0m	100n	300n	3.5	27	10k	83	83	70	5C	A308	Δ001AB		
8	LM324N	5.0	10m	7.0u	7.0m	50n	250n	3.5	20m	10k	88	88	65	07	A308	DL14z		
9	CA224E*	5.0	10m	7.0u	9.0m	150n	500n	3.5	27	10k	83	83	65	5C	A308	Δ001AB		
10	CA324E*	5.0	10m	7.0u	9.0m	150n	500n	3.5	27	10k	83	83	65	5C	A308	Δ001AB		
11	CA324H*	5.0	10m	7.0u	9.0m	150n	500n	3.5	27	10k	83	83	65	5C	A308	CH16aa		
12	LM124J	5.0	15m	7.0u	7.0m	100n	300n	3.5	3.5	2.0k	1.0M	94	70	5C	A303	DL14f		
13	LM324JC	5.0	15m	7.0u	7.0m	150n	500n	3.5	3.5	2.0k	1.0M	88	65	07	A308	DL14f		
14	LM2902J*	5.0	15m	7.0u	10m	200n	500n	3.5	3.5	1.0k	1.0M	100	50	48	A306	DL14bi		
15	LM2904N	5.0	15m	7.0u	10m	200n	500n	3.5	3.5	1.0k	1.0M	100	50	48	A307a	DL14bi		
16	LM124AF	5.0	15m	20u	4.0m	30n	100n	3.5	26	2.0k	1.0M	94	70	5C	A308	FP29a		
17	LM124AJ	5.0	15m	20u	4.0m	30n	100n	3.5	26	2.0k	1.0M	94	70	5C	A308	DL14bf		
18	LM224AJ	5.0	15m	20u	4.0m	30n	100n	3.5	26	2.0k	1.0M	94	70	28	A308	DL14bf		
19	LM224F	5.0	15m	20u	4.0m	30n	100n	3.5	3.5	2.0k	1.0M	94	70	28	A308	FP29a		
20	LM224J	5.0	15m	20u	4.0m	30n	100n	3.5	3.5	2.0k	1.0M	94	70	28	A308	DL14bf		
21	LM324AJ	5.0	15m	30u	5.0m	75n	200n	3.5	26	2.0k	1.0M	88	65	07	A308	DL14bf		
22	LM324AN	5.0	15m	30u	5.0m	75n	200n	3.5	26	2.0k	1.0M	88	65	07	A308	DL14z		
23	LC507(A)	5.0	25m	7.0u	7.0m	100n	300n	2.3	4.7k	1.5k	78	78	28	A598	MS43			
24	CA258S	5.0	180m	7.0u	7.0m	100n	300n	28	3.5	2.0k	94	94	70	5C	A308a	CN46		
25	CA158S	5.0	180m	7.0u	7.0m	100n	300n	28	3.5	2.0k	94	94	70	5C	A308a	CN46		
26	CA158T	5.0	180m	7.0u	7.0m	100n	300n	28	3.5	2.0k	94	94	70	5C	A308a	Δ002AL		
27	CA258T	5.0	140m	7.0u	7.0m	100n	300n	28	3.5	2.0k	94	94	70	5C	A308a	Δ002AL		
28	CA358S	5.0	180m	7.0u	9.0m	150n	500n	28	3.5	2.0k	88	88	65	5C	A308a	CN46		
29	CA358T	5.0	180m	7.0u	9.0m	150n	500n	28	3.5	2.0k	88	88	65	5C	A308a	Δ002AL		
30	CA158AS	5.0	180m	15u	4.0m	30n	100n	28	3.5	2.0k	94	94	70	5C	A308a	CN46		
31	CA158AT	5.0	180m	15u	4.0m	30n	100n	28	3.5	2.0k	94	94	70	5C	A308a	Δ002AL		
32	CA258AG	5.0	180m	15u	4.0m	30n	100n	28	3.5	2.0k	94	94	70	5C	A400a	DL8ad		
33	CA258AS	5.0	180m	15u	4.0m	30n	100n	28	3.5	2.0k	94	94	70	5C	A308a	CN46		
34	CA258AT	5.0	180m	15u	4.0m	30n	100n	28	3.5	2.0k	94	94	70	5C	A308a	Δ002AL		
35	CA358AS	5.0	180m	20u	5.0m	75n	200n	28	3.5	2.0k	88	88	65	5C	A308a	CN46		
36	CA358AT	5.0	180m	20u	5.0m	75n	200n	28	3.5	2.0k	88	88	65	5C	A308a	Δ002AL		
37	LH2201AD	5	500m	7.0u	7.0m	100n	300n	2.3	1.5M	24	25	10	28	A220	DL16u			
38	LH2301AD	5	500m	7.0u	7.0m	100n	300n	2.3	0.5M	24	15	10	28	A220	DL16u			
39	uA124DM	5.0	670m	7.0u	7.0m	100n	300n	3.5	3.5	10k	100	100	70	5C	A308	DL14ak		
40	uA224DM*	5.0	670m	7.0u	7.0m	100n	300n	3.5	28	10k	100	100	70	28	A308	DL14ak		
41	uA324DC	5.0	670m	7.0u	9.0m	150n	500n	3.5	28	10k	100	100	65	07	A308	DL14ak		
42	uA324PC	5.0	670m	7.0u	9.0m	150n	500n	3.5	28	10k	100	100	65	07	A308	DL14bo		
43	MC1776G†	6.0	960u	6.0m	15n	50n	50n	2.0	5.0M	3.6	5.0k	91	350m	70	5C	A187	CN1d	
44	MC1776U†	6.0	960u	6.0m	15n	50n	50n	2.0	5.0M	3.6	5.0k	91	350m	70	5C	A187	DL8s	
45	MC1776CG†	6.0	1.0m	7.5m	25n	50n	50n	2.0	5.0M	4.0	5.0k	85	350m	70	07	A187	CN1d	
46	MC1776CF†	6.0	1.0m	7.5m	25n	50n	50n	2.0	5.0M	4.0	5.0k	85	350m	70	07	A187	DL8ac	
47	MC1776CU†	6.0	1.0m	7.5m	25n	50n	50n	2.0	5.0M	4.0	5.0k	85	350m	70	07	A187	DL16m	
48	uA7351DC#1*	8.0	40m	5.4u	15m	1.0u	8.0u	8.0	10T	7.2	5.0k	72	90m	48	A430	DL16m		
49	ICL7621BCT	10	250m	7.0m	300p	400p	8.4	8.4	10T	9.6	100k	48M	16	70	07	A504c	TO99	
50	ICL7600CPD	10	375m	10u	150p	300p	4.4	4.4	10	10	0.3M	0.3M	0.5	88	07	A500	DL14cm	
51	ICL7601CPD	10	375m	10u	150p	300p	4.4	4.4	10	10	0.3M	0.3M	0.5	88	07	A500	DL14cm	
52	MA207CP	10	380m	50c	3.0m	1.0u	1.0u	5.8	5.0	153m	1.5G	50	80	07	A294	CH0		
53	ICL7600JD	10	500m	10u	150p	300p	4.4	4.4	10	10	0.3M	0.3M	0.5	88	07	A500	DL14ck	
54	ICL7601JD	10	500m	10u	150p	300p	4.4	4.4	10	10	0.3M	0.3M	0.5	88	07	A500	DL14ck	
55	ICL7600MD	10	500m	40u	150p	300p	4.4	4.4	10	10	0.3M	0.3M	0.5	88	07	A500	DL14ck	
56	ICL7601MD	10	500m	40u	150p	300p	4.4	4.4	10	10	0.3M	0.3M	0.5	88	07	A500	DL14ck	
57	ICL7622ACJD	10	500m	3.0m	300p	400p	8.4	8.4	10T	9.6	100k	48M	16	70	07	A504c	DL14co	
58	LM1308F	12	5u	7m	75n	400n	1.2	1.2	4.5	4.5	10k	3.0	63	07	A515	HT1		
59	TDA4250B#2	12	132u	6.5m	6.0n	12n	27	27	25	100k	94	25m	70	28	A387	DL8ai		
60	TDA4250D#2	12	132u	6.5m	6.0n	12n	27	27	25	100k	94	25m	70	28	A387	MD8a		
61	RM3078AT†	12	300u	4.5m	5.0n	50n	10	10	1.7M	10	12m	2.0k	80	5C	A417	TO99		
62	CA6078AH	12	300u	6.0u	3.5m	2.5n	12n	26	1.7m	28	10k	2.0k	80	5C	A173d	CH0		
63	CA6078AS	12	300u	6.0u	3.5m	2.5n	12n	26	1.7m	28	10k	2.0k	80	5C	A173d	CH0		
64	CA6078AT	12	300u	6.0u	3.5m	2.5n	12n	26	1.7m	28	10k	2.0k	80	5C	A173d	Δ002AL		
65	ICL8021MTA	12	360u	5.0u	4.0m	11n	32n	24	3.0M	22	2.0m	270k	96	160m	70	5C	A123	TO99
66	ICL8021CTA	12	360u	5.0u	7.5m	15n	50n	24	3.0M	22	2.0m	270k	96	160m	70	5C	A123	TO99
67	DA4250	12	480u	5.0u	4.0m	5.0n	15n	24	3.0M	22	1.2m	250k	100	160m	70	5C	A123	TO99
68	ICL8021MBH	12	480u	5.0u	4.0m	10n	30n	24	3.0M	22	1.0k	270k	96	160m	70	5C	A122	FP60
69	SG4250T	12	480u	5.0u	4.0m	5.0n	15n	24	3.0M	22	1.0k	500k	100	400m	70	5C	A199	TO99
70	SG4250V	12	480u	5.0u	4.0m	5.0n	15n	30	3.0M	22	1.0k	250k	96	160m	70	5C	A123	TO99
71	UC4250	12	480u	5.0u	4.0m	5.0n	15n	24	3.0M	22	1.0k	300k	100	100m	70	5C	A123	TO99
72	UC4252*	12	480u	5.0u	4.0m	5.0n	15n	24	3.0M	22	1.0k	250k	100	160m	70	5C	A394	DL14bt
73	UC4253*	12	480u	5.0u	4.0m	5.0n	15n	24	3.0M	22	1.0k	250k	100	160m	70	5C	A123	DL14ee
74	MA112	12	500u	15	3.0m	4.0n	15n	7.0	7.0	400m	50k	70	01	70	07	A474	TO99	
75	UC4252C*	12	600u	5.0u	2.0m	15n	50n	14	3.0M	12	10k	250k	97	100m	70	06	A394	DL14bt
76	ICL8021CBH	12	600u	5.0u	7.5m	15n	50n	24	3.0M	22	1.0k	270k	96	160m	70	5C	A123	FP60
77	SG4250CM	12	600u	5.0u	7.5m	15n	50n	24	3.0M	22	1.0k	500k	96	400m	70	5C	A199	DL8h
78	SG4250CT	12	600u	5.0u	7.5m	15n	50n	24	3.0M	22	1.0k	500k	96	400m	70	5C	A199	TO99
79	SG4250CY	12	600u	5.0u	7.5m	15n	50n	30	3.0M	22	1.0k	250k	96	160m	70	5C	A123	TO99
80	UC4250C	12	600u	5.0u	7.5m	15n	50n	24										

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS		
		1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		CM RANGE (ΔV)	DIFF IMP. (Ω)	P.P. VOLT. (ΔV)	P.P. CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	E O P M E	C K T.	OUT-LINE Δ=MO
				3 | DRFT (V/°C)	4 | OFST (V)	5 | OFFSET (A)	6 | BIAS (A)											
1	LM359J	12	1.0															
2	JANM38510/10602BGB	13	§*															
3	JANM38510/10602BGA	13	§*															
4	JANM38510/10602BGC	13	§*															
5	MC3303J*	14	§	98m	10u	10m	250n	1.0u	13	300k	24	10k	1.0M	86	600m	70	48	
6	MC3303N*	14	§	98m	10u	10m	250n	1.0u	13	300k	24	10k	1.0M	86	600m	70	48	
7	CA3060*	14	§	200m	10u	5.0m	1.0u	5.0u	9.5	10k	10	1.3u	100m	70	5C	A180	Δ001AE	
8	CA3060H*	14	§	200m	10u	5.0m	1.0u	5.0u	9.5	10k	10	1.3u	100m	70	5C	A180	CH16p	
9	MC3303L	14	§	210m	10u	5.0m	1.0u	1.0u	13	300k	12	10k	9.0k	86	600m	70	48	
10	MC3303P	14	§	210m	10u	10m	250n	1.0u	13	300k	12	10k	9.0k	86	600m	70	48	
11#	TDF3403DP*	14	§	500m	10u	10m	250n	1.0u	13	300k	12	10k	9.0k	86	600m	70	5C	
12#	AD644LH	15	*			1.0m	5.0p	35p	12	1.0T	20	2.0k	2.0M	92	8.0	80	07	
13#	AD644KH	15	*			2.0m	5.0p	35p	12	1.0T	20	2.0k	2.0M	92	8.0	80	07	
14#	SE5534AH	15	*			3.0m	500n		12	*	24	600	200k	50	6.0	80	5C	
15#	SE5534H	15	*			3.0m	500n		12	*	24	600	200k	50	6.0	80	5C	
16#	AD644JH	15	*			3.5m	10p	75p	12	1.0T	20	2.0k	2.0M	86	8.0	76	07	
17#	AD644SH	15	*			3.5m	5.0p	35p	12	1.0T	20	2.0k	2.0M	86	8.0	80	5C	
18#	AD644SH/833B	15	*			3.5m	5.0p	35p	12	1.0T	20	2.0k	2.0M	86	8.0	80	5C	
19#	NE5532AH	15	*			5.0m	200n		12	*	24	600	140k	10	9.0	70	07	
20#	NE5532AN	15	*			5.0m	200n		12	*	24	600	140k	10	9.0	70	07	
21#	NE5532H	15	*			5.0m	200n		12	*	24	600	140k	10	9.0	70	07	
22#	NE5532N	15	*			5.0m	200n		12	*	24	600	140k	10	9.0	70	07	
23#	NE5534AH	15	*			5.0m	400n		12	*	24	600	200k	25	6.0	70	07	
24#	TCA332A	15	*			15m	40n	80n	13	*	28	2.0k	80	9.0	65	5C		
25#	TCA332G	15	*			15m	40n	80n	13	*	28	2.0k	80	9.0	65	5C		
26#	AD647LH	15	*	42m	2.5u	.25m	2.0p	25p	10	1.0T	20	2.0k	1.0M	108	3.0	30	07	
27#	AD647KH	15	*	42m	5.0u	500u	2.0p	25p	10	1.0T	20	2.0k	1.0M	108	3.0	30	07	
28#	AD647SH/883B(M)	15	*	42m	10u	0.5m	2.0p	25p	10	1.0T	20	2.0k	1.0M	108	3.0	30	07	
29#	AD647JH	15	*	42m	10u	1.0m	5.0p	35p	10	1.0T	20	2.0k	1.0M	108	3.0	30	07	
30#	MC1556FE	15	*	45m		6.0m	2.0u	30n	24	250MS	24	2.0k	1.0M	100	2.5	80	5C	
31	AD545MH	15	*	45m	3.0u	250u	1.0p	10p	10	*	20	2.0k	20	20	300m	76	07	
32	AD545LH	15	*	45m	5.0u	500u	1.0p	10p	10	*	20	2.0k	20	20	300m	76	07	
33	CA3160AE	15	*	45m	6.0u	5.0m	20p	30p	10	1.5T	12	12m	4.0M	94	10	80	5C	
34	CA3160AS	15	*	45m	6.0u	5.0m	20p	30p	10	1.5T	12	12m	4.0M	94	10	80	5C	
35	CA3160AT	15	*	45m	6.0u	5.0m	20p	30p	10	1.5T	12	12m	4.0M	94	10	80	5C	
36	CA3160E	15	*	45m	8.0u	15m	30p	50p	10	1.5T	12	12m	4.0M	94	10	70	5C	
37	CA3160H	15	*	45m	8.0u	15m	30p	50p	10	1.5T	12	12m	4.0M	94	10	70	5C	
38	CA3160S	15	*	45m	8.0u	15m	30p	50p	10	1.5T	12	12m	4.0M	94	10	70	5C	
39	CA3160T	15	*	45m	8.0u	15m	30p	50p	10	1.5T	12	12m	4.0M	94	10	70	5C	
40	AD545KH	15	*	45m	15u	1.0m	5p	10p	10	*	20	2.0k	20	20	300m	70	07	
41	CA3160BS	15	*	45m	15u	2.0m	10p	20p	10	1.5T	12	12m	4.0M	100	10	86	5C	
42	CA3160BT	15	*	45m	15u	2.0m	10p	20p	10	1.5T	12	12m	4.0M	100	10	86	5C	
43	AD545JH	15	*	45m	25u	1.0m	5p	2.0p	10	*	20	2.0k	20	20	300m	66	07	
44	AD544LH	15	*	75m	5.0u	5.0u	2.0p	25p	10	*	20	2.0k	50	50	10	80	07	
45	AD544KH	15	*	75m	10u	2.0p	25p	25p	10	*	20	2.0k	50	50	10	80	07	
46	AD544SH #mil	15	*	75m	15u	2.0p	25p	25p	10	*	20	2.0k	50	50	10	80	5C	
47	AD544JH	15	*	75m	20u	5.0p	50p	50p	10	*	20	2.0k	30	30	5.0	74	07	
48#	AD741SH/883B	15	*	84m	15u	4.0m	25n	250n	30	Δ	2.0M	20	1.0k	94	5.0m	90	5C	
49	MC1456FE	15	*	90m		14m	10u	10n	22	250MS	22	2.0k	1.0M	97	2.5	70	07	
50	MA00087CP	15	*	90m	15u	500u	100p	400p	11	*	24	10m	160k	86	10	97	A493	
51	MA00088CP	15	*	90m	15u	3.0m	100p	400p	11	*	24	10m	160k	86	10	97	A493	
52#	MB3615M	15	*	120m		7.0m	50u	250u	13	*	24	10k	1.0M	36	600m	70	07	
53	LF355H	15	*	120m	5.0u	10m	50p	200p	20	1.0T	24	10k	2.5M	88	5.0	80	07	
54	MC1558FE*	15	*	150m		6.0m	500n	1.5u	24	2.0M	24	10k	1.0M	94	800m	70	5C	
55	MC1458FE*	15	*	170m		7.5m	300n	800n	24	2.0M	24	10k	1.0M	88	800m	70	07	
56	CA3401E	15	*	210m		500m	500n	100k	10	5.0m	5.0M	66	600m	66	600m	5C		
57	CA3401H	15	*	210m		500m	500n	100k	13	5.0m	5.0M	66	600m	66	600m	5C		
58	MC3301P	15	*	215m		100n	100k	100k	13	3.0m	4.0M	40	600m	55	55	48		
59	MC3401L	15	*	215m		500n	100k	100k	13	5.0m	5.0M	40	600m	55	55	07		
60	MC3401P	15	*	215m		500n	100k	100k	13	5.0m	5.0M	40	600m	55	55	07		
61	CA3130AE	15	*	225m	10u	5.0m	20p	30p	10	1.5T	12	2.0k	15M	94	10	80	5C	
62	CA3130AS	15	*	225m	10u	5.0m	20p	30p	10	1.5T	12	2.0k	15M	94	10	80	5C	
63	CA3130AT	15	*	225m	10u	5.0m	20p	30p	10	1.5T	12	2.0k	15M	94	10	80	5C	
64	CA3130E	15	*	225m	10u	15m	30p	30p	10	1.5T	12	2.0k	15M	94	10	70	5C	
65	CA3130H	15	*	225m	10u	15m	30p	30p	10	1.5T	12	2.0k	15M	94	10	70	5C	
66	CA3130S	15	*	225m	10u	15m	30p	30p	10	1.5T	12	2.0k	15M	94	10	70	5C	
67	CA3130T	15	*	225m	10u	15m	30p	30p	10	1.5T	12	2.0k	15M	94	10	70	5C	
68	CA3130BS	15	*	225m	15u	2.0m	10p	10p	10	1.5T	12	2.0k	15M	100	10	86	5C	
69	CA3130BT	15	*	225m	15u	2.0m	10p	10p	10	1.5T	12	2.0k	15M	100	10	86	5C	
70	NE5534H	15	*	240m		5.0m	400n	2.0u	24	30k	24	600	10M	88	13	70	06	
71	uPC1158H2	15	*	270m														
72	99i7	15	§	270m	100u	20m	10p	50p	27	100G	30	20m	100k	54	200	40	6C	
73	uA318HC	15	*	300m		10m	200u	500u	23	500k	24	15k	86	25	70	07		
74	LF356H	15	*	300m	5.0u	10m	50p	200p	20	1.0T	24	10k	5.0M	88	12	90	07	
75#	LS204CM	15	*	400m	5.0u	5m	100n	700n		.5M	28	1.5M	86	1.0	86	07		
76	LF351AN1	15	*	500m		2.0n	5.0n	8.0n	22	Δ	10T	24	3M	10	80	07		
77	LF351BN1	15	*	500m		4.0n	8.0n	8.0n	22	Δ	10T	24	4M	10	80	07		
78#	AN6552	15	*	500m		8.0m	200n	500n	15	Δ*			86		80	07		
79#	LA6458D	15	*	500m		6.0m	200n	500n					100	1.1	90	16		
80#	LA6458S	15	*	500m		6.0m	200n	500n					100	1.1	90	16		
81	LM748J	15	*	500m		6.0m	500n	1.5u		300k	24	Δ	25	70	5C			
82#	TDE0148DP	15	*	500m		7.5m	100n	250n					500k	0.4	70	28		
83	OP420BY	15	*	500m	5.0u	2.5m	1.5n	20n	13	Δ	14		150k	800	86			
84	OP420FY	15	*	500m	5.0u	2.5m	1.5n	20n	13	Δ	14		150k	800	86			
85#	SE538FE	15	*	500m	6.0u	5.0m	40n	40n	12	*	20	2.0k	6.0M	50	80	70	5C	
86#	NE538FE	15	*	500m	6.0u	7.0m	80n	80n	12	*	20	2.0k	6.0M	50	60	70	07	

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C				T O M E	C K T.	D R A W I N G S	O U T - L I N E Δ = MO
		1] RATED	2] MAX	OVER OPERATING TEMP. RANGE			CM RANGE	DIFF IMP.	P-P VOLT.	P-P CUR.	3dB BW	O.L. VOLT.	SLEW RATE	CMRR					
				3] DRIFT	4] OFFSET	MAX VOLTAGE									MAX CURRENT					MIN.-@25°C
1	MA00318CP	15	500mV	10u	6.0m	50n	100n	26	†	24	20m	800K	200	50	80	57	A200a		
2	OP420HP	15	500mV	15u	8.0m	6.0n	50n	13	Δ	14		150k†	200	76			A362		
3	OP420HY	15	500mV	15u	8.0m	6.0n	50n	13	Δ	14		150k†	200	76			A362		
4	NE536H	15	500mV	30u†	3.0m†	5.0p†	100p†	10	*	20	2.0kΩ	100k†	50	6.0	†	07	A373b	CN1g	
5	LS204AT	15	520mV	5.0u†	3.5m	40n	300n			28	†	1.8M†	90	1.5	†	07	A373	TO99	
6	LS204T	15	520mV	5.0u†	3.5m	40n	300n			28	†	1.8M†	90	1.5	†	07	A373	TO99	
7	LS204CT	15	520mV	5.0u†	5m	100n	700n			28	†	1.5M†	86	1.0	†	07	A373	TO99	
8	LM13600J	15	600mV		5.0m		80u	24		24	∅	2M†	50	†	07	A487	16-41		
9	HA17301G*	15	625mV				300n					2.6M†	60	200m†	63	†	A410	DL14cs	
10	HA17902G*	15	625mV		8.0m	50n	500n	14	§	13	†	75	600m†	80	†	48	A308	DL14cs	
11	HA17902P*	15	625mV		8.0m	50n	500n	14	§	13	†	75	600m†	80	†	27	A308	DL14cs	
12	XR2208P§	15	625mV	20u	3.0m§	75n§	200n§	22		20	2.0kΩ	8.0M†	70	500m	70	07	A257	DL16ao	
13	XR2208CP§	15	625mV	30u	6.0m§	100n§	300n§	22		20	2.0kΩ	8.0M†	70	500m	70	07	A257	DL16ao	
14	LS204CB	15	665mV	5.0u†	5m	100n	700n			28	†	1.5M†	86	1.0	†	07	A373	8-36	
15	uA3303DC	15	670mV		5.0m	50n	700n	13		20		9.0k†	50	600m†	70	07	A362	DL14br	
16	uA3303DC	15	670mV	10u†	5.0m	250n	1.0u	12		12	10kΩ	1.0M†	86	600m†	70	07	A362	DL14br	
17	uA3303PC	15	670mV	10u†	5.0m	250n	1.0u	12		12	10kΩ	1.0M†	86	600m†	70	48	A362	DL16z	
18	TL087LJG	15	680mV		2.0m	3p	400p	11	§	24		3M†	13	†	80	28	A200a	DL8v	
19	TL087IP	15	680mV		2.0m	3p	400p	11	§	24		3M†	13	†	80	28	A200a	DL8p	
20	TL287LJG	15	680mV		2.0m	3n	20n	11	†	24		3M†	13	†	80	28	A396b	DL8v	
21	TL287IP	15	680mV		2.0m	3n	20n	11	†	24		3M†	13	†	80	28	A396b	DL8p	
22	TL287MJG	15	680mV		3m	25n	100n	11	†	24		3M†	13	†	80	5C	A396b	DL8v	
23	TL088LJG	15	680mV		6.0m	3p	400p	11	†	24		3M†	13	†	80	28	A200a	DL8v	
24	TL088IP	15	680mV		6.0m	3p	400p	11	†	24		3M†	13	†	80	28	A200a	DL8p	
25	TL288LJG	15	680mV		6.0m	3n	20n	11	†	24		3M†	13	†	80	28	A396b	DL8v	
26	TL288IP	15	680mV		6.0m	3n	20n	11	†	24		3M†	13	†	80	28	A396b	DL8p	
27	TL060ACP	15	680mV		7.5m	3n	7n	11	*	20		1M†	3.5	†	80	07	A396f	DL8p	
28	TL060AGJG	15	680mV		7.5m	3n	7n	11	*	20		1M†	3.5	†	80	07	A396f	DL8v	
29	TL070ACJG	15	680mV		7.5m	2.0n	7.0n	11	*	24		3M†	13	†	80	07	A396f	DL8v	
30	TL070ACP	15	680mV		7.5m	2.0n	7.0n	11	*	24		3M†	13	†	80	07	A396f	DL8p	
31	TL060JG	15	680mV		9m	10n	20n	11	*	20		1M†	3.5	†	80	28	A396f	DL8v	
32	TL060IP	15	680mV		9m	10n	20n	11	*	20		1M†	3.5	†	80	28	A396f	DL8p	
33	TL060MJG	15	680mV		9m	20n	50n	11	*	20		1M†	3.5	†	80	5C	A396f	DL8v	
34	TL070JG	15	680mV		9m	10n	20n	11	*	24		3M†	13	†	80	28	A396	DL8v	
35	TL070IP	15	680mV		9m	10n	20n	11	*	24		3M†	13	†	80	28	A396	DL8p	
36	TL070MJG	15	680mV		9m	20n	50n	11	*	24		3M†	13	†	80	5C	A396	DL8v	
37	TL070CJG	15	680mV		13m	2.0n	7.0n	10	*	24		3M†	13	†	70	07	A396	DL8v	
38	TL070CP	15	680mV		13m	2.0n	7.0n	10	*	24		3M†	13	†	70	07	A396	DL8p	
39	TL060CJG	15	680mV		20m	5n	10n	10	*	20		1M†	3.5	†	70	07	A396f	DL8v	
40	TL060CP	15	680mV		20m	5n	10n	10	*	20		1M†	3.5	†	70	07	A396f	DL8p	
41	XR2208M§	15	750mV	20u	3.0m§	75n§	200n§	22	§	20	2.0kΩ	8.0M†	70	500m	70	5C	A257	DL16ao	
42	XR2208N§	15	750mV	20u	3.0m§	75n§	200n§	22	§	20	2.0kΩ	8.0M†	70	500m	70	07	A257	DL16ao	
43	XR2208CN§	15	750mV	30u	6.0m§	100n§	300n§	22	§	20	2.0kΩ	8.0M†	70	500m	70	07	A257	DL16ao	
44	SE5534AFE	15	800mV		3.0m	500n	1.5u	24		24	600 ∅	200K†	13	80	5C	A409	DL8aw		
45	SE5534FE	15	800mV		3.0m	500n	1.5u	24		24	600 ∅	200K†	13	80	5C	A409	DL8aw		
46	NE5534AFE	15	800mV		5.0m	400n	2.0u	24		24	600 ∅	200K†	13	70	07	A409	DL8aw		
47	NE5534D	15	800mV		5.0m	400n	2.0u	24		24	600 ∅	200K†	13	70	07	A409	DL8aw		
48	NE5534FE	15	800mV		5.0m	400n	2.0u	24		24	600 ∅	200K†	13	70	07	A409	DL8aw		
49	MC1558H*	15	800mV		6.0m	500n	1.5u	12	∅*	24	10kΩ	14k†	50	800m†	70	†	5C	A373d	CN1g
50	MC1458H*	15	800mV		7.5m	300n	800n	12	∅*	24	10kΩ	14k†	25	800m†	70	†	07	A373d	CN1g
51	uA741CH	15	800mV		7.5m	300n	800n	12	∅*	24	10kΩ	14k†	20	500m†	10u	†	A236	CN1g	
52	uA741H	15	800mV		7.5m	200n§	500n§	12	∅*	24	10kΩ	14k†	50	50					
53	MC14573CL*†	15	800mV	20u§	30	100p	1.0n	0.0		8.0	100kΩ	0.5M†	15	0.6	54	48	A453	DL16bq	
54	MC14573CP*†	15	800mV	20u§	30	100p	1.0n	0.0		8.0	100kΩ	0.5M†	15	0.6	54	48	A453	DL16bo	
55	MC14575CL*†	15	800mV	20u§	30	100p	1.0n	0.0		8.0	100kΩ	0.5M†	15	0.6	54	48	A453	DL16bc	
56	MC14575CP*†	15	800mV	20u§	30	100p	1.0n	0.0		8.0	100kΩ	0.5M†	15	0.6	54	48	A453	DL16bd	
57	uPC458D	15	900mV		5.0m	50n	300n					3.5M	1.6	†	80	28	A308	MO001a	
58	LM1900J	15	1.0				150n					2.5M†	2	5	†	50	5C	A410	DL14cd
59	LM2900J	15	1.0				200n§					2.5M†	1.2	5	†	70	Δ	A410	DL14cd
60	LM3900J	15	1.0				200n§					2.5M†	1.2	5	†	70	Δ	A410	DL14cd
61	LM2900N	15	1.2				200n§					2.5M†	1.2	5	†	70	Δ	A410	DL14x
62	LM3900N	15	1.2				200n§					2.5M†	1.2	5	†	70	Δ	A410	DL14x
63	TCA2365	15	6.0 Δ	50u†	10m§*	100n§	1.0u§	6.0	†	1.0M	16	470 ∅	70	8.0	70	28	A601	MT60	
64	SE5514F	16	*		2.0m	10n	10n	26		26	2.0kΩ	1.0M†	50	60	70	5C	A549a	DL14cd	
65	SE5514N	16	*		2.0m	10n	10n	26		26	2.0kΩ	1.0M†	50	60	70	5C	A549a	DL14ao	
66	NE5514F	16	*		5.0m	20n	20n	26		26	2.0kΩ	1.0M†	50	60	70	07	A549a	DL14cd	
67	NE5514N	16	*		5.0m	20n	20n	26		26	2.0kΩ	1.0M†	50	60	70	07	A549a	DL14ao	
68	TCA230	16	§		5.0m§	10u§†	10u§†	5.4	†			1.2G	48		85	†	5C	A203	TO74
69	SE5512FE	16	*	200m	1.5m	10n	10n	26		26	2.0kΩ	1.0M†	50	1.0	†	70	5C	A549	DL8aw
70	SE5512N	16	*	200m	1.5m	10n	10n	26		26	2.0kΩ	1.0M†	50	1.0	†	70	5C	A549	DL14ao

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				T E M P E	C O M P E	D R A W I N G S
		RATED	SPECS	OVER OPERATING TEMP. RANGE		MAX CURRENT		CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/US)	CMRR (dB)			
				1 | TOT. (ΔV)	2 | MAX IDLE P (W)	3 | DRIFT (V/°C)	4 | OFFSET (V)												5 | OFFSET (A)	6 | BIAS (A)
1#	MB3604C	18	150m	6.0m	5.0u	20u	3.0k	9.5	10k			60	10	70	07	A346	DL16f	
2#	MB3604M	18	150m	6.0m	5.0u	20u	3.0k	9.5	10k			60	10	70	07	A346	DL16cw	
3#	TA75558P	18 *	180m	6.0m	200n	500n	24					3.0M	86	70	48	A421	DL8bd	
4#	TA75458P	18 *	240m	5.0m	200n	500n	24					1.0M	86	70	37	A421	DL8bd	
5	ICL7650CTY	18 *	250m	.01ut	5.0u*	.50pt	10p	7.3	10T	9.6 †		2.0M	1.0 §	2.5 †	120	07	A558	
6	ICL7650ITY	18 *	250m	.01ut	5.0u*	.50pt	10p	7.3	10T	9.6 †		2.0M	1.0 §	2.5 †	120	28	A558	
7#	AM7650-2C	18	250m	50n	5.0u*	35pt	10p	5.0	1.0T	9.4	10k	2.0M	1.0M	2.5	120	07	A558	
8	LM709CN8	18 *	250m	12u	10m	750	2.0u	8.0 *	50k	20	2.0k	15M	15 Δ	250m	65	07	A003	
9	MP4136CY	18 *	340m	6.0m	200n	500n	24		0.3M	12	10k	3.0M	50k	70	07	A396e		
10	MP4136FC	18 *	340m	6.0m	200n	500n	24		0.3M	12	10k	3.0M	50k	70	07	A396e		
11	ICL7650CPD	18 *	375m	.01ut	5.0u*	.50pt	10p	7.3	10T	9.6 †		2.0M	1.0 §	2.5 †	120	07	A558	
12#	AM7650-1C	18	375m	50n	5.0u*	0.5p	35pt	5.0	1.0T	9.4	10k	2.0M	1.0M	2.5	120	07	A558	
13#	TA75458S	18 *	400m	50u	5.0m	200n	500n	24	0.3M	20	2.0k	1.1M	86	0.8	70	37	G119	
14#	AN1458	18 *	500m	4.0m	100n	250n	12 *	24				86	0.7 †	70	27	A562		
15#	AN1741	18 *	500m	4.0m	100n	250n	12 *	24				86	0.7 †	70	27	A396		
16#	AN4250	18 *	500m	6.0m	20n	75n	12 *	24				96	1.0 †	70	27	A596a		
17#	AN4558	18 *	500m	6.0m	200n	500n	12 *	24				86	2.0 †	70	27	A562		
18#	AN6553	18 *	500m	6.0m	200n	500n	15 Δ*	24				86	2.0 †	70	27	A531		
19#	TA75558S	18 *	500m	.01ut	6.0m	200n	500n	24	2.0k	20	2.0k	3.0M	86	1.0 †	70	48	G119	
20	ICL7650UD	18 *	500m	1.5u	5.0u*	.50pt	10p	7.3	10T	9.6 †		2.0M	1.0 §	2.5 †	120	28	A558	
21#	OP220AJ/883(M)	18 *	500m	1.5u	300u	2.0n	25n	28 Δ			50k	200k	1.0k		100	5C	A504c	
22#	OP220AZ/883(M)	18 *	500m	1.5u	300u	2.0n	25n	28 Δ			50k	200k	1.0k		100	5C	A504c	
23#	OP221AJ	18 *	500m	1.5u	300u	5.0n	100n	28 Δ			27	10k	1.5k	200m	95	5C	A504c	
24#	OP221AJ/883(M)	18 *	500m	1.5u	300u	5.0n	100n	28 Δ			27	10k	1.5k	200m	95	5C	A504c	
25#	OP221AZ	18 *	500m	1.5u	300u	5.0n	100n	28 Δ			27	10k	1.5k	200m	95	5C	A549	
26#	OP221AZ/883(M)	18 *	500m	1.5u	300u	5.0n	100n	28 Δ			27	10k	1.5k	200m	95	5C	A549	
27#	OP221EJ	18 *	500m	1.5u	300u	5.0n	100n	28 Δ			27	10k	1.5k	200m	95	28	A504c	
28#	OP221EZ	18 *	500m	1.5u	300u	5.0n	100n	28 Δ			27	10k	1.5k	200m	95	28	A549	
29#	OP221BJ	18 *	500m	2.0u	450u	7.0n	120n	28 Δ			27	10k	1.0k	200m	90	5C	A504c	
30#	OP221BJ/883(M)	18 *	500m	2.0u	450u	7.0n	120n	28 Δ			27	10k	1.0k	200m	90	5C	A504c	
31#	OP221BZ	18 *	500m	2.0u	450u	7.0n	120n	28 Δ			27	10k	1.0k	200m	90	5C	A549	
32#	OP221BZ/883(M)	18 *	500m	2.0u	450u	7.0n	120n	28 Δ			27	10k	1.0k	200m	90	5C	A549	
33#	OP221FJ	18 *	500m	2.0u	450u	7.0n	120n	28 Δ			27	10k	1.0k	200m	90	28	A504c	
34#	OP221FZ	18 *	500m	2.0u	450u	7.0n	120n	28 Δ			27	10k	1.0k	200m	90	28	A549	
35#	OP220BJ/883(M)	18 *	500m	2.0u	500u	2.5n	25n	28 Δ			27	50k	1.0k		98	5C	A504c	
36#	CP220BZ/883(M)	18 *	500m	2.0u	500u	2.5n	25n	28 Δ			27	50k	1.0k		98	5C	A549	
37#	OP221CJ	18 *	500m	3.0u	700u	10n	140n	28 Δ			27	10k	800 Δ	200m	80	5C	A504c	
38#	OP221CJ/883(M)	18 *	500m	3.0u	700u	10n	140n	28 Δ			27	10k	800 Δ	200m	80	5C	A504c	
39#	OP221CZ	18 *	500m	3.0u	700u	10n	140n	28 Δ			27	10k	800 Δ	200m	80	5C	A549	
40#	OP221CZ/883(M)	18 *	500m	3.0u	700u	10n	140n	28 Δ			27	10k	800 Δ	200m	80	5C	A549	
41#	OP221GJ	18 *	500m	3.0u	700u	10n	140n	28 Δ			27	10k	800 Δ	200m	80	28	A504c	
42#	OP221GZ	18 *	500m	3.0u	700u	10n	140n	28 Δ			27	10k	800 Δ	200m	80	28	A549	
43#	OP220CJ/883(M)	18 *	500m	3.0u	1.3m	5.0n	40n	28 Δ			27	50k	800 Δ		92	5C	A549	
44#	OP220CZ/883(M)	18 *	500m	3.0u	1.3m	5.0n	40n	28 Δ			27	50k	800 Δ		92	5C	A549	
45#	LM301AJ/14	18 *	500m	30u	7.5m	50n	250n	12 *	0.5M	20	2.0k		15 Δ	10	70	07	AA19a	
46	LM13600D	18 *	570m	5.0m	.60u	5.0u	24	10k					50 †	80	07	A551		
47#	LM13600N%	18 *	570m	5.0m	.60u	5.0u	24	10k					50 †	80	07	AA47		
48	NE5517D	18 *	570m	5.0m	.60u	5.0u	24	10k					50 †	80	07	A551		
49	NE5517N	18 *	570m	5.0m	.60u	5.0u	24	10k					50 †	80	07	A551		
50	TL088CU	18 *	675m	3.0m	100p	400u	1.0T						13 †	80	06	A396h		
51	TL088IU	18 *	675m	3.0m	100p	400u	1.0T						13 †	80	48	A396g		
52	TL288CU	18 *	675m	3.0m	100p	400u	1.0T						13 †	80	06	A396h		
53	TL288IU	18 *	675m	3.0m	100p	400u	1.0T						13 †	80	48	A396h		
54	TL061MU	18 *	675m	6m	0.1n	0.2n	1.0T						3.5 †	70	5C	A396g		
55	TL062MU	18 *	675m	6m	0.1n	0.2n	1.0T						3.5 †	70	5C	A396h		
56	SG1253T*	18 *	680m	4.0m	8.0n	20n	15 *	3.0	10k				200m	70	07	A383		
57	SG2253T*	18 *	680m	4.0m	8.0n	20n	15 *	3.0	10k				200m	70	07	A383		
58#	TL071BCJG%	18 *	680m	5.0m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396		
59#	TL071BCP%	18 *	680m	5.0m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396		
60#	TL072BCJG%	18 *	680m	5.0m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A182		
61#	TL072BCP%	18 *	680m	5.0m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A182		
62#	TL074BCJ%	18 *	680m	5.0m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396d		
63#	TL074BCN%	18 *	680m	5.0m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396d		
64#	TL081BCJG%	18 *	680m	5.0m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396		
65#	TL081BCP%	18 *	680m	5.0m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396		
66#	TL082BCJG%	18 *	680m	5.0m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A182		
67#	TL082BCP%	18 *	680m	5.0m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A182		
68#	TL084BCN	18 *	680m	5.0m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396d		
69	SG3253T	18 *	680m	7.5m	15n	50n	15 *	3.0	10k				200m	70	07	A383		
70#	TL071ACJG%	18 *	680m	7.5m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396		
71#	TL071ACP%	18 *	680m	7.5m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396		
72#	TL072ACJG%	18 *	680m	7.5m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A182		
73#	TL072ACP%	18 *	680m	7.5m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A182		
74#	TL074ACJ%	18 *	680m	7.5m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396d		
75#	TL074ACN%	18 *	680m	7.5m	2.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396d		
76#	TL081ACJG%	18 *	680m	7.5m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396		
77#	TL081ACP%	18 *	680m	7.5m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396		
78#	TL082ACJG%	18 *	680m	7.5m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A182		
79#	TL082ACP%	18 *	680m	7.5m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A182		
80#	TL084ACJ%	18 *	680m	7.5m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396d		
81#	TL084ACN%	18 *	680m	7.5m	3.0n	7.0n	11 *	1.0T	24	10k	4.0M	50 Δ	13 †	80	07	A396d		
82#	TL071MJG%	18 *	680m	9.0m	20n	50n	11 *	1.0T	24	10k	4.0M	35 Δ	13 †	80	5C	A396		
83#	TL072MJG%	18 *</																

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS							MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS		
		1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE			MIN. @25°C		CHAR. @25°C		3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	T O M E	C O K T.	OUT-LINE Δ=MO		
				3 | MAX VOLTAGE (V/°C)	4 | DRIFT (V)	5 | OFFST (V)	6 | MAX CURRENT (A)	7 | BIAS (A)	8 | CM RANGE (ΔV)	9 | DIFF IMP. (Ω)								10 | P.P. VOLT. (ΔV)	11 | P.P. CUR. (ΔA)
1	TL092CJG	18 *	1.1	15m§	0.2n§	0.4n§	36	1.0T†	34						A396B	DL8v			
2	TL094IN	18 *	1.2	9.0m§	2.0p§	400n§	36	1.0T†	34					A396D	Δ001AA				
3	TL094CN	18 *	1.2	15m§	0.2n§	0.4n§	36	1.0T†	34					A396D	Δ001AA				
4	MA208	18	1.3 Δ	30u	15m	100n	20n	5.0	1.0T†	7.0	1.0m	4.0M§	80	2.0	40	A554	DL14ah		
5	TL094MJ	18 *	1.4	9.0m§	2.0p§	400n§	36	1.0T†	34					A396D	DL14ah				
6	TL094CJ	18 *	1.4	15m§	2.0p§	400n§	36	1.0T†	34					A396D	DL14ah				
7	# TCA365H	18 *	15 Δ	50u§†	10m§	100n§	1.0u§	28 SE	1.0MΩ	20 †	470 ∅		80	1.0 †	75	28	A575	MT59	
8	# TAA861GΔ	20		10m§	300n§	300n§	8 *	200k†	14 †				75	60	07	A519	MD6c		
9	# TAA865GΔ	20		10m§	300n§	300n§	8 *	200k†	14 †				75	60	28	A519	MD6c		
10	# TAA861GG	20		10 §	300m§	300m§	8 *	200k†	14 †				75	60	07	A519	MD6c		
11	# TAA865GG	20		10 §	300m§	300m§	8 *	200k†	14 †				75	60	28	A519	MD6c		
12	LM10BH	20 *		2.0u§	3.0m	1.5n	30n		250k				50 §	93	5C	A513	CN17c		
13	LM10BLH	20 *		2.0u§	3.0m	1.5n	30n		150k				4.0 §	89	28	A513	CN17c		
14	LM10H	20 *		2.0u§	3.0m	1.5n	30n		250k				50 §	93	5C	A513	CN17c		
15	LM10CH	20 *		5.0u§	5.0m	3.0n	40n		115k				25 §	90	5C	A513	CN17c		
16	LM10CLH	20 *		5.0u§	5.0m	3.0n	40n		115k				3.0 §	80	07	A513	CN17c		
17	OPA11HT	20		5.0u§	5.0m§	25n§						12M∅	94	7.0	5M	A174g	TO99		
18	OPA104CM	20		10u§	500u§							1.0M∅	106	2.2	28	A477	TO99		
19	OPA104BM	20		15u§	500u§							1.0M∅	106	2.2	28	A477	TO99		
20	3554CM	20		25u§	1.0m§	1.0m§						1.0G∅	100	1.0m	5C		TO3		
21	OPA104AM	20		25u§	1.0m§	1.0m§						1.0M∅	106	2.2	28	A477	TO99		
22	OPA12HT	20		30u§	10m§	250n§						20M∅	77	120	5M	A174g	TO99		
23	# TAA862	20	30m	6.0m	10m§	300n	1.0u	16	200k†	18	2.0k∅		85	9.0 †	70	5C	A125	CN71	
24	# TAA861	20	30m	10m§	300n§	1.0u§	16	200k†	18	2.0k∅			75	9.0 †	60	07	A125	CN71	
25	# TAA861A	20	30m	10m§	300n§	1.0u§	16	200k†	18	2.0k∅			75	9.0 †	60	07	A125A	DL6b	
26	# TAA861W	20	30m	10m§	300n§	1.0u§	16	200k†	18	2.0k∅			75	9.0 †	60	07	A125B	FP55	
27	# TAA865	20	30m	10m§	300n§	1.0u§	16	200k†	18	2.0k∅			75	9.0 †	60	28	A125	CN71	
28	# TAA865A	20	30m	10m§	300n§	1.0u§	16	200k†	18	2.0k∅			75	9.0 †	60	28	A125A	DL6b	
29	# TAA865W	20	30m	10m§	300n§	1.0u§	16	200k†	18	2.0k∅			75	9.0 †	60	28	A125B	FP55	
30	# LS045T	20 †	30m	15m	750n				2.0M				83	30	Δ	28	A373	TO99	
31	# LS8045M	20 †	30m	15m	750n				2.0M				83	30	Δ	28	A373	MD8a	
32	ICL7605CJN	20	50m	15u	5.0	1.5n	11	1k	9.8	10k∅	10	10	90	94	07	A484	DL18d		
33	ICL7605IUN	20	50m	15u	5.0	1.5n	11	1k	9.8	10k∅	10	10	90	94	28	A484	DL18d		
34	ICL7605MUN	20	50m	15u	5.0	1.5n	11	1k	9.8	10k∅	10	10	90	94	5C	A484	DL18d		
35	SFC2861C	20	70m†	6.0u†	11m§	330n§	1.5u§	18 †	200k†	18	2.0k∅		90 †	3.0 †	80	07	A125A	CN44	
36	SFC2861DC	20	70m†	6.0u†	11m§	330n§	1.5u§	18 †	200k†	18	2.0k∅		90 †	3.0 †	80	07	A125A	DL6a	
37	SFC2861DT	20	70m†	6.0u†	11m§	330n§	1.5u§	18 †	200k†	18	2.0k∅		90 †	3.0 †	80	28	A125A	DL6a	
38	SFC2861M	20	70m†	6.0u†	11m§	330n§	1.5u§	18	200k†	18	2.0k∅		90 †	3.0 †	80	5C	A125A	CN44	
39	SFC2861PM	20	70m†	6.0u†	11m§	330n§	1.5u§	18	200k†	18	2.0k∅		90 †	3.0 †	80	5C	A125A	TO91	
40	SFC2861T	20	70m†	6.0u†	11m§	330n§	1.5u§	19 †	200k†	18	2.0k∅		90 †	3.0 †	80	28	A125A	CN44	
41	MP5501CJ	20 *	90mΔ	5.0m§	2.0n§	100n§	12 *	12	5.0k∅	25 Δ	18 †	250k	25 Δ	18 †	80	07	A174	TO99	
42	MP5501CP	20 *	90mΔ	5.0m§	2.0n§	100n§	12 *	12	5.0k∅	25 Δ	18 †	250k	25 Δ	18 †	80	07	A291A	DL8be	
43	MP5501CY	20 *	90mΔ	5.0m§	2.0n§	100n§	12 *	12	5.0k∅	25 Δ	18 †	250k	25 Δ	18 †	80	07	A173	DL14cx	
44	MP5501GJ	20 *	90mΔ	5.0m§	2.0n§	100n§	12 *	12	5.0k∅	25 Δ	18 †	250k	25 Δ	18 †	80	5C	A174	TO99	
45	MA206	20	140m	16u	10m	300n	3.0u	17 §	16	800m			175k∅	100	12	90	57	A468	
46	# CTS108AGB	20 *	500mΩ	1.0m	400p	3.0n	12 *	26	10k∅				25 Δ	0.1	96	5C	A420B	TO5	
47	# LM118J%	20 *	500mΩ	4.0m	100n	500n	12 *	24	2.0k∅	15M†	50 Δ	50	50 Δ	50	80	5C	A354	DL8aq	
48	# LM218J	20 *	500mΩ	4.0m	100n	500n	12 *	24	2.0k∅	15M†	50 Δ	50	50 Δ	50	80	28	A354	DL8aq	
49	CTS108AH/B	20	500mΩ	5.0u	1.0m	40n	3.0n	13	20				25 Δ	10	96	5C	A489	TO5	
50	# SU536H	20 *	500mΩ	20u†§	30m	5.0p†	3.0n	10 *	20	2.0k∅	100k†	20M§	50 §	6.0 †	70	58	A373b	CN1g	
51	MA113	20	600mΔ	100m	30p				100M	4.7			1.0m	17			A553		
52	# TBA222B	22 *		5.5m	400n	1.2u	24	300k∅	28 †	10k∅			88	0.5 †	80	5C	A470	DL8i	
53	MP5502AJ	22 *	60mΔ	500u§	2.0n§	30n§	13 **	3.8M	12	2.0k∅	800k	100 Δ	25	85	5C	A174A	TO99		
54	MP5502AP	22 *	60mΔ	500u§	2.0n§	30n§	13 **	3.8M	12	2.0k∅	800k	100 Δ	25	85	5C	A261B	DL8be		
55	MP5502AY	22 *	60mΔ	500u§	2.0n§	30n§	13 **	3.8M	12	2.0k∅	800k	100 Δ	25	85	5C	A173C	DL14cx		
56	MP5502EJ	22 *	60mΔ	500u§	2.0n§	30n§	13 **	3.8M	12	2.0k∅	800k	100 Δ	25	85	07	A174A	TO99		
57	MP5502EP	22 *	60mΔ	500u§	2.0n§	30n§	13 **	3.8M	12	2.0k∅	800k	100 Δ	25	85	07	A261B	DL8be		
58	MP5502EY	22 *	60mΔ	500u§	2.0n§	30n§	13 **	3.8M	12	2.0k∅	800k	100 Δ	25	85	07	A173C	DL14cx		
59	MP5501AJ	22 *	60mΔ	0.7m§	2.0n§	30n§	12 *	12	5.0k∅	250k	50 Δ	18 †	90	5C	A174	TO99			
60	MP5501AY	22 *	60mΔ	0.7m§	2.0n§	30n§	12 *	12	5.0k∅	250k	50 Δ	18 †	90	5C	A173	DL14cx			
61	MP5501HJ	22 *	60mΔ	0.7m§	2.0n§	30n§	12 *	12	5.0k∅	250k	50 Δ	18 †	90	07	A174	TO99			
62	MP5501HP	22 *	60mΔ	0.7m§	2.0n§	30n§	12 *	12	5.0k∅	250k	50 Δ	18 †	90	07	A291A	DL8be			
63	MP5501HY	22 *	60mΔ	0.7m§	2.0n§	30n§	12 *	12	5.0k∅	250k	50 Δ	18 †	90	07	A173	DL14cx			
64	uA741CD	22 *	85m	6.0m	200n	500n		2.0M	24	10k∅	1.0M∅	20 §	50	70	07	A241	DL14bn		
65	MP5501EJ	22 *	90mΔ	2.0m§	5.0n§	50n§	12 *	12	5.0k∅	250k	50 Δ	18 †	80	07	A174	TO99			
66	MP5501EP	22 *	90mΔ	2.0m§	5.0n§	50n§	12 *	12	5.0k∅	250k	50 Δ	18 †	80	07	A291A	DL8be			
67	MP5501EY	22 *	90mΔ	2.0m§	5.0n§	50n§	12 *	12	5.0k∅	250k	50 Δ	18 †	80	07	A173	DL14cx			
68	MP5501FJ	22 *	90mΔ	2.0m§	5.0n§	50n§	12 *	12	5.0k∅	250k	50 Δ	18 †	80	5C	A174	TO99			
69	MP5501FY	22 *	90mΔ	2.0m§	5.0n§	50n§	12 *	12	5.0k∅	250k	50 Δ	18 †	80	5C	A173	DL14cx			
70	MP5502CJ	22 *	90mΔ	2.0m§	5.0n§	50n§	13 **	2.3M	12	2.0k∅	800k	50 Δ	25	80	07	A174A	TO99		
71	MP5502CP	22 *	90mΔ	2.0m§	5.0n§	50n§	13 **	2.3M	12	2.0k∅	800k	50 Δ	25	80	07	A261B	DL8be		
72	MP5502CY	22 *	90mΔ	2.0m§	5.0n§	50n§	13 **	2.3M	12	2.0k∅	800k	50 Δ	25	80	07	A173C	DL14cx		
73	MP5502J	22 *	90mΔ	2.0m§	5.0n§	50n§	13 **	2.3M	12	2.0k∅	800k	50 Δ	25	80	5C	A174A	TO99		
74	MP5502P	22 *	90mΔ	2.0m§	5.0n§	50n§	13 **	2.3M	12	2.0k∅	800k	50 Δ	25	80	5C	A261B	DL8be		
75	MP5502Y	22 *	90mΔ	2.0m§	5.0n§	50n§	13 **	2.3M	12	2.0k∅	800k	50 Δ	25	80	5C	A173C	DL14cx		
76	MP5501GY	22 *	90mΔ	5.0m§	2.0n§	100n§	12 *	0	12	5.0k∅	250k	25 Δ	18 †	80	5C	A173	DL14cx		
77	MP5502BJ	22 *	90mΔ	5.0m§	2.0n§	100n§	13 **	1.0M	12	2.0k∅	800k	50 Δ	25	70	5C	A174A	TO99		
78	MP5502BP	22 *	90mΔ	5.0m§	2.0n§	100n§	13 **	1.0M	12	2.0k∅	800k	50 Δ	25	70	5C	A261B	DL8be		
79	MP5502BY	22 *	90mΔ	5.0m§	2.0n§	100n§	13 **	1.0M	12	2.0k									

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS	INPUT CHARACTERISTICS								MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C			T O E O D P E	C K T.	O U T - L I N E Δ = M O
			OVER OPERATING		TEMP. RANGE		MIN. @ 25°C		CHAR. @ 25°C		3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)				
			1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	3 | DRIFT (V/°C)	4 | OFFSET (V)	MAX VOLTAGE (V)	MAX CURRENT (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)					P-P VOLT. (ΔV)				P-P CUR. (ΔA)
1	MP5505CP	22 * 150mΔ	1.3mS	6.0nS	7.0nS	13 *	8.0M	12	10KΩ	120 Δ	17 †	100	07	A261b	DL8be			
2	MP5505CY	22 * 150mΔ	1.3mS	6.0nS	7.0nS	13 *	8.0M	12	10KΩ	120 Δ	17 †	100	07	A542	DL14cx			
3	MP5509AD	22 * 180mΔ	.50mS	20nS	300nS	12 *	20M	11	2.0KΩ	1.5M	100 Δ	70	100	5C	A396e			
4	MP5509AP	22 * 180mΔ	.50mS	20nS	300nS	12 *	20M	11	2.0KΩ	1.5M	100 Δ	70	100	5C	A396e			
5	MP5509ED	22 * 180mΔ	.50mS	20nS	300nS	13 **	20M	11	2.0KΩ	1.5M	100 Δ	70	100	07	A396e			
6	MP5509EP	22 * 180mΔ	.50mS	20nS	300nS	13 **	20M	11	2.0KΩ	1.5M	100 Δ	70	100	07	A396e			
7	MP5509EP	22 * 180mΔ	.50mS	20nS	300nS	13 **	20M	11	2.0KΩ	1.5M	100 Δ	70	100	07	A396e			
8	MP5511AD	22 * 180mΔ	.50mS	20nS	300nS	12 *	20M	11	2.0KΩ	1.5M	100 Δ	70	100	5C	A308			
9	MP5511AP	22 * 180mΔ	.50mS	20nS	300nS	12 *	20M	11	2.0KΩ	1.5M	100 Δ	70	100	5C	A308			
10	MP5511ED	22 * 180mΔ	.50mS	20nS	300nS	13 **	20M	11	2.0KΩ	1.5M	100 Δ	70	100	07	A308			
11	MP5511EP	22 * 180mΔ	.50mS	20nS	300nS	13 **	20M	11	2.0KΩ	1.5M	100 Δ	70	100	07	A308			
12	MP5509BD	22 * 180mΔ	2.5mS	50nS	500nS	12 *	20M	11	2.0KΩ	1.5M	100 Δ	70	100	5C	A396e			
13	MP5509BP	22 * 180mΔ	2.5mS	50nS	500nS	12 *	20M	11	2.0KΩ	1.5M	100 Δ	70	100	5C	A396e			
14	MP5509FD	22 * 180mΔ	2.5mS	50nS	500nS	13 **	20M	11	2.0KΩ	1.5M	100 Δ	70	100	07	A396e			
15	MP5509FP	22 * 180mΔ	2.5mS	50nS	500nS	13 **	20M	11	2.0KΩ	1.5M	100 Δ	70	100	07	A396e			
16	MP5511BD	22 * 180mΔ	2.5mS	50nS	500nS	12 *	20M	11	2.0KΩ	1.5M	100 Δ	70	100	5C	A308			
17	MP5511BP	22 * 180mΔ	2.5mS	50nS	500nS	12 *	20M	11	2.0KΩ	1.5M	100 Δ	70	100	5C	A308			
18	MP5511FD	22 * 180mΔ	2.5mS	50nS	500nS	13 **	20M	11	2.0KΩ	1.5M	100 Δ	70	100	07	A308			
19	MP5511FP	22 * 180mΔ	2.5mS	50nS	500nS	13 **	20M	11	2.0KΩ	1.5M	100 Δ	70	100	07	A308			
20	MP4136P	22 * 340m	5.0mS	200nS	500nS	0.3M	12	10KΩ	3.0MΩ†	50kS	70	5A	5A	A396e	DL14cu			
21	MP4136Y	22 * 340m	5.0mS	200nS	500nS	0.3M	12	10KΩ	3.0MΩ†	50kS	70	5A	5A	A396e	DL14cv			
22	CTS101AGB	22 * 500mΔ	3.0m	20n	100n	20	24	2.0KΩ	20	25 Δ	0.2	80	5C	A419c	TO5			
23	CTS101AH/B	22 * 500mΔ	3.0m	20n	100n	22	24	2.0KΩ	24	25 Δ	0.2	80	5C	A489	TO5			
24	MP5527AJ(M)	22 * 500mΔ	600nS	25uS	35nS	40nS	22	1.5M	24	2.0KΩ	5.0MΔ	1.0KΔ	1.7	114	5C	A174a	TO99	
25	MP5527AZ(M)	22 * 500mΔ	600nS	25uS	35nS	40nS	22	1.5M	24	2.0KΩ	5.0MΔ	1.0KΔ	1.7	114	5C	A420a	DL8be	
26	MP5527EJ(M)	22 * 500mΔ	600nS	25uS	35nS	40nS	22	1.5M	24	2.0KΩ	5.0MΔ	1.0KΔ	1.7	114	28	A174a	TO99	
27	MP5527EZ(M)	22 * 500mΔ	600nS	25uS	35nS	40nS	22	1.5M	24	2.0KΩ	5.0MΔ	1.0KΔ	1.7	114	28	A420a	DL8be	
28	MP5537AJ(M)	22 * 500mΔ	600nS	25uS	35nS	40nS	22	1.5M	24	2.0KΩ	45MΔ	1.0KΔ	1.1	114	5C	A174a	TO99	
29	MP5537AZ(M)	22 * 500mΔ	600nS	25uS	35nS	40nS	22	1.5M	24	2.0KΩ	45MΔ	1.0KΔ	1.1	114	5C	A420a	DL8be	
30	MP5537EJ(M)	22 * 500mΔ	600nS	25uS	35nS	40nS	22	1.5M	24	2.0KΩ	45MΔ	1.0KΔ	1.1	114	28	A174a	TO99	
31	MP5537EZ(M)	22 * 500mΔ	600nS	25uS	35nS	40nS	22	1.5M	24	2.0KΩ	45MΔ	1.0KΔ	1.1	114	28	A420a	DL8be	
32	MP5527BJ(M)	22 * 500mΔ	1.3uS	60uS	50nS	55nS	22	1.2M	24	2.0KΩ	5.0MΔ	1.0KΔ	1.7	106	5C	A174a	TO99	
33	MP5527BZ(M)	22 * 500mΔ	1.3uS	60uS	50nS	55nS	22	1.2M	24	2.0KΩ	5.0MΔ	1.0KΔ	1.7	106	5C	A420a	DL8be	
34	MP5527FJ(M)	22 * 500mΔ	1.3uS	60uS	50nS	55nS	22	1.2M	24	2.0KΩ	5.0MΔ	1.0KΔ	1.7	106	28	A174a	TO99	
35	MP5527FZ(M)	22 * 500mΔ	1.3uS	60uS	50nS	55nS	22	1.2M	24	2.0KΩ	5.0MΔ	1.0KΔ	1.7	106	28	A420a	DL8be	
36	MP5537BJ(M)	22 * 500mΔ	1.3uS	60uS	50nS	55nS	22	1.2M	24	2.0KΩ	45MΔ	1.0KΔ	1.1	106	5C	A174a	TO99	
37	MP5537BZ(M)	22 * 500mΔ	1.3uS	60uS	50nS	55nS	22	1.2M	24	2.0KΩ	45MΔ	1.0KΔ	1.1	106	5C	A420a	DL8be	
38	MP5537FJ(M)	22 * 500mΔ	1.3uS	60uS	50nS	55nS	22	1.2M	24	2.0KΩ	45MΔ	1.0KΔ	1.1	106	28	A174a	TO99	
39	MP5537FZ(M)	22 * 500mΔ	1.3uS	60uS	50nS	55nS	22	1.2M	24	2.0KΩ	45MΔ	1.0KΔ	1.1	106	28	A420a	DL8be	
40	MP5527CJ(M)	22 * 500mΔ	1.8uS	100uS	75nS	80nS	22	800K	24	2.0KΩ	5.0MΔ	700 Δ	1.7	100	5C	A174a	TO99	
41	MP5527CZ(M)	22 * 500mΔ	1.8uS	100uS	75nS	80nS	22	800K	24	2.0KΩ	5.0MΔ	700 Δ	1.7	100	5C	A420a	DL8be	
42	MP5527GJ(M)	22 * 500mΔ	1.8uS	100uS	75nS	80nS	22	800K	24	2.0KΩ	5.0MΔ	700 Δ	1.7	100	28	A174a	TO99	
43	MP5527GZ(M)	22 * 500mΔ	1.8uS	100uS	75nS	80nS	22	800K	24	2.0KΩ	5.0MΔ	700 Δ	1.7	100	28	A420a	DL8be	
44	MP5537CJ(M)	22 * 500mΔ	1.8uS	100uS	75nS	80nS	22	800K	24	2.0KΩ	45MΔ	700 Δ	1.1	100	5C	A174a	TO99	
45	MP5537CZ(M)	22 * 500mΔ	1.8uS	100uS	75nS	80nS	22	800K	24	2.0KΩ	45MΔ	700 Δ	1.1	100	5C	A420a	DL8be	
46	MP5537GJ(M)	22 * 500mΔ	1.8uS	100uS	75nS	80nS	22	800K	24	2.0KΩ	45MΔ	700 Δ	1.1	100	28	A174a	TO99	
47	MP5537GZ(M)	22 * 500mΔ	1.8uS	100uS	75nS	80nS	22	800K	24	2.0KΩ	45MΔ	700 Δ	1.1	100	28	A420a	DL8be	
48	MP5510AJ	22 * 500mΔ	2.0uS	500uS	2.8nS	3.0nS	13 *	20M	24	2.0KΩ	600KΔ	200 Δ	17 †	110	5C	A174a	TO99	
49	MP5510AP	22 * 500mΔ	2.0uS	500uS	2.8nS	3.0nS	13 *	20M	24	2.0KΩ	600KΔ	200 Δ	17 †	110	5C	A261b	DL8be	
50	MP5510BJ	22 * 500mΔ	2.0uS	500uS	2.8nS	3.0nS	13 *	20M	24	2.0KΩ	600KΔ	200 Δ	17 †	110	5C	A174a	TO99	
51	MP5510BP	22 * 500mΔ	2.0uS	500uS	2.8nS	3.0nS	13 *	20M	24	2.0KΩ	600KΔ	200 Δ	17 †	110	5C	A261b	DL8be	
52	MP5510EP	22 * 500mΔ	2.0uS	500uS	3.8nS	4.0nS	13 *	15M	24	2.0KΩ	600KΔ	200 Δ	17 †	106	07	A174a	TO99	
53	MP5510EP	22 * 500mΔ	2.0uS	500uS	3.8nS	4.0nS	13 *	15M	24	2.0KΩ	600KΔ	200 Δ	17 †	106	07	A261b	DL8be	
54	MP5510CJ	22 * 500mΔ	4.5uS	1.3mS	6.0nS	7.0nS	13 *	8.0M	24	2.0KΩ	600KΔ	120 Δ	17 †	100	07	A174a	TO99	
55	MP5510CP	22 * 500mΔ	4.5uS	1.3mS	6.0nS	7.0nS	13 *	8.0M	24	2.0KΩ	600KΔ	120 Δ	17 †	100	07	A261b	DL8be	
56	LM101AJ%	22 * 500mΔ	15u	2.0mS	10n	75nS	15 *	1.5MΔ	20	2.0KΩ	25 Δ	10	80	5C	A419a	DL8d		
57	LM201AJ%	22 * 500mΔ	15u	2.0mS	10n	75nS	15 *	1.5MΔ	20	2.0KΩ	25 Δ	10	80	28	A419a	DL8d		
58	LM13600AD	22 * 570m	2.0m	60u	5.0u	24	24	10k	24	350u	2.0M†	50 †	80	07	A551			
59	LM13600AN%	22 * 570mΔ	2.0m	600nS	7.0u	12 *	24	10kΔ	24	350u	2.0M†	50 †	80	07	A487	DL16aj		
60	NE5517AD	22 * 570m	2.0m	60u	5.0u	24	24	10k	24	350u	2.0M†	50 †	80	07	A551			
61	NE5517AN	22 * 570m	2.0m	60u	5.0u	24	24	10k	24	350u	2.0M†	50 †	80	07	A551	DL14ao		
62	LM13600AJ	22 * 600mΔ	2.0m	600nS	7.0u	12 *	24	10kΔ	24	350u	2.0M†	50 †	80	5C	A487	DL16k		
63	TDA1028	23 * 900mΔ	10m	200n	950n	20	24	10k	24	350u	2.0M†	50 †	80	5C	A571	DL16bw		
64	CA3094E	24 12m	7.0m	300n	700n	27	27	500k	27 †	2.0KΩ	4.0k†	86	500 †	70	5C	A207	DL8ad	
65	CA3094H	24 12m	7.0m	300n	700n	27	27	500k	27 †	2.0KΩ	4.0k†	86	500 †	70	5C	A207	CH2	
66	CA3094S	24 12m	7.0m	300n	700n	27	27	500k	27 †	2.0KΩ	4.0k†	86	500 †	70	5C	A207	CN46	
67	CA3094T	24 12m	7.0m	300n	700n	27	27	500k	27 †	2.0KΩ	4.0k†	86	500 †	70	5C	A207	Δ002AL	
68	LH0005AH	24 108m	4.0m	25n	125n	24	24	1.0M	10	100 Ø	30MØ	66	60	5C	A005	CN8a		
69	NH0005-883	24 108m	4.0m	10m	250n	24	24	1.0M	16	10KΩ	66	55	5C		CN36			
70	ZN424E	24 168m	5.0mS	6.0mS	500nS	1.2uS	20	200K†	20	3.0m†	10k	80	12 †	70	07	A380	DL14p	
71	ZN424P	24 168m	5.0mS	6.0mS	500nS	1.2uS	20	200K†	20	3.0m†	10k	80	12 †	70	07	A380	DL8aj	
72	ZN424T	24 168m	5.0mS	6.0mS	500nS	1.2uS	20	200K†	20	3.0m†	10k	80	12 †	70	07	A380	CN1n	
73	CA3015H	24 175m†	1.0mS	1.6uS	6.0uS	8.7 †	14 †	7.5K	14 †	19KΩ	200k	66	7.0 †	80	5C	A015	CH16b	
74	CA3015A	24 175m†	2.0mS	1.6uS	6.0uS	8.6 †	14 †	7.5K	14 †	19KΩ	200k	66	7.0 †	80	5C	A051	CN18	
75	CA3016A	24 175m†	2.0mS	1.6uS	6.0uS	8.6 †	14 †	7.5K	14									

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C				T E O M P E	C D	DRAWINGS	
		RATED SPECS		OVER OPERATING TEMP RANGE			MIN. @25°C			CHAR. @25°C		3dB BW	O.L. VOLT. GAIN	SLEW RATE	CMRR				
		1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	3 | MAX VOLTAGE (V/°C)	4 | JOFST (V)	5 | MAX CURRENT (A)	6 | BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)								
1#	TAA761S	30		6.0m	80n	1.0u	28	200k	14	250m		90	9.0	85	07	A125	TO78		
2#	TAA765GΔ	30		6.0m	300n	1.0u	28	200k†	20	†		81		65	28	A519	MD6c		
3#	TAA765S	30		6.0m	80n	1.0u	28	200k	14	250m		90	9.0	85	28	A125	DL6b		
4#	TBA221W	30		7.5m	300n	800n	24	300k	24	10kΩ		88	500m†	70	07	A042	FP42		
5#	TCA321GA	30		7.5m	300n		13 *	200k†	20			75		60	07	A524	MD6c		
6#	TCA321GG	30		7.5m	300n		13 *	200k†	20			75		60	07	A524	MD6c		
7#	TCA325GΔ	30		7.5m	300n		13 *	200k†	20			75		60	28	A524	MD6c		
8#	TCA325GG	30		7.5m	300n		13 *	200k†	20			75		60	28	A524	MD6c		
9#	TCA311GA	30		15m	25n		13 *	3.0M	20			75		60	07	A524	MD6c		
10#	TCA311GG	30		15m	25n		13 *	3M†	20			75		60	07	A524	MD6c		
11#	TCA315GG	30		15m	25n		13 *	3M†	20			75		60	28	A524	MD6c		
12#	TCA331GA	30		15m	25n		13 *	3.0M†	20			75		60	07	A524	MD6c		
13#	TCA331GG	30		15m	25n		13 *	3M†	20			75		60	07	A524	MD6c		
14#	TCA331K	30		15m	25n		13 *	3M†	20			75		60	07	A524	MT44		
15#	TCA335GA	30		15m	25n		13 *	3.0M†	20			75		60	28	A524	MD6c		
16#	TCA335GG	30		15m	25n		13 *	3M†	20			75		60	28	A524	MD6c		
17#	TBA221K	30		60m	200n		12 *	2M†	20			86		70	07	A042	MT43		
18#	TAA761GG	30	*	6 s	300 s		12 *	200 †	20 †			81		65	07	A519	MD6c		
19#	TAA761K	30	*	6 s	300 s		12 *	200k†	20 †			81		65	28	A519	MD6c		
20#	TAA765GG	30	*	6 s	300 s		12 *	200k†	20 †			81		65	28	A519	MD6c		
21#	OP21N	30		0.5u†	100u	4.0n	100n		14	†		1.0kΔ		100	6F		CH60		
22#	AD504MH	30		500n	500u	10n	80n	30	1.3M		10m	300k	120	120m†	110	07	TO99		
23#	OP21G	30		1.0u†	200u	5.0n	120n		14	†		500 Δ		90	6F		CH60		
24#	OP220N(A)	30		1.0u†	200u	2.0n	20n		28	†		1.0kΔ		94	6F		CH61		
25#	AD547LH	30		1.0u	250u	2.0p	25p	20	1.0T†	25M†	2.0kΩ	1.0MΩ	100	3.0 †	80	07	A156	TO99	
26#	OP12N	30		1.0u	0.3m	0.2n	2.0n		26	†		50 Δ		6.0	6F		CH56		
27#	OP20N	30		1.0u†	300u	1.5n	20n		28	†		1.0kΔ		100	6F		CH60		
28#	OP12G	30		1.0u	0.5m	0.4n	4.0n		13M†			30 Δ		8.0	6F		CH56		
29#	OP220G(A)	30		1.5u†	500u	3.5n	5.0n		28	†		800 Δ		96	6F		CH61		
30#	OP20G	30		1.5u†	600u	2.5n	25n		28	†		800 Δ		96	6F		CH60		
31#	OP12GR	30		1.5u	1.0m	0.5n	5.0n		10M†			40 Δ		60	6F		CH56		
32#	OP220GR(A)	30		1.5u†	1.0m	30n	40n		28	†		500 Δ		60	6F		CH61		
33#	OPA103DM	30		2.0u	250u	1.0p	1.0p	20	10T†	†	10m	1.0MΩ†	106	0.9	76	5C	A174m	TO99	
34#	AD547KH	30		2.0u	500u	2.0p	25p	20	1.0T†		2.0kΩ	1.0MΩ	100	3.0 †	80	07	A156	TO99	
35#	OP15N	30		2.0u†	0.5m	3.0p†	15p†		12	†		14M	100 Δ	17	86	6F		CH58	
36#	OP16N	30		2.0u†	0.5m	3.0p†	15p†		12	†		19M†	100 Δ	25 †	86	6F		CH58	
37#	OP17N	30		2.0u†	0.5m	3.0p†	15p†		12	†		11M†	100 Δ	70 †	86	6F		CH58	
38#	OP21GR	30		2.0u†	500u	6.0n	150n		14	†		500 Δ		84	6F		CH60		
39#	OP215N(A)	30		2.0u†	500u	3.0p†	15p†		12	†		14M	75 Δ	17 †	86	6F		CH61	
40#	OP20GR	30		2.5u†	1.0m	4.0n	30n		28	†		500 Δ		90	6F		CH60		
41#	OP215G(A)	30		3.0u†	2.0m	3.0p†	30n		12	†		13M	75 Δ	16 †	86	6F		CH61	
42#	OP15G	30		3.0u†	1.0m	3.0p†	15p†		12	†		13M	75 Δ	16	86	6F		CH58	
43#	OP16G	30		3.0u†	1.0m	3.0p†	15p†		12	†		18M†	75 Δ	24 †	86	6F		CH58	
44#	OP17G	30		3.0u†	1.0m	3.0p†	15p†		12	†		10M†	75 Δ	66 †	86	6F		CH58	
45#	OP15GR	30		4.0u†	3.0m	3.0p†	15p†		12	†		12M	50 Δ	15	82	6F		CH58	
46#	OP16GR	30		4.0u†	3.0m	3.0p†	15p†		12	†		17M†	50 Δ	23 †	82	6F		CH58	
47#	OP17GR	30		4.0u†	3.0m	3.0p†	15p†		12	†		9.0M†	50 Δ	62 †	82	6F		CH58	
48#	OP215GR(A)	30		4.0u†	6.0m	3.0p†	15p†		12	†		12M	50 Δ	15 †	82	6F		CH61	
49#	OPA103CM	30		5.0u	250u	1.0p	1.0p	20	10T†	†	10m	1.0MΩ†	106	0.9	76	5C	A174m	TO99	
50#	AD547SH#mil	30		5.0u	500u	2.0p	25p	20	1.0T†		2.0kΩ	1.0MΩ	100	3.0 †	80	5C	A156	TO99	
51#	AD547JH	30		5.0u	500u	2.0p	50p	20	1.0T†		2.0kΩ	1.0MΩ	100	3.0 †	76	07	A156	TO99	
52#	SFC2315DC	30		6.0u	10m	50n	1.0u		3.0M		24	90		84	07	A195	DL6a		
53#	TBB2331	30		6.0u	10m	50n	1.0u		3.0M		24	90		84	07		TO99		
54#	TBB2331B	30		6.0u	10m	50n	1.0u		3.0M		24	90		84	07		TO99		
55#	TBB4331A	30		6.0u	10m	50n	1.0u		3.0M		24	90		84	07		TO99		
56#	TBC2332	30		6.0u	10m	50n	1.0u		3.0M		24	90		84	5C		TO99		
57#	TBE2335	30		6.0u	10m	50n	1.0u		3.0M		24	90		84	27		TO99		
58#	TBE2335B	30		6.0u	10m	50n	1.0u		3.0M		24	90		84	07		TO99		
59#	TBE4335A	30		6.0u	10m	50n	1.0u		3.0M		24	90		84	27		TO99		
60#	AD506LH	30		10u	1.0m	5.0p		20	100G		10m	100k	97	3.0	80	07		TO99	
61#	SFC2315C	30		12u	15m	25n	50n	13	3.0M†		14	85 †		60	07	A195	CN†		
62#	OPA103BM	30		15u	500u	1.0p	1.0p	20	10T†	†	10m	1.0MΩ†	106	0.9	76	5C	A174m	TO99	
63#	AD507SH	30		20u	4.0m	15n		20	65M			100M	100	20	80	5C		TO99	
64#	OPA103AM	30		25u	500u	2.0p	20n	20	10T†	†	10m	1.0MΩ†	106	0.9	76	5C	A174m	TO99	
65#	uA307HC	30		30u	10m	70n	300n	24	500k		24	10kΩ	88		70	07	A342	CN1d	
66#	uA307TC	30		30u	10m	70n	300n	24	500k		24	10kΩ	88		70	07	A342	DL8af	
67#	RC4132NB	30	♦	1.1m	15u	4.0m	4.0n	20n	30	20M†	24	10kΩ	94	130m†	80	07		DL8ab	
68#	RM4132T	30	♦	1.1m	15u	4.0m	4.0n	20n	30	20M†	24	10kΩ	94	130m†	80	5C		TO99	
69#	RC4132T	30	♦	1.3m†	20u	6.0m	7.5n	35n	30	10M†	24	10kΩ	94	130m†	70	07		TO99	
70#	RM4132DE	30		1.8m	15u	3.0m	2.0n	10n	30	20M†	24	10kΩ	94	130m†	80	5C		DL8aa	
71#	OP20BJ	30		2.0m	2.0u	375u	2.5n	22n	30	28	25kΩ	100kΩ†	120		96	5C	A361a	TO99	
72#	OP20FJ	30		2.0m	2.0u	375u	2.5n	22n	30	28	25kΩ	100kΩ†	120		100	5C	A361a	TO99	
73#	OP20CJ	30		2.1m	5.0u	750u	3.5n	27n	30	28	25kΩ	100kΩ†	118		90	5C	A361a	TO99	
74#	OP20GJ	30		2.1m	5.0u	750u	3.5n	27n	30	28	25kΩ	100kΩ†	118		96	07	A361a	TO99	
75#	OP20GP	30		2.1m	5.0u	750u	3.5n	27n	30	28	25kΩ	100kΩ†	118		96	07	A361	DL8j	
76#	uPC153A†	30	♦	2.4m	5.0m	50n	100n	24	1.0M		20	40kΩ	86		28	A364	Δ002AK		
77#	uPC253A†	30	♦	2.4m	5.0m	50n	100n	24	1.0M		20	2.0kΩ	90		85 †	28	A366	Δ002AK	
78#	OP20HJ	30		2.4m	10u	1.2m	5.0n	35n	30	28	25kΩ	100kΩ†	114		90	07	A361a	TO99	
79#	OP20HP	30		2.4m	10u	1.2m	5.0n	35n	30	28	25kΩ	100kΩ†	114		90	07	A361	DL8j	
80#	1323	30		2.4m	30u†	5.0m	2.5n†	40n	22	200k		24	20m	106		80	07		TO99
81#	LM4250H	30		2.7m	6.0m	10n	50n	27			24	10kΩ	94		70	07	A123b	CN1d	
82#	LM4250F†	30		3.0m	6.0m	25n	50n	27			24	10kΩ	100		70	5C	A123b	FP37	
83#	LM4250J†	30		3.0m	6.0m	25n	50n	27			24	10kΩ	100		70	5C	A123b	DL8aq	
84#	LM4250CH	30		3.0m	7.5m	25n	80n	27			24	10kΩ	94		70	07	A123b	CN1d	
85#	LM4250CJ†	30		3.0m	7.5m														

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS								MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS	
		RATED SPECS		OVER OPERATING TEMP. RANGE				MIN. @25°C		P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	T O M D P E	CKT.	OUT-LINE Δ=MO	
		1) TOT. VOLT. (ΔV)	2) MAX IDLE P (W)	3) DRIFT (V/°C)	4) OFFSET (V)	5) MAX CURRENT (A)	6) BIAS (A)	7) CM RANGE (ΔV)	8) DIFF IMP. (Ω)										
1	TL066ACJG	30	7.5m	10u†	6.0m§	100p§	200p§				1.0MΩ†	72	3.5 †		07	A396f	DL8v		
2	TL066ACP	30	7.5m	10u†	6.0m§	100p§	200p§				1.0MΩ†	72	3.5 †		07	A396f	DL8p		
3	TL061ACJG	30	7.5m	10u†	7.5m	3.0n	7.0n	24	1.0T†	20	10kΩ	72	3.5 †	80	07	A396	DL8v		
4	TL061ACP	30	7.5m	10u†	7.5m	3.0n	7.0n	24	1.0T†	20	10kΩ	72	3.5 †	80	07	A396	DL8p		
5	TL066CJG	30	7.5m	10u†	15m§	200p§	400p§				1.0MΩ†	70	3.5 †		07	A396f	DL8v		
6	TL066CP	30	7.5m	10u†	15m§	200p§	400p§				1.0MΩ†	70	3.5 †		07	A396f	DL8p		
7	TL061CJG	30	7.5m	10u†	20m	5.0n	10n	20	1.0T†	20	10kΩ	69	3.5 †	70	07	A396	DL8v		
8	TL061CP	30	7.5m	10u†	20m	5.0n	10n	20	1.0T†	20	10kΩ	69	3.5 †	70	07	A396	DL8p		
9	MC1456P1	30	9m		14m	10n§	40n	22	3.0KΩ	22	2.0kΩ	96	2.5 †	70	07	A100	DL8ac		
10	MC1456U	30	9.0m		14m	10n§	40n	22	3.0KΩ	22	2.0kΩ	96	2.5 †	70	5C	A100	DL8s		
11	AML308	30	9.0m†		30u	10m	1.5n	10n	27	10M	26	10kΩ	88		80	07	A368	TO99	
12	AML308BD	30	9.0m†		30u	10m	1.5n	10n	27	10M	26	10kΩ	88		80	07	A368	DL14m	
13	SG308J	30	9.0m†		30u	10m	1.5n	10n	27	10M	26	10kΩ	88		80	07	A420	TO116	
14	SG308M	30	9.0m†		30u	10m	1.5n	10n	27	10M	26	10kΩ	88		80	07	A420	DL8h	
15	SG308T	30	9.0m†		30u	10m	1.5n	10n	27	10M	26	10kΩ	88		80	07	A420	TO99	
16	LM148J	30	10m		6.0m	75n	325n	24	800k	24	15m†	92	500m†	70	5C	A252	TO116		
17	TL044MJ	30	12m		6.0m	100n	250n	24	24	20	10kΩ	97	500m	60	5C	A252			
18	TL062AMJG*	30	12m	10u†	5.0m	20n	50n	24	1.0T†	20	10kΩ	72	3.5 †	80	5C	A396b	DL8v		
19	TL062IJG*	30	12m	10u†	9.0m	20n	24	24	1.0T†	20	10kΩ	72	3.5 †	80	28	A396b	DL8v		
20	TL062IP*	30	12m	10u†	9.0m	10n	20n	24	1.0T†	20	10kΩ	72	3.5 †	80	28	A396b	DL8p		
21	TL062MJG*	30	12m	10u†	9.0m	20n	50n	24	1.0T†	20	10kΩ	72	3.5 †	80	5C	A396b	DL8v		
22	LM248N	30	13m		7.5m	125n	500u	24	800k	24	15m†	88	500m†	70	28		DL14z		
23	TL044CJ	30	15m		7.5m	200n	400n	24	24	20	10kΩ	95	500m	60	07	A252			
24	TL044CN	30	15m		7.5m	200n	400n	24	24	20	10kΩ	95	500m	60	07	A252			
25	TL062BCJG*	30	15m	10u†	5.0m	3.0n	7.0n	24	1.0T†	20	10kΩ	72	3.5 †	80	07	A396b	DL8v		
26	TL062BCP*	30	15m	10u†	5.0m	3.0n	7.0n	24	1.0T†	20	10kΩ	69	3.5 †	70	07	A396b	DL8p		
27	TL062ACJG*	30	15m	10u†	7.5m	3.0n	7.0n	24	1.0T†	20	10kΩ	72	3.5 †	80	07	A396b	DL8v		
28	TL062ACP*	30	15m	10u†	7.5m	3.0n	7.0n	24	1.0T†	20	10kΩ	72	3.5 †	80	07	A396b	DL8p		
29	TL062CJG*	30	15m	10u†	20m	5.0n	10n	20	1.0T†	20	10kΩ	69	3.5 †	70	07	A396b	DL8v		
30	TL062CP*	30	15m	10u†	20m	5.0n	10n	20	1.0T†	20	10kΩ	69	3.5 †	70	07	A396b	DL8p		
31	OP08EJ	30	18m	2.5u	260u	300p	2.6n	27	26M	20	2.0kΩ	94	120m†	104	07	A174j	TO99		
32	OP12EJ	30	18m	2.5u	260u	300p	2.6n	27	26M	20	2.0kΩ	94	120m†	104	07	A174c	TO99		
33	OP08AJ	30	18m	2.5u	350u	400p	3.0n	27	26M	20	2.0kΩ	94	120m†	104	5C	A174j	TO99		
34	OP12AJ	30	18m	2.5u	350u	400p	3.0n	27	26M	20	2.0kΩ	94	120m†	104	5C	A174c	TO99		
35	OP12FJ	30	18m	3.5u	450u	600p	5.2n	27	13M	20	2.0kΩ	90	120m†	102	07	A174c	TO99		
36	OP12BJ	30	18m	3.5u	600u	400p	3.0n	27	26M	20	2.0kΩ	94	120m†	104	5C	A174c	TO99		
37	PM2108AQ*	30	18m	5.0u	1.0m	400p	3.0n	26	30M	26	10kΩ	98	120m†	96	5C	A420c	DL16ah		
38	PM2108Q*	30	18m	15u	1.0m	400p	3.0n	26	30M	26	10kΩ	94	120m†	85	5C	A420c	DL16ah		
39	LM308AH-1	30	24m	1.0u	540u	1.5n	10n	28	10M	26	10kΩ	98		96	07	A420b	CN1d		
40	LM308AH-2	30	24m	2.0u	590u	1.5n	10n	28	10M	26	10kΩ	98		96	07	A420b	CN1d		
41	AML308A	30	24m	5.0u	730u	1.5n	10n	27	10M	26	10kΩ	98		96	07	A368	TO99		
42	AML308AD	30	24m	5.0u	730u	1.5n	10n	27	10M	26	10kΩ	98		96	07	A368	DL14m		
43	LM308AD	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kΩ	98		96	07	A420	DL14cc		
44	LM308ADZ	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kΩ	98		96	07	A420a	DL8s		
45	LM308AH	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kΩ	98		96	07	A420b	CN1d		
46	LM308AJ	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kΩ	98		96	07	A420	DL14cd		
47	LM308AJZ	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kΩ	98		96	07	A420	DL14bk		
48	LM308AJ-8	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kΩ	98		96	07	A420a	DL8aq		
49	LM308AN	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kΩ	98		96	07	A420a	DL8ah		
50	PM308AJ	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kΩ	96		6F	A420	TO99			
51	SG308AF	30	24m	5.0u	730u	1.5n	10n	27	10M	26	10kΩ	97	3.0 †	96	07	A452	FP2v		
52	SG308AJ	30	24m	5.0u	730u	1.5n	10n	27	10M	26	10kΩ	97	3.0 †	96	07	A452	DL14bk		
53	SG308AM	30	24m	5.0u	730u	1.5n	10n	27	10M	26	10kΩ	98	100m†	96	07	A420	DL8h		
54	SG308AT	30	24m	5.0u	730u	1.5n	10n	27	10M	26	10kΩ	98	100m†	96	07	A420	TO99		
55	SG308AY	30	24m	5.0u	730u	1.5n	10n	27	10M	26	10kΩ	97	3.0 †	96	07	A452	DL8s		
56	uPC156A	30	24m	6.0u†	7.5m§	1.0n§	7.0n§	27	10M	26	10kΩ	88		80	28	A420	Δ002AK		
57	OP08GJ	30	24m	10u	1.4m	700p	6.5n	27	10M	20	2.0kΩ	800kΩ†	100 †	120m†	84	07	A174j	TO99	
58	OP08GP	30	24m	10u	1.4m	700p	6.5n	28	10M	24	2.0kΩ	800kΩ	92	120m	84	07	A291c	DL8j	
59	OP12GJ	30	24m	10u	1.4m	700p	6.5n	27	10M	20	2.0kΩ	800kΩ†	100 †	120m†	84	07	A174c	TO99	
60	OP12CJ	30	24m	10u	2.0m	1.0n	10n	26	10M	20	2.0kΩ	800kΩ†	100 †	120m†	84	5C	A174c	TO99	
61	OP08CJ	30	24m	10u	2.5m	1.0n	10n	26	10M	20	2.0kΩ	800kΩ†	100 †	120m†	84	5C	A174j	TO99	
62	TL064AMJ*	30	24m	10u†	5.0m	20n	50n	24	1.0T†	20	10kΩ	72	3.5 †	80	5C	A396d	DL14ah		
63	TL064IJ*	30	24m	10u†	9.0m	10n	20n	24	1.0T†	20	10kΩ	72	3.5 †	80	28	A396d	DL14ah		
64	TL064IN*	30	24m	10u†	9.0m	10n	20n	24	1.0T†	20	10kΩ	72	3.5 †	80	28	A396d	Δ001AA		
65	TL064MJ*	30	24m	10u†	9.0m	20n	50n	24	1.0T†	20	10kΩ	72	3.5 †	80	5C	A396d	DL14ah		
66	LM308DZ	30	24m	30u	1.0m	1.5n	10n	28	10M	26	10kΩ	88		80	07	A420a	DL8s		
67	LM308JZ	30	24m	30u	1.0m	1.5n	10n	28	10M	26	10kΩ	88		80	07	A420	DL14bk		
68	LM308D	30	24m	30u	10m	1.5n	10n	28	10M	26	10kΩ	88		80	07	A420	DL14cc		
69	LM308DE	30	24m	30u	10m	1.5n	10n	28	10M	26	10kΩ	88		80	07	A420	DL8aa		
70	LM308H	30	24m	30u	10m	1.5n	10n	28	10M	26	10kΩ	88		80	07	A420b	CN1d		
71	LM308J	30	24m	30u	10m	1.5n	10n	28	10M	26	10kΩ	88		80	07	A420	DL14cd		
72	LM308J-8	30	24m	30u	10m	1.5n	10n	28	10M	26	10kΩ	98		80	07	A420a	DL8aq		
73	LM308N	30	24m	30u	10m	1.5n	10n	28	10M	26	10kΩ	88		80	07	A420a	DL8ah		
74	LM312H	30	24m	30u	10m	1.5n	10n	28	10M	26	10kΩ	87		80	07	A206	CN1d		
75	PM308AP	30	24m	30u	10m	1.5n	10n	28	10M	26	10kΩ	98		80	07	A291c	DL8j		
76	PM308J	30	24m	30u	10m	1.5n	10n	28	40M	26	10kΩ	88		6F	A420	TO99			
77	SG308F	30	24m	30u	10m	1.5n	10n	27	10M	26	10kΩ	300kΩ†	88	3.0 †	80	07	A452	FP2v	
78	SG308Y	30	24m	30u	10m	1.5n	10n	27	10M	26	10kΩ	300kΩ†	88	3.0 †	80	07	A452	DL8s	
79	uA308HC	30	24m	30	10m	1.5n	10n	27	10M	26	10kΩ	88		80	07	A420	CN1d		
8																			

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS								MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS	
		RATED	SPECS	OVER OPERATING TEMP. RANGE				MIN. @25°C		P-P		3dB BW	O.L. VOLT. GAIN	SLEW RATE	CMRR	E O M D P E	C K T.	OUT-LINE Δ=MO	
		1] VOLT. (ΔV)	2] MAX IDLE P (W)	3] DRIFT (V/°C)	4] OFFSET (V)	5] OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	VOLT. (ΔV)	CUR. (ΔA)								
1#	TAA2762	30	45m	6.0u\$	6.0m\$	300n	1.0u\$	27	200k	28	2.0k	85			70	+	A402	CN1w	
2#	TAA2765	30	45m	6.0u\$	6.0m\$	300n	1.0u\$	27	200k	28	2.0k	80			65	28	A402	CN1w	
3#	TAA2765A	30	45m	6.0u\$	6.0m\$	300n	1.0u\$	27	200k	28	2.0k	80			65	28	A402a	DL8i	
4	AD542KH	30	45m	10u	1.0m\$	2.0p\$	25p\$	20	10G	20	2.0k	104	3.0	300m	80	07	A477	CN1D	
5	AD515KH	30	45m	15u	1.0m\$	150f		20	10T	20	2.0k	104	3.0	300m	80	07	A174B	TO99	
6	AD542SH#mii	30	45m	15u	1.0m\$	2.0p\$	25p\$	20	10G	20	2.0k	104	3.0	300m	80	07	A477	CN1D	
7	AD542JH	30	45m	20u	2.0m\$	5.0p\$	50p\$	20	10G	20	2.0k	104	3.0	300m	76	07	A477	CN1D	
8	AD515LH	30	45m	25u	1.0m\$	75f		20	10T	20	2.0k	88	300m	70	07	A174B	TO99		
9	AD515JH	30	45m	50u	3.0m\$	300f		20	10T	20	2.0k	86	300m	66	07	A174B	TO99		
10▼	MA340	30	51m	5.0u	300u	50p	150p	24	1.0T	27	36m	2.0M\$	100	10	90	07			
11▼	MA344CP(A)	30	51m	5.0u	2.0m	50p	200p	24	1.0T	27	36m	4.0M\$	100	10	90	07	A014a		
12	AD517K	30	54m	1.8u	75u	1.3n	3.5n	30	20M	20	10m	250k	500k	0.1	100	07		CH16p	
13	RC4131T	30	57m	20u	6.0m	30n	200n	30	3.0M	24	10k	94	2.0	70	07	A092	TO99		
14#	M51802P	30	60m		5.0m\$	200n\$	500n\$										A313	DL8am	
15	LM146J*	30	60m		6.0m	25n	100n	27	1.0M	24	10k	80	400m	80	5C	A398	DL16k		
16	LM747H883	30	60m		6.0m	500n	1.5u	24	300k	24	10k	94		70	5C	A042n	TO99		
17	OP01HJ	30	60m	8.0u	1.0m	4.0n	5.0n	24	24	25	5.0k	94	18	90	07	A174	TO99		
18	OP01HP	30	60m	8.0u	1.0m	4.0n	5.0n	26	24	25	2.0k	94	12	85	07	A200a	DL8i		
19	OP01J	30	60m	8.0u	1.0m	4.0n	5.0n	24	25	25	5.0k	94	18	90	5C	A174	TO99		
20	OP02AJ	30	60m	8.0u	1.0m	5.0n	55n	24	3.8M	24	2.0k	800k	100	250m	90	5C	A369c	TO99	
21	OP02EJ	30	60m	8.0u	1.0m	4.0n	50n	24	3.8M	24	2.0k	800k	100	250m	90	07	A369c	TO99	
22	OP04AK*	30	60m	8.0u	1.5m	5.0n	75n	24	24	24	2.0k	4.0k	100	500m	94	5C	A369	TO100	
23	OP04AY*	30	60m	8.0u	1.5m	5.0n	75n	24	24	24	2.0k	4.0k	100	500m	94	5C	A369a	DL14q	
24	OP04EK*	30	60m	8.0u	1.5m	4.0n	75n	24	24	24	2.0k	4.0k	100	500m	94	07	A369	TO100	
25	OP04EY*	30	60m	8.0u	1.5m	4.0n	75n	24	24	24	2.0k	4.0k	100	500m	94	07	A369a	DL14q	
26	OP14AJ*	30	60m	8.0u	1.5m	5.0n	100n	24	3.8M	24	2.0k	4.0k	100	700m	90	5C	A369b	TO99	
27	OP14EJ*	30	60m	8.0u	1.5m	4.0n	100n	24	3.8M	24	2.0k	4.0k	100	700m	90	07	A369b	TO99	
28	OP14EP*	30	60m	8.0u	1.5m	5.0n	60n	26	3.8M	24	2.0k	800k	100	250m	85	07	A457a	DL8i	
29	MC3558G	30	66m	6.0m	6.0m	200n	1.5u	28	300k	24	10k	94	9.0k	600m	70	5C	A292a	TO99	
30	MC3558U	30	66m	6.0m	6.0m	200n	1.5u	28	300k	24	10k	94	9.0k	600m	70	5C	A292a	DL8s	
31	AD517S#mil	30	66m	1.8u	75u	2.0n	10n	30	20M	20	10m	250k	500k	0.1	100	5C		CH16p	
32	AD517J	30	72m	3.0u	150u	1.5n	8.0n	30	15M	20	10m	250k	500k	0.1	94	07		CH16p	
33#	TAA761	30	75m		6.0m\$	300n\$	1.0u\$	27	200k	28	2.0k	81	9.0	65	07	A125	CN7i		
34#	TAA761A	30	75m		6.0m\$	300n\$	1.0u\$	27	200k	28	2.0k	81	9.0	65	07	A125a	DL6b		
35#	TAA761W	30	75m		6.0m\$	300n\$	1.0u\$	27	200k	28	2.0k	81	9.0	65	07	A125b	FP55		
36#	TAA762	30	75m		6.0m\$	300n\$	1.0u\$	27	200k	28	2.0k	85	9.0	70	5C	A125	CN7i		
37#	TAA765	30	75m		6.0m\$	300n\$	1.0u\$	27	200k	28	2.0k	81	9.0	65	28	A125	CN7i		
38#	TAA765A	30	75m		6.0m\$	300n\$	1.0u\$	27	200k	28	2.0k	81	9.0	65	28	A125a	DL6b		
39#	TAA765W	30	75m		6.0m\$	300n\$	1.0u\$	27	200k	28	2.0k	81	9.0	65	28	A125b	FP55		
40	LM246J*	30	75m		7.5m	100n	250n	27	1.0M	24	10k	500k	94	400m	70	28	A398	DL16k	
41	LM246N*	30	75m		7.5m	100n	250n	27	1.0M	24	10k	500k	94	400m	70	28	A398	DL16ai	
42	LM346J*	30	75m		7.5m	100n	250n	27	1.0M	24	10k	500k	94	400m	70	07	A398	DL16k	
43	LM346N*	30	75m		7.5m	100n	250n	27	1.0M	24	10k	500k	94	400m	70	07	A398	DL16ai	
44	3510CM	30	75m	500n	60u\$	15n\$		24	1.0M	20	20m	400k	120	500m	110	28	A391	CN1c	
45	3510BM	30	75m	1.0u	120u\$	25n\$		24	1.0M	20	20m	400k	120	500m	110	28	A391	CN1c	
46	3510SM	30	75m	1.0u	120u\$	25n\$		24	1.0M	20	20m	400k	120	500m	110	28	A391	CN1c	
47#	SFC2709A	30	75m	1.8u\$	.60m\$	10n\$	.10u\$	24	700k	28	20m	400k	120	500m	110	28	A003b	TO99
48	3510AM	30	75m	2.0u	150u\$	35n\$		24	1.0M	20	20m	400k	120	500m	110	28	A391	CN1c	
49#	SFC2709AE	30	75m	3.0u\$	1.0m\$	50n\$	200n\$	24	400k	28	20m	400k	120	500m	110	28	A003b	TO116	
50	LH0052H883	30	75m	5.0u	700u	100p	500p	24	1.0T	20	20m	1.0M	100	1.5	80	5C	A223	CN17g	
51#	TCA321	30	75m	6.0u	7.5m\$	300n\$	1.0u\$	26	200k	28	2.0k	75		60	07	A406	CN7i		
52#	TCA321A	30	75m	6.0u	7.5m\$	300n\$	1.0u\$	26	200k	28	2.0k	75		60	07	A406a	DL6b		
53#	TCA321W	30	75m	6.0u	7.5m\$	300n\$	1.0u\$	26	200k	28	2.0k	75		60	07	A406b	FP55		
54#	TCA322	30	75m	6.0u	7.5m	300n	1.0u	26	200k	28	2.0k	80		65	5C	A406	CN7i		
55#	TCA325	30	75m	6.0u	7.5m\$	300n\$	1.0u\$	26	200k	28	2.0k	75		60	07	A406	CN7i		
56#	TCA325A	30	75m	6.0u	7.5m\$	300n\$	1.0u\$	26	200k	28	2.0k	75		60	07	A406a	DL6b		
57#	TCA325W	30	75m	6.0u	7.5m\$	300n\$	1.0u\$	26	200k	28	2.0k	75		60	27	A406b	FP55		
58#	TCA311	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	07	A406	CN7i		
59#	TCA311A	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	07	A406a	DL6b		
60#	TCA311W	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	07	A406b	FP55		
61#	TCA312	30	75m	6.0u	20m	40n	80n	26	3.0M	28	2.0k	80		65	5C	A406	CN7i		
62#	TCA315	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	27	A406	CN7i		
63#	TCA315A	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	07	A406a	DL6b		
64#	TCA315W	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	27	A406b	FP55		
65#	TCA331	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	07	A406	CN7i		
66#	TCA331A	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	07	A406a	DL6b		
67#	TCA331W	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	07	A406b	FP55		
68#	TCA332	30	75m	6.0u	20m	40n	80n	26	3.0M	28	2.0k	80		65	5C	A406	CN7i		
69#	TCA335	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	27	A406	CN7i		
70#	TCA335A	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	07	A406a	DL6b		
71#	TCA335W	30	75m	6.0u	20m\$	25n\$	50n\$	26	3.0M	28	2.0k	75		60	27	A406b	FP55		
72	LH0022F	30	75m	10u	5.0m	200p	1.0n	24	1.0T	20	20m	1.0M	100	1.5	80	5C	A223	FP37	
73	TL071AMJG	30	75m	10u	5.0m	20n	50n	24	1.0T	24	10k	3.0M	94	13	80	5C	A396	DL8v	
74	TL071BCJG	30	75m	10u	5.0m	2.0n	7.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396	DL8v	
75	TL071BCP	30	75m	10u	5.0m	2.0n	7.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396	DL8p	
76	MC34001BG	30	75m	10u\$	7.0m	4.0n	8.0n	22	1.0T	20	2.0k	4.0M\$	94	13	80	07	A431	TO99	
77	MC34001BP	30	75m	10u\$	7.0m	4.0n	8.0n	22	1.0T	20	2.0k	4.0M\$	94	13	80	07	A431b	DL8ac	
78	MC34001BU	30	75m	10u\$	7.0m														

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C			DRAWINGS			
		1] TOT. VOLT. (ΔV)	2] MAX IDLE P (W)	OVER OPERATING		TEMP. RANGE		MIN. @25°C		P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	T E M P E	C O C K T.	D R A W I N G S
				3] DRIFT (V/°C)	4] OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)									
1	PM741CJ	30	84m	7.5m	300n	800n	24	300k	24	10kΩ	88	88	500m	70	++	A315	TO99	
2#	SFC2741C	30	84m	7.5m	300n	800n	24	300k	24	10kΩ	86	86	500m	70	07	A042k	TO99	
3#	SFC2741DC	30	84m	7.5m	300n	800n	24	300k	24	10kΩ	86	86	500m	70	07	A042k	DL8a	
4#	SFC2741EC	30	84m	7.5m	300n	800n	24	300k	24	10kΩ	86	86	500m	70	07	A042k	TO116	
5#	SFC2748C	30	84m	7.5m	300n	800n	24	300k	24	10kΩ	94	94	500m	70	07	A112	TO99	
6#	SFC2748DC	30	84m	7.5m	300n	800n	24	300k	24	10kΩ	94	94	500m	70	07	A112	DL8a	
7#	SFC2748M	30	84m	7.5m	300n	800n	24	300k	24	10kΩ	94	94	500m	70	5C	A112	TO99	
8#	SFC2748PM	30	84m	7.5m	300n	800n	24	300k	24	10kΩ	94	94	500m	70	5C	A112	TO91	
9	SG741CT	30	84m	7.5m	300n	800p	30 Δ	300k	20	2.0kΩ	86	86	500m	70	07	A042m	TO99	
10#	TDA0741D	30	84m	7.5m	300n	800n	24	300k	24	2.0kΩ	86	86	500m	70	28	A200a	MD8a	
11#	TBA222	30	84m	5.0μs	1.0mΔ	10n	100n	30 Δ	2.0MΩ	20	2.0kΩ	94	94	500m	70	5C	CN1w	TO99
12	AD741LH	30	84m	5.0μs	1.0mΔ	10n	100n	30 Δ	2.0MΩ	20	2.0kΩ	94	94	500m	90	07	A174	DL8m
13	AD741LN	30	84m	5.0μs	1.0mΔ	10n	100n	30 Δ	2.0MΩ	20	2.0kΩ	94	94	500m	90	07	A200a	DL8m
14#	TBA221D	30	84m	5.0μs	1.0mΔ	10n	100n	30 Δ	2.0MΩ	20	2.0kΩ	106	106	600m	90	28	A042k	MD8a
15	LM748CH	30	84m	6.0μs	6.0m	300n	300n	24	300k	24	10kΩ	94	94	500m	70	07	A419c	CN1d
16	LM748CJ	30	84m	6.0μs	6.0m	300n	300n	24	300k	24	10kΩ	94	94	500m	70	07	A419b	DL8aq
17	LM748CN	30	84m	6.0μs	6.0m	300n	300n	24	300k	24	10kΩ	94	94	500m	70	07	A419b	DL8ah
18	LM748H	30	84m	6.0μs	6.0m	500n	1.5u	24	300k	24	10kΩ	94	94	500m	70	5C	A419c	CN1d
19	NE535N*	30	84m	6.0μs	6.0m	80n	200n	24	1.0M	24	10kΩ	94	10	70	07	A390a	DL8ao	
20#	NE535T	30	84m	6.0μs	6.0m	80n	200n	24	1.0M	20	2.0kΩ	88	10	70	07	A390	CN1g	
21	TL087CJG	30	84m	10μs	500μs	100p	400p	20	1.0T	24	10kΩ	88	13	70	07	A396	DL8v	
22	TL087CP	30	84m	10μs	500μs	100p	400p	20	1.0T	24	10kΩ	88	13	70	07	A396	DL8p	
23	TL087MJG	30	84m	10μs	500μs	100p	200p	20	1.0T	24	10kΩ	88	13	70	5C	A396	DL8v	
24	TL088CJG	30	84m	10μs	3.0μs	100p	400p	20	1.0T	24	10kΩ	88	13	70	07	A396	DL8v	
25	TL088CP	30	84m	10μs	3.0μs	100p	400p	20	1.0T	24	10kΩ	88	13	70	07	A396	DL8p	
26	TL088MJG	30	84m	10μs	3.0μs	100p	200p	20	1.0T	24	10kΩ	88	13	70	5C	A396	DL8v	
27	LF351AH	30	84m	10μs	4.0m	2.0n	4.0n	22	1.0T	24	10kΩ	94	13	80	07	A361a	CN1d	
28	LF351AN	30	84m	10μs	4.0m	2.0n	4.0n	22	1.0T	24	10kΩ	94	13	80	07	A361	DL8ah	
29	uA771AHC	30	84m	10μs	4.0m	2.0n	4.0n	22	1.0T	24	10kΩ	94	13	80	07	A361a	TO99	
30	uA771ARC	30	84m	10μs	4.0m	2.0n	4.0n	22	1.0T	24	10kΩ	94	13	80	07	A361	DL8t	
31	uA771ATC	30	84m	10μs	4.0m	2.0n	4.0n	22	1.0T	24	10kΩ	94	13	80	07	A361	DL8ag	
32	TL081AMJG	30	84m	10μs	5.0m	3.0n	7.0n	24	1.0T	24	10kΩ	94	13	80	5C	A373c	DL8v	
33	TL081BCJG	30	84m	10μs	5.0m	3.0n	7.0n	24	1.0T	24	10kΩ	94	13	80	07	A373c	DL8v	
34	uA771AHM	30	84m	10μs	5.0m	2.0n	5.0n	22	1.0T	24	10kΩ	94	13	80	5C	A361a	TO99	
35	uA771ARM	30	84m	10μs	5.0m	2.0n	5.0n	22	1.0T	24	10kΩ	94	13	80	5C	A361	DL8t	
36	LF351BH	30	84m	10μs	7.0m	4.0n	8.0n	22	1.0T	24	10kΩ	94	13	80	07	A361a	CN1d	
37	LF351BN	30	84m	10μs	7.0m	4.0n	8.0n	22	1.0T	24	10kΩ	94	13	80	07	A361	DL8ah	
38	uA771BHC	30	84m	10μs	7.0m	2.0n	4.0n	22	1.0T	24	10kΩ	94	13	80	07	A361a	TO99	
39	uA771BRC	30	84m	10μs	7.0m	2.0n	4.0n	22	1.0T	24	10kΩ	94	13	80	07	A361	DL8t	
40	uA771BTC	30	84m	10μs	7.0m	2.0n	4.0n	22	1.0T	24	10kΩ	94	13	80	07	A361	DL8ag	
41	TL080ACJG	30	84m	10μs	7.5m	3.0n	7.0n	24	1.0T	24	10kΩ	94	13	80	07	A373a	DL8v	
42	TL081ACJG	30	84m	10μs	7.5m	1.0n	6.0n	24	1.0G	24	10kΩ	88	9.0	70	07	A361	DL8v	
43	TL081ACP	30	84m	10μs	7.5m	1.0n	6.0n	24	1.0G	24	10kΩ	88	9.0	70	07	A361	DL8p	
44	uA771BHM	30	84m	10μs	8.0m	2.0n	5.0n	22	1.0T	24	10kΩ	94	13	80	5C	A361a	TO99	
45	uA771BHM	30	84m	10μs	8.0m	2.0n	5.0n	22	1.0T	24	10kΩ	94	13	80	5C	A361	DL8t	
46	TL080JG	30	84m	10μs	9.0m	1.0n	2.0n	24	1.0T	24	10kΩ	94	13	80	28	A373a	DL8v	
47	TL080MJG	30	84m	10μs	9.0m	1.0n	2.0n	24	1.0T	24	10kΩ	94	13	80	5C	A373a	DL8v	
48	TL081JG	30	84m	10μs	9.0m	1.0n	2.0n	24	1.0T	24	10kΩ	94	13	80	28	A373c	DL8v	
49	TL081MJG	30	84m	10μs	9.0m	1.0n	2.0n	24	1.0T	24	10kΩ	94	13	80	5C	A373c	DL8v	
50	uA771IHC	30	84m	10μs	13m	4.0n	8.0n	22	1.0T	24	10kΩ	94	13	70	07	A361a	TO99	
51	uA771IRC	30	84m	10μs	13m	4.0n	8.0n	22	1.0T	24	10kΩ	94	13	70	07	A361	DL8t	
52	uA771ITC	30	84m	10μs	13m	4.0n	8.0n	22	1.0T	24	10kΩ	94	13	70	07	A361	DL8ag	
53	TL080CJG	30	84m	10μs	20m	5.0n	1.0n	20	1.0T	24	10kΩ	88	13	70	07	A373a	DL8v	
54	TL081CJG	30	84m	10μs	20m	1.0n	6.0n	20	1.0G	24	10kΩ	88	9.0	70	07	A361	DL8v	
55	TL081CP	30	84m	10μs	20m	1.0n	6.0n	20	1.0G	24	10kΩ	88	9.0	70	07	A361	DL8p	
56	uA771LHC	30	84m	10μs	20m	4.0n	8.0n	22	1.0T	24	10kΩ	94	13	70	07	A361a	TO99	
57	uA771LRC	30	84m	10μs	20m	4.0n	8.0n	22	1.0T	24	10kΩ	94	13	70	07	A361	DL8t	
58	uA771LTC	30	84m	10μs	20m	4.0n	8.0n	22	1.0T	24	10kΩ	94	13	70	07	A361	DL8ag	
59	AD741KH	30	84m	15μs	3.0mΔ	15n	120n	30 Δ	2.0MΩ	20	2.0kΩ	94	500m	90	07	A174	TO99	
60	AD741KN	30	84m	15μs	3.0mΔ	15n	120n	30 Δ	2.0MΩ	20	2.0kΩ	94	500m	90	07	A200a	DL8m	
61	SE535N	30	84m	15μs	3.0m	20n	100n	24	3.0M	24	10kΩ	96	10	70	5C	A390a	DL8ao	
62#	SE535T	30	84m	15μs	3.0m	20n	100n	24	3.0M	20	2.0kΩ	88	10	70	5C	A390	CN1g	
63	uA777MJG	30	84m	15μs	3.0m	10n	75n	24	2.0M	24	10kΩ	94	500m	80	5C	A186b	DL14ah	
64	uA777MLJG	30	84m	15μs	3.0m	10n	75n	24	2.0M	24	10kΩ	94	500m	80	5C	A186c	DL8v	
65	uA777MJ	30	84m	15μs	3.0m	10n	75n	24	2.0M	24	10kΩ	94	500m	80	5C	A186a	CN1k	
66	uA777MJ	30	84m	15μs	3.0m	10n	75n	24	2.0M	24	10kΩ	94	500m	80	5C	A186	A004AE	
67	AD741SH	30	84m	15μs	4.0mΔ	25n	250n	30 Δ	2.0MΩ	20	1.0kΩ	94	500m	80	5C	A174	TO99	
68	IC450A	30	85m	5.0m	200n	500n	30 Δ	1.0MΩ	24	10kΩ	94	800m	90	+	A375	CH39		
69	LT1747*	30	85m	5.0m	200n	500n	24	300k	24	10kΩ	94	500m	70	5C	A309	CH31		
70	AD741H	30	85m	6.0m	200n	500n	24	300k	20	2.0kΩ	93	500m	70	5C	A042k	TO99		
71	AMSSS747CK	30	85m	6.0m	200n	500n	24	1.0M	24	10kΩ	94	500m	70	5C	A160	TO100		
72	CA741S	30	85m	6.0mΔ	200n	500n	24	300k	20	2.0kΩ	96	500m	70	5C	A181	CN46		
73	CA741T	30	85m	6.0mΔ	200n	500n	24	300k	20	2.0kΩ	96	500m	70	5C	A181	A002AL		
74	CA748CH*	30	85m	6.0m	300n	1.5u	24	300k	24	10kΩ	94	500m	70	5C	A181b	CH0		
75	CA748S	30	85m	6.0mΔ	200n	500n	24	300k	20	2.0kΩ	96	500m	70	5C	A181	CN46		
76	CA748T	30	85m	6.0mΔ	200n	500n	24	300k	20	2.0kΩ	96	500m	70	5C	A181	A002AL		
77	CA1558S*	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500m	70	5C	A181a	TO99		
78	CA1558T*	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500m	70	5C	A181a	A002AL		

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS					MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS		
		1) TOT. VOLT. (ΔV)	2) MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MIN. @25°C		CHAR. @25°C		3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/US)	CMRR (dB)	E O M D P E	C K T.	OUT-LINE Δ=MO	
				3) DRIFT (V/°C)	4) OFFSET (V)	5) OFFSET (A)	6) BIAS (A)	CM RANGE (ΔV)	DIFF IMP (Ω)								P-P VOLT. (ΔV)	P-P CUR. (ΔA)
1	uA741HM	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A042k	CN1d	
2	uA741MJ	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A154	DL14ah	
3	uA741MJG	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A154	DL8v	
4	uA741ML	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A154	CN1k	
5	uA741MU	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A154	Δ004AA	
6	uA741N	30	85m	6.0m	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	5C	A154	DL8ao	
7	uA741N-14	30	85m	6.0m	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	5C	A154	DL14aw	
8	uA741T	30	85m	6.0m	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	5C	A154	TO99	
9	uA741V	30	85m	6.0m	500n	1.5u	24	300k	20	5.0m	94	500mf	70	5C	A112b	DL8k	
10	uA747DM	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A042n	DL14i	
11	uA747HM	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A042n	TO100	
12	uA748A	30	85m	6.0m	200n	500n	24	300k	20	5.0m	94	500mf	70	5C	A112b	TO116	
13	uA748DM	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A337	DL14br	
14	uA748F	30	85m	6.0m	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	5C	A042n	DL14bn	
15	uA748HM	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A337	CN1d	
16	uA748MJ	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A042n	DL14ah	
17	uA748MJG	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	DL8v	DL8v	
18	uA748ML	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	CN1k	CN1k	
19	uA748MU	30	85m	6.0m	200n§	500n§	24	300k	24	10kΩ	94	500mf	70	5C	Δ004AA	Δ004AA	
20	uA748N	30	85m	6.0m	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	5C	DL8ao	DL8ao	
21	uA748N-14	30	85m	6.0m	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	5C	DL14aw	DL14aw	
22	uA748T	30	85m	6.0m	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	5C	TO99	TO99	
23	uA748TC	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	94	500mf	70	5C	A337	DL8af	
24	uA748V	30	85m	6.0m	200n	500n	24	300k	20	5.0m	94	500mf	70	5C	A112b	DL8k	
25	uPC151C	30	85m	6.0m§	200n§	500n§	24	300k	24	10kΩ	88	500mf	70	27	A313	DL8h	
26	uPC741C	30	85m	6.0m§	200n§	500n§	24	300k	24	10kΩ	88	500mf	70	07	A313	DL8h	
27 #	ZLD741	30	85m	6.0m	500n	1.5u	24	300k	24	10kΩ	93	500mf	70	5C	A071	CN1j	
28	AD741CH	30	85m	7.5m	200n	500n	24	300k	20	2.0k	86	500mf	70	07	A042k	TO99	
29	AD741CN	30	85m	7.5m	200n	500n	24	300k	20	2.0k	86	500mf	70	07	A042k	DL8m	
30	CA741CE	30	85m	7.5mΔ	300n	800n	24	300k	20	2.0k	86	500mf	70	07	A181	DL8ad	
31	CA741CS	30	85m	7.5mΔ	300n	800n	24	300k	20	2.0k	86	500mf	70	07	A181	CN46	
32	CA741CT	30	85m	7.5mΔ	300n	800n	24	300k	20	2.0k	86	500mf	70	07	A181	Δ002AL	
33	CA747CH*	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	5C	A181c	CH16z	
34	CA748CE	30	85m	7.5mΔ	300n	800n	24	300k	20	2.0k	86	500mf	70	07	A181	DL8ad	
35	CA748CS	30	85m	7.5mΔ	300n	800n	24	300k	20	2.0k	86	500mf	70	07	A181	CN46	
36	CA748CT	30	85m	7.5mΔ	300n	800n	24	300k	20	2.0k	86	500mf	70	07	A181	Δ002AL	
37	CA1458E*	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A181a	DL8ad	
38	CA1458S*	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A181a	CN46	
39	CA1458T*	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A181a	Δ002AL	
40	LM747CH*	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A440	CN17j	
41	LM747CJ*	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A440	DL14cd	
42	LM747CN*	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A440	DL14ce	
43 #	MA741CJ	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A154	DL14ah	
44 #	MA741CJG	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A154	DL8v	
45 #	MA741CN	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A154	DL14x	
46 #	MA741CP	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	07	A154	DL8d	
47 #	MA748CJ	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	93	500mf	70	07	A154	DL14ah	
48 #	MA748CJG	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	93	500mf	70	07	A154	DL8v	
49 #	MA748CL	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	93	500mf	70	07	TO99	TO99	
50 #	MA748CN	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	93	500mf	70	07	DL14x	DL14x	
51 #	MA748CP	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	93	500mf	70	07	DL8d	DL8d	
52	MC1741CG	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014	CN1k	
53	MC1741CL	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014b	TO116	
54	MC1741CP1	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014a	DL8d	
55	MC1741CP2	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014b	DL14az	
56	MC1741CU	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014a	DL8s	
57	MC1741NCG	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014	TO99	
58	MC1741NCL	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014b	TO116	
59	MC1741NCP1	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014a	DL8ac	
60	MC1741NCP2	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014b	DL14az	
61	MC1741NCU	30	85m	7.5m	300n	800n	24	2.0m†	24	10kΩ	86	500mf	70	07	A014a	DL8s	
62	MC1741SCG	30	85m	7.5m	300n	500n§	24	300k	24	20m	150k	86	70	07	A259	CN1p	
63	MC1741SCP1	30	85m	7.5m	300n	500n§	24	300k	24	20m	150k	86	70	07	A014a	DL8ac	
64	MC1747CG*	30	85m	7.5m	500n	800n	24	24	10kΩ	800kΩ	88	500mf	70	07	A181c	TO100	
65	MC1747CL*	30	85m	7.5m	500n	800n	24	24	10kΩ	800kΩ	88	500mf	70	07	A181c	TO116	
66	MC1747CP2*	30	85m	7.5m	500n	800n	24	24	10kΩ	800kΩ	88	500mf	70	07	A181c	DL14ba	
67	MC1748CG	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	10	86	500mf	70	07	A148	TO99
68	MC1748CP1	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	10	86	800mf	70	07	A148	DL8ac
69	MC1748CU	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	10	86	800mf	70	07	A148	DL8s
70	RC741DC	30	85m	7.5m	300n	800n	24	1.0m†	24	10kΩ	86	500mf	70	07	A042k	DL14av	
71	RC741T	30	85m	7.5m	300n	800n	24	1.0m†	24	10kΩ	86	500mf	70	07	TO99	TO99	
72	RV741NB	30	85m	7.5m	300n	800n	24	300k	20	2.0k	86	500mf	70	48	A200a	DL8ab	
73	SA741CF	30	85m	7.5m	500n	1.5u	24	300k	24	10kΩ	86	500mf	70	48	A154	DL14bn	
74	SA741CN	30	85m	7.5m	500n	1.5u	24	300k	24	10kΩ	86	500mf	70	48	A154	DL8ao	
75	SA741CN-14	30	85m	7.5m	500n	1.5u	24	300k	24	10kΩ	86	500mf	70	48	A154	DL14aw	
76	SA741CT	30	85m	7.5m	500n	1.5u	24	300k	24	10kΩ	86	500mf	70	48	A154	TO99	
77	SA748CF	30	85m	7.5m†	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	48	A154	DL14bn	
78	SA748CN	30	85m	7.5m†	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	48	A154	DL8ao	
79	SA748CN-14	30	85m	7.5m†	200n§	500n§	24	300k	24	10kΩ	96	500mf	70	48	A154	DL14aw	
80 #	SFC2741DT	30	85m	7.5m	300n	800n	24	300k	24	10kΩ	86	500mf	70	28	A042k	DL8a	
81 #	SFC2747C	30	85m	7.5m	300n	800n	24	300k	20	2.0k	88	500mf	70	07	TO100	TO100	
82 #	SFC2747EC	30	85m	7.5m	30												

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C			T C		DRAWINGS	
		RATED	SPECS	OVER OPERATING TEMP. RANGE			MIN.-@25°C		CHAR.@25°C		3dB BW	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	E M D P E	O C T.	OUT-LINE Δ=MO	
				1|TOT. VOLT. (ΔV)	2|MAX IDLE P (W)	3|DRIFT (V/°C)	4|OFFST (V)	5|OFFSET (A)	6|BIAS (A)	CM RANGE (ΔV)								DIFF IMP. (Ω)	P.P VOLT. (ΔV)	P.P CUR. (ΔA)
1	uA748CN	30	85m	7.5m	200n	500n	24	300k	24	10k	96	500m	70	07		DL8ao		
2	uA748CN-14	30	85m	7.5m	200n	500n	24	300k	24	10k	96	500m	70	07		DL14aw		
3	uA748CP	30	85m	7.5m	300n	800n	24	300k	24	10k	86	500m	70	07		DL8p		
4	uA748CT	30	85m	7.5m	300n	500n	24	300k	24	10k	96	500m	70	07		TO99		
5	uA748CU	30	85m	7.5m	300n	800n	24	300k	24	10k	86	500m	70	07		Δ004AA		
6	uA748CV	30	85m	7.5m	300n	800n	24	300k	24	2.0k	92	500m	70	07	A112b	DL8k		
7	uA748DC	30	85m	7.5m	300n	800n	24	300k	24	10k	86	500m	70	07	A337	DL14br		
8	uA748FM	30	85m	7.5m	300n	800n	24	300k	24	10k	86	500m	70	07	A337	FP2w		
9	uA748HC	30	85m	7.5m	300n	800n	24	300k	24	10k	86	500m	70	07	A337	CN1d		
10#	ZLD741C	30	85m	7.5m	300n	800n	24	300k	24	10k	86	500m	70	07	A071	CN1j		
11#	ZLD741CE	30	85m	7.5m	300n	800n	24	300k	24	10k	86	500m	70	07		TO116		
12#	MB3603C	30	85m	10m	220n	600n	24	300k	20	2.0k	84	100m	70	07	A347	DL14bh		
13#	MB3603M	30	85m	10m	220n	600n	24	300k	20	2.0k	84	100m	70	07	A347	DL14ay		
14#	MB3603C	30	85m	10m	220n	600n	24	300k	20	2.0k	84	100m	70	07	A347a	DL8w		
15#	MB3609M	30	85m	10m	220n	600n	24	300k	20	2.0k	84	100m	70	07	A347a	DL8ap		
16#	ICL8008MTY	30	85m	7.0u	6.0m	30n	50n	20	5.0M	24	10k	2.0M	86	500m	70	5C	A014	
17#	TBA221	30	85m	10u	5.0m	30n	80n	30	300k	20	2.0k	86	500m	70	07	A042k	CN1w	
18	ICL8008CPA	30	85m	15u	7.5m	30n	50n	24	5.0M	24	10k	2.0M	86	500m	70	07	A014	
19	ICL8008CTY	30	85m	15u	7.5m	30n	50n	24	5.0M	24	10k	2.0M	86	500m	70	07	A014	
20	LH0022CD	30	85m	15u	10m	200p	1.0n	24	1.0T	20	20m	1.0M	97	1.0	28	A223	DL14bv	
21	LH0022CF	30	85m	15u	10m	200p	1.0n	24	1.0T	20	20m	1.0M	97	1.0	28	A223	FP37	
22	uA777DC	30	85m	30u	5.0m	40n	20n	24	1.0M	24	10k	88	500m	70	07	A186b	DL14br	
23	uA777HC	30	85m	30u	5.0m	40n	20n	24	1.0M	24	10k	88	500m	70	07	A186a	CN1d	
24	uA777TC	30	85m	30u	5.0m	40n	20n	24	1.0M	24	10k	88	500m	70	07	A186b	DL8af	
25	uPC151A	30	90m	30u	6.0m	200n	500n	24	24	24	10k	86	500m	70	28	A313	Δ002AK	
26	OP02	30	90m	0.7m	5.0m	30n	30n	24	25	25	25	100 Δ	25	18 +	80	5C	CH54	
27	OP01N	30	90m	0.7m	5.0m	30n	30n	24	25	25	25	100 Δ	25	18 +	80	5C	CH54	
28	OP01G	30	90m	2.0m	5.0m	50n	50n	24	25	25	25	100 Δ	25	18 +	80	5C	CH54	
29	OP02G	30	90m	2.0m	5.0m	50n	50n	24	25	25	25	100 Δ	25	18 +	80	5C	CH54	
30	CA3078AH	30	90m	4.5m	5.5n	55n	55n	11	1.7M	26	10k	2.0k	92	40m	80	5C	A417	
31	CA3078AS	30	90m	4.5m	5.5n	55n	55n	11	1.7M	26	10k	2.0k	92	40m	80	5C	A417	
32	CA3078AT	30	90m	4.5m	5.5n	55n	55n	11	1.7M	26	10k	2.0k	92	40m	80	5C	A417	
33	OP01GR	30	90m	5.0m	20n	100n	100n	24	25	25	25	250k	25	18 +	80	07	Δ002AL	
34#	uA747C	30	90m	5.0m	20n	50n	50n	24	25	25	25	1.0M	25	18 +	80	07	CH54	
35	OP02GR	30	90m	6.0m	20n	50n	50n	24	25	25	25	1.0M	25	18 +	80	07	CN1j	
36#	TAA4761A	30	90m	6.0m	300n	1.0u	1.0u	27	200k	28	2.0k	80	70	27	27	A402b	DL14ab	
37#	TAA4765A	30	90m	6.0m	300n	1.0u	1.0u	27	200k	28	2.0k	80	70	27	27	A402b	DL14ab	
38#	uPC157C	30	90m	7.5m	50n	250n	250n	24	500k	24	10k	88	70	27	27	A234	DL8j	
39	uPC301AC	30	90m	7.5m	50n	250n	250n	24	500k	24	10k	88	70	27	27	A234	DL8h	
40	LM201V	30	90m	14m	14n	40n	40n	22	3.0M	22	2.0k	1.0M	96	2.5 +	70	07	A139	
41	MC1456F	30	90m	14m	10n	40n	40n	22	250M	22	2.0k	1.0M	97	2.5 +	70	07	A139	
42	MC1456G	30	90m	14m	10n	40n	40n	22	250M	22	2.0k	1.0M	96	2.5 +	70	07	A100	
43	MC1456L	30	90m	14m	10n	40n	40n	22	3.0M	22	2.0k	1.0M	96	2.5 +	70	07	A100	
44	MC1456N	30	90m	14m	10n	40n	40n	22	250M	22	2.0k	1.0M	97	2.5 +	70	07	A139	
45	MC1456T	30	90m	14m	10n	40n	40n	22	250M	22	2.0k	1.0M	97	2.5 +	70	07	A139	
46	AD510LH	30	90m	500n	25u	4.0n	15n	20	6.0M	20	10m	300k	108	100m	110	07	A476	
47	AD517LH	30	90m	500n	25u	250p	1.0n	30	20M	20	10	250k	120	10	100	07	A476	
48	AD510KH	30	90m	1.0u	50u	20n	20n	20	6.0M	20	10m	300k	108	100m	110	07	A476	
49	AD510SH #mil	30	90m	1.0u	50u	10n	30n	20	6.0M	20	10m	300k	108	100m	110	5C	A476	
50	AD517KH	30	90m	1.0u	50u	750p	2.0n	30	20M	20	10	250k	120	10	100	07	A476	
51	AD517SH	30	90m	1.0u	50u	750p	2.0n	30	20M	20	10	250k	120	10	100	5C	A476	
52	3500E	30	90m	1.0u	500u	30n	50n	22	10M	20	20m	1.5M	100	1.0	100	28	TO99	
53	AD504LH	30	90m	1.0u	500u	10n	50n	20	20	24	5.0m	300k	120	120m	110	07	TO99	
54	3500C	30	90m	3.0u	1.0m	7.0n	15n	22	10M	20	20m	1.5M	93	1.0	100	28	TO99	
55	AD504KH	30	90m	3.0u	1.5m	15n	15n	20	24	24	5.0m	300k	114	120m	100	07	TO99	
56	NE5530H	30	90m	3.0u	3.0m	80n	200n	24	6.0M	24	10k	3.0M	94	12	70	07	A390b	
57	SE530H	30	90m	3.0u	3.0m	20n	100n	24	10M	24	10k	3.0M	94	18	70	5C	A390	
58	SE5530H	30	90m	3.0u	3.0m	80n	100n	24	10M	24	10k	3.0M	94	18	70	5C	A390b	
59	AD381LH	30	90m	5.0u	25m	2.0p	25p	20	1.0T	20	20m	5.0M	100k	30	80	07	A477	
60	AD301ALH	30	90m	5.0u	500u	10n	45n	30	1.5M	24	25m	1.0M	98	250m	90	07	A419a	
61	AD301ALN	30	90m	5.0u	500u	10n	45n	30	1.5M	24	25m	1.0M	98	250m	90	07	A419a	
62	AD381TH #mil	30	90m	5.0u	0.5m	2.0p	25p	20	1.0T	20	20m	5.0M	100k	30	80	5C	A477	
63	AD642LH	30	90m	5u	0.5m	5.0p	35p	20	100G	20	20m	1.0M	93	3.0	80	07	A504c	
64	3500T	30	90m	5.0u	1.0m	7.0n	15n	22	10M	20	20m	1.5M	93	1.0	100	28	TO99	
65	AD521K	30	90m	5.0u	1.5m	10p	40n	20	3.0G	20	20m	2.0M	1.0k	10	74	07	CH18ac	
66	AD521S #mil	30	90m	5.0u	1.5m	10p	40n	20	3.0G	20	20m	2.0M	1.0k	10	74	5C	CH18ac	
67	3500B	30	90m	5.0u	2.0m	10n	20n	22	10M	20	20m	1.5M	93	1.0	100	28	TO99	
68	SE538H	30	90m	6.0u	4.0m	40n	200n	24	3.0M	24	10k	6.0M	94	40	70	5C	A390	
69	SE5538H	30	90m	6.0u	4.0m	40n	200n	24	3.0M	24	10k	6.0M	94	40	70	5C	A390e	
70	NE530F	30	90m	6.0u	6.0m	80n	200n	24	6.0M	24	10k	3.0M	94	12	70	07	A423	
71	NE530H	30	90m	6.0u	6.0m	80n	200n	24	6.0M	24	10k	3.0M	94	12	70	07	A390	
72	NE530N	30	90m	6.0u	6.0m	80n	150n	24	1.0M	24	10k	3.0M	94	12	70	07	A423	
73	NE538H	30	90m	6.0u	6.0m	80n	200n	24	1.0M	24	10k	6.0M	94	60	70	07	A390	
74	NE538N*	30	90m	6.0u	6.0m	80n	200n	24	1.0M	24	10k	6.0M	94	60	70	07	A423	
75	NE538T*	30	90m	6.0u	6.0m	80n	200n	24	1.0M	24	10k	6.0M	94	60	70	07	A390	
76	NE5538H	30	90m	6.0u	6.0m	80n	200n	24	1.0M	24	10k	6.0M	94	60	70	07	A390e	
77	MC1456V	30	90m	6.0u	1.0m	500n	2.0u	24	100k	28	10k	86	65	07		DL8k		
78	AD381KH	30	90m	10u	0.5m	2.0p	25p	20	1.0T	20	20m	5.0M	100k	30	80	07	A477	
79	AD381SH #mil	30	90m	10u	1.0m	2.0p	25p	20	1.0T	20	20m	5.0M	100k	30	80	5C	A477	
80	AD642KH	30	90m	10u	1.0m	5.0p	35p	20	100G	20	20m	1.0M	93	3.0	80	07	A504c	

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP RATED @25°C	INPUT CHARACTERISTICS								MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				T C E O M P E	DRAWINGS	
			1 | TOT. VOLT. (ΔV)	2 | IMAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)			
					3 | MAX VOLTAGE DRIFT (V/°C)	4 | JFST (V)	5 | OFFSET (A)	6 | BIAS (A)											7 | MIN. @25°C	8 | MAX @25°C
1	AM462-2M	30	90m†	15u‡§	5.0mΔ§	25n‡	25n‡	22	300M†	20	10m	100M‡†	103	35 †	100 †	5C	A228	TO99	
2	AD642JH	30	90m	20u‡	2.0m‡	75p‡	75p‡	22	100G	20	20	1.0M‡	93	3.0	76	07	A504c	TO99	
3	3500A	30	90m	20u	5.0m‡	15n‡	30n‡	22	10M†	20	20m	1.5M†	93	600m	100 †	28		TO99	
4	3500R	30	90m	20u	5.0m‡	15n‡	30n‡	22	10M†	20	20m	1.5M†	93	600m	100 †	5C		TO99	
5	OP01CJ	30	90m	20u	6.0m	40n	200n	24	4.0M	25	5.0K‡	2.5M†	88	18 †	80	07	A174	TO99	
6	OP01CP	30	90m	20u	6.0m	40n	200n	26 †		24	2.0K‡	2.5M†	88	12	80	07	A200a	DL8j	
7	OP01GJ	30	90m	20u	6.0m	40n	200n	24	4.0M	25	5.0K‡	2.5M†	88	18 †	80	5C	A174	TO99	
8	OP01GY	30	90m	20u	6.0m	40n	200n	24	4.0M	25	5.0K‡	2.5M†	88	18 †	80	5C	A173	DL14q	
9	OP02BJ	30	90m	20u	6.0m	50n	200n	26 †	1.0M	24	2.0K‡	800K‡	94	250m	70	5C	A369c	TO99	
10	OP02DJ	30	90m	20u	6.0m	50n	200n	26 †	1.0M	24	2.0K‡	800K‡	88	250m	70	07	A369c	TO99	
11	OP02DP	30	90m	20u	6.0m	50n	200n	26 †	1.0M	24	2.0K‡	800K‡	88	250m	70	07	A369e	DL8j	
12	OP04BK*	30	90m	20u	6.0m	50n	200n	26 †	1.0M	24	2.0K‡	800K‡	94	250m	70	5C	A369	TO100	
13	OP04BY*	30	90m	20u	6.0m	50n	200n	26 †	1.0M	24	2.0K‡	800K‡	94	250m	70	5C	A369a	DL14r	
14	OP04DK*	30	90m	20u	6.0m	50n	200n	26 †	1.0M	24	2.0K‡	800K‡	88	250m	70	07	A369	TO100	
15	OP04DY*	30	90m	20u	6.0m	50n	200n	26 †	1.0M	24	2.0K‡	800K‡	88	250m	70	07	A369a	DL14r	
16	OP14BJ*	30	90m	20u	6.0m	50n	200n	26 †	1.0M	24	2.0K‡	800K‡	94	250m	70	5C	A457	TO99	
17	OP14DJ*	30	90m	20u	6.0m	50n	200n	26 †	1.0M	24	2.0K‡	800K‡	88	250m	70	07	A457	TO99	
18	MA339CP	30	90m	20u	10m	50p	150p	24	1.0 †	24	20m	1.0M	90	7.0	90	07		DL8Z	
19	LM307DE	30	90m	30u	5.0m‡	20n‡	250n‡	24	500k	24	10k‡	1.0M‡†	88	500m†	80	07		DL8aa	
20	SG301AM	30	90m	30u	7.5m‡	70n	300n	30	500k	24	10k‡	600K‡†	88	500m†	80	07	A012	DL8h	
21	SG301AT	30	90m	30u	7.5m‡	70n	300n	30	500k	20	2.0K‡	600K‡†	88	500m†	80	07	A012	TO99	
22	uPC157A	30	90m	30u‡	7.5m‡	50n‡	250n‡	24	500k	24	10k‡		88		70	28	A234	Δ002AK	
23	AD301AH	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A419c	TO99	
24	AMLM307D	30	90m	30u	10m	70n	300n	27	500k	24	10k‡		88	200m	70	07	A156	DL14m	
25	CA301AE	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88	10 †	70	07	A508	DL8ad	
26	CA301AH	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A508	CH32	
27	CA301AS	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88	10 †	70	07	A508	CN46	
28	CA301AT	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88	10 †	70	07	A508	Δ002AL	
29	CA307E	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A235	DL8ad	
30	CA307G	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A235	DL8ad	
31	CA307H	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A235	CH32	
32	CA307S	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A235	CN46	
33	CA307T	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A235	Δ002AL	
34	LM301AF	30	90m	30u	10m	70n	300n	24	500k	24	10k‡	500k‡†	88	500	70	07	A419a	DL14bn	
35	LM301AH	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A234	CN1d	
36	LM301AHJ	30	90m	30u	10m	70n	300n	24	500k	20	2.0K‡		88		70	07	A508	CN1d	
37	LM301AJ	30	90m	30u	10m	70n	300n	24	1.5M	24	10k‡	1.0M†	88	2.0 †	70	07	A001b	TO116	
38	LM301AJ	30	90m	30u	10m	70n	300n	24	300k	24	10k‡		88		70	07	A508	TO116	
39	LM301AJ%	30	90m	30u	10m	70n	300n	24	300k	20	2.0K‡		88		70	07	A508	DL8s	
40	LM301AJG	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A419b	DL8v	
41	LM301AN	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A234	DL8ah	
42	LM301ANZ	30	90m	30u	10m	70n	300n	24	500k	20	2.0K‡		88		70	07	A508	DL8ac	
43	LM301AN-14	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A419a	DL14aw	
44	LM301AP	30	90m	30u	10m	70n	300n	24	500k	24	10k‡	100 †	88		70	07		DL14v	
45	LM301AT	30	90m	30u	10m	70n	300n	24	500k	24	10k‡	1.0M‡	88	500m	70	07	A419c	CN1g	
46	LM301AU	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A351	Δ004AA	
47	LM301AV	30	90m	30u	10m	70n	300n	24	500k	20	2.0K‡	1.0M‡	87	500m	70	07	A001d	DL8k	
48	LM307H	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A235	CN1d	
49	LM307J14	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A235	DL14bf	
50	LM307J	30	90m	30u	10m	70n	300n	24	500k	24	2.0K‡		87		70	07	A001b	TO116	
51	LM307JZ	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A235	DL8aq	
52	LM307JG	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A352a	DL8v	
53	LM307P	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A352a	DL8p	
54	LM307T	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88	500m	70	07	A174c	CN1g	
55	LM307U	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A352b	Δ004AA	
56	LM307V	30	90m	30u	10m	70n	300n	24	500k	20	2.0K‡	800k	87	500m	70	07	A001d	DL8k	
57#	SFC2301A	30	90m	30u	10m	70n	300n	24	500k	24	10k‡	100 †	88	500m†	70	07	A012	TO99	
58	SG301AY	30	90m	30u	10m	70n	300n	27	500k	24	10k‡	500k‡	88	3.0 †	80	07	A200	DL8s	
59#	TDA0301D	30	90m	30u	10m	70n	300n	24	500k	26	2.0K‡		88		70	28	A200a	MD8a	
60	uA301AHC	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A419	CN1d	
61	uA301ATC	30	90m	30u	10m	70n	300n	24	500k	24	10k‡		88		70	07	A419	DL8af	
62	AD741JH	30	99m	20u‡	4.0mΔ	100n	400n	30	Δ	1.0M†	20	1.0K‡	1.0M†	94	500m†	80	07	A174	TO99
63	AD741JN	30	99m	20u‡	4.0mΔ	100n	400n	30	Δ	1.0M†	20	1.0K‡	1.0M†	94	500m†	80	07	A200a	DL8m
64	uA777CJ	30	99m	30u	5.0m	40n	200n	24	1.0M	24	10k‡		88	500m†	70	07	A186b	DL14ah	
65	uA777CJG	30	99m	30u	5.0m	40n	200n	24	1.0M	24	10k‡		88	500m†	70	07	A186c	DL8v	
66	uA777CL	30	99m	30u	5.0m	40n	200n	24	1.0M	24	10k‡		88	500m†	70	07	A186a	CN1k	
67	uA777CN	30	99m	30u	5.0m	40n	200n	24	1.0M	24	10k‡		88	500m†	70	07	A186b	DL14bw	
68	uA777CP	30	99m	30u	5.0m	40n	200n	24	1.0M	24	10k‡		88	500m†	70	07	A186c	DL8p	
69	uA777CU	30	99m	30u	5.0m	40n	200n	24	1.0M	24	10k‡		88	500m†	70	07	A186	Δ004AE	
70#	MA741MJG	30	100m	6.0m	500n	1.5u	24	300k	24	10k‡		94	500m†	70	5C	A154	DL8v		
71#	MA741MP	30	100m	6.0m	500n	1.5u	24	300k	24	10k‡		94	500m†	70	5C	A154	DL8q		
72#	MA747MJ	30	100m	6.0m	500n	1.5u	24	300k	24	10k‡		94	500m†	70	5C	A154a	DL14ah		
73#	MA747-1CJ	30	100m	7.5m	300n	800n	24	300k	24	10k‡		94	500m†	70	07	A154a	DL14ah		
74#	MA747-1CN	30	100m	7.5m	300n	800n	24	300k	24	10k‡		94	500m†	70	07	A154a	DL14x		
75#	MA747CJ	30	100m	7.5m	300n	800n	24	300k	24	10k‡		94	500m†	70	07	A154a	DL14ah		
76#	MA747CN	30	100m	7.5m	300														

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C			DRAWINGS			
		RATED SPECS		OVER OPERATING TEMP. RANGE			MIN. @25°C			CHAR. @25°C		3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	E O M D P E	C K T.	OUT-LINE Δ=MO
		1] TOT VOLT. (ΔV)	2] MAX IDLE P (W)	3] DRIFT (V/°C)	4] OFFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)							
1#	MA709AMJ	30	108m	10u	3.0m	250nZ	600nZ	16	350k	24	10k0	93	+	80	5C	A003	TO116	
2#	MA709AMJG	30	108m	10u	3.0m	250nZ	600nZ	16	350k	24	10k0	93	+	80	5C	A003a	DL8v	
3#	SFC2709AP	30	108m	10u	3.0m	250nZ	600nZ	16	350k	24	10k0	87		80	5C	A003b	TO91	
4	SN52709AJP	30	108m	10u	3.0m	250nZ	600nZ	16	350k	24	10k0	93	+	80	5C	A003a	DL8q	
5	uA709AF	30	108m	10u	3.0m	50n	200n	16	350k	24	10k0	88		80	5C	A003	DL14bn	
6	uA709AMJ	30	108m	10u	3.0m	50n	200n	16	350k	24	10k0	93		80	5C	A003	DL14ah	
7	uA709AMJG	30	108m	10u	3.0m	50n	200n	16	350k	24	10k0	93		80	5C	A003a	DL8v	
8	uA709AML	30	108m	10u	3.0m	50n	200n	16	350k	24	10k0	93		80	5C	A003b	CN1k	
9	uA709AMU	30	108m	10u	3.0m	50n	200n	16	350k	24	10k0	93		80	5C	A003	Δ004AE	
10	uA709AN	30	108m	10u	3.0m	50n	200n	16	350k	24	10k0	88		80	5C	A003a	DL8ao	
11	uA709AN-14	30	108m	10u	3.0m	50n	200n	16	350k	24	10k0	88		80	5C	A003	DL14aw	
12	uA709AT	30	108m	10u	3.0m	50n	200n	16	350k	24	10k0	88		80	5C	A003b	TO99	
13	UA709AMU	30	108m	10u	3.0m	50n	300n	16	350k	24	10k0	93		80	5C	A003	Δ004AE	
14	AD382JH	30	108m	15u	1.0m	5.0p	5.0p	20	1.0T	20	80m	100k		76	07	A572	TO8	
15	LM709AH	30	108m	15u	3.0m	250nZ	600nZ	16	350k	24	10k0	88		80	5C	A003b	CN1d	
16	uA709AFM	30	108m	25u	3.0m	250n	600n	16	350k	24	10k0	88		80	5C	A003c	FP2w	
17	uA709AFM	30	108m	25u	3.0m	250m	600n	16	350k	24	10k0	88		80	5C	A003b	CN1d	
18	JANM38510/11001BCA*	30	108m	25u	6.0m	75n	325n	30		32	10k0	94		200m	76	5C	A396d	DL14bb
19	JANM38510/11001BCB*	30	108m	25u	6.0m	75n	325n	30		32	10k0	94		200m	76	5C	A396d	DL14bb
20	JANM38510/11001CCA*	30	108m	25u	6.0m	75n	325n	30		32	10k0	94		200m	76	5C	A396d	DL14bb
21	JANM38510/11001CCB*	30	108m	25u	6.0m	75n	325n	30		32	10k0	94		200m	76	5C	A396d	DL14bb
22	HA1-2620-2	30	111m	7.0m	35n	35n	22	65M	20	30m	100M†	100	25	80	5C	A231a	DL14am	
23	HA2-2620-2	30	111m	7.0m	35n	35n	22	65M	20	30m	100M†	100	25	80	5C	A231	TO99	
24	HA9-2620-2	30	111m	7.0m	35n	35n	22	65M	20	30m	100M†	100	25	80	5C	A232	TO91	
25	MC3358P1	30	111m	10m	250n	1.0u	27	300k	24	10k0	9.0k†Z	86	600m†	70	48	A292a	DL8d	
26	MC3458G	30	111m	12m	200n	800n	28	300k	24	10k0	9.0k†Z	86	600m†	70	07	A292a	TO99	
27	MC3458P1	30	111m	12m	200n	800n	28	300k	24	10k0	9.0k†Z	86	600m†	70	07	A292a	DL8d	
28	MC3458U	30	111m	12m	200n	800n	28	300k	24	10k0	9.0k†Z	86	600m†	70	07	A292a	DL8s	
29	HA1-2600-2	30	111m	5.0u†	6.0m	30n	30n	22	100M	20	30m	12M†	100	4.0	80	5C	A231a	DL14am
30	HA2-2600-2	30	111m	5.0u†	6.0m	30n	30n	22	100M	20	30m	12M†	100	4.0	80	5C	A231	TO99
31	HA9-2600-2	30	111m	5.0u†	6.0m	30n	30n	22	100M	20	30m	12M†	100	4.0	80	5C	A232	TO91
32	MC4741L	30	120m	6.0m	500n	1.5u	24	300k	24	10k0	2.0k0	94	500m†	70	07	A014	TO116	
33	RM3503ADC*	30	120m	6.0m	200n	800n	36	Δ	40M	20	2.0k0	1.0M†	94	2.0	70	5C	A308	DL14av
34	HA1-2602-2	30	120m	7.0m	60n	60n	22	40M	20	20m	12M†	98	4.0	74	5C	A231a	DL14am	
35	HA1-2605-5	30	120m	7.0m	40n	40n	22	40M	20	20m	12M†	98	4.0	74	07	A231a	DL14am	
36	HA1-2622-2	30	120m	7.0m	60n	60n	22	40M	20	20m	100M†	98	20	74	5C	A231a	DL14am	
37	HA1-2625-5	30	120m	7.0m	40n	40n	22	40M	20	20m	100M†	98	20	74	07	A231a	DL14am	
38	HA2-2602-2	30	120m	7.0m	60u	60u	22	40M	20	20m	12M†	98	4.0	74	5C	A231	TO99	
39	HA2-2605-5	30	120m	7.0m	40n	40n	22	40M	20	20m	12M†	98	4.0	74	07	A231	TO99	
40	HA2-2622-2	30	120m	7.0m	60u	60u	22	40M	20	20m	100M†	98	20	74	5C	A231	TO99	
41	HA2-2625-5	30	120m	7.0m	40n	40n	22	40M	20	20m	100M†	98	20	74	07	A231	TO99	
42	HA9-2602-2	30	120m	7.0m	60n	60n	22	40M	20	20m	12M†	98	4.0	74	5C	A232	TO91	
43	HA9-2605-5	30	120m	7.0m	40n	40n	22	40M	20	20m	12M†	98	4.0	74	07	A232	TO91	
44	HA9-2622-2	30	120m	7.0m	60n	60n	22	40M	20	20m	100M†	98	20	74	5C	A232	TO91	
45	HA9-2625-5	30	120m	7.0m	40n	40n	22	40M	20	20m	100M†	98	20	74	07	A232	TO91	
46	MC1456CG	30	120m	12m	30n	90n	21	3.0M†	20	2.0k0	1.0M†	88	2.5	110	07	A100	CN1k	
47	MC1456CJ	30	120m	12m	30n	90n	21	3.0M†	20	2.0k0	1.0M†	88	2.5	110	07	A100	TO116	
48	MC1456CP1	30	120m	12m	30n	90n	21	3.0M†	20	2.0k0	1.0M†	88	2.5	110	07	A100	DL8ac	
49	MC1456CU	30	120m	12m	30n	90n	21	3.0M†	20	2.0k0	1.0M†	88	2.5	110	07	A100	DL8s	
50	OP05N	30	120m	0.3u†	15m	2.0n	2.0n	20	20M	25	Δ	200	Δ	114	6F		CH16z	
51	ADOP07AH	30	120m	0.6u	25u	2.0n	4.0n	26	30M	25	10k0	60k0†	109	170m†	110	5C	A477	TO99
52	OP07AJ	30	120m	600n	60u	4.0n	4.0n	26	30M	25	10k0	60k0†	109	170m†	110	5C	A174a	TO99
53	OP07AY	30	120m	600n	60u	4.0n	4.0n	26	30M	25	10k0	60k0†	109	170m†	110	5C	A173c	DL14k
54	uA714AHM	30	120m	600n	60u	4.0n	4.0n	26	30M	25	10k0	1.2M0	109	250m†	110	5C	A174q	CN1d
55	OP05G	30	120m	0.7u†	0.5m	3.8n	4.0n	26	15M	25	Δ	200	Δ	110	6F		CH16z	
56	OP05AJ	30	120m	900n	240u	4.0n	4.0n	27	30M	25	10k0	60k0†	109	170m†	114	5C	A261a	TO99
57	OP05AY	30	120m	900n	240u	4.0n	4.0n	27	30M	25	10k0	60k0†	109	170m†	114	5C	A261a	DL14q
58	3521L	30	120m	1.0u	250u	2.0p†	10p	20	100G†	20	20m	1.5M†	100	1.0	90	07		TO99
59	ADOP07EH	30	120m	1.3u	75u	3.8n	8.0n	26	15M	25	20M	0.6M†	106	170m†	110	5C	A477	TO99
60	ADOP07H	30	120m	1.3u	75u	2.8n	6.0n	26	20M	25	20M	0.6M†	106	170m†	110	5C	A477	TO99
61	OP07EJ	30	120m	1.3u	130u	5.3n	5.5n	26	15M	25	10k0	60k0†	106	170m†	106	07	A174a	TO99
62	OP07EP	30	120m	1.3u	130u	5.3n	5.5n	26	15M	25	20M	400k0	106	100m	106	07	A261b	DL8j
63	OP07EY	30	120m	1.3u	130u	5.3n	5.5n	26	15M	25	10k0	60k0†	106	170m†	106	07	A173c	DL14k
64	uA714EHC	30	120m	1.3u	130u	5.3n	5.5n	26	15M	25	10k0	1.2M0	106	250m†	106	06	A174q	CN1d
65	OP07J	30	120m	1.3u	200u	5.6n	6.0n	26	20M	25	10k0	60k0†	106	170m†	110	5C	A174a	TO99
66	OP07Y	30	120m	1.3u	200u	5.6n	6.0n	26	20M	25	10k0	60k0†	106	170m†	110	5C	A173c	DL14k
67	uA714HM	30	120m	1.3u	200u	5.6n	6.0n	26	20M	25	10k0	1.2M0	106	250m†	110	5C	A174q	CN1d
68	ADOP07EN	30	120m	1.3u	130	5.3n	5.5n	26	15M	25	20M	0.6M†	106	170m†	110	5C	A477	TO99
69	3521K	30	120m	2.0u	250u	2.0p†	15p	20	100G†	20	20m	1.5M†	100	1.0	90	07		TO99
70	OP05EJ	30	120m	2.0u	600u	5.3n	5.5n	27	15M	25	10k0	60k0†	101	170m†	110	07	A261a	TO99
71	OP05EP	30	120m	2.0u	600u	5.3n	5.5n	27	15M	24	2.0k0	400k0	106	100m	110	07	A261b	DL8j
72	OP05EY	30	120m	2.0u	600u	5.3n	5.5n	27	15M	25	10k0	60k0†	101	170m†	110	07	A261a	DL14q
73	OP10EY*	30	120m	2.0u	600u	5.3n	5.5n	26	15M	25	10k0	60k0†	106	170m†	106	07	A261	DL14q
74	OP05J	30	120m	2.0u	700u	5.6n	6.0n	27	20M	25	10k0	60k0†	101	170m†	114	5C	A261a	TO99
75	OP05Y	30	120m	2.0u	700u	5.6n	6.0n	27	20M	25	10k0	60k0†	101	170m†	114	5C	A261a	DL14q
76	OP10AY*	30	120m	2.0u	700u	5.6n	6.0n	26										

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C			E O P M D	T C	DRAWINGS		
		RATED VOLT. (ΔV)	SPECS MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)				SLEW RATE (V/uS)	CMRR (dB)
				3 DRIFT (V/°C)	4 JFST (V)	MAX VOLTAGE (V)	OFFSET (A)													MAX CURRENT (A)	MIN. @25°C
1	LD355	30	120m	5.0u	13m	50p	200p	22	1.0T	24	10k	2.5M	106	5.0	80	07	A361	CH0	
2	LF355	30	120m	5.0u	13m	50p	200p	20	1.0T	24	10k	2.5M	88	5.0	80	07	A349a	CN1d	
3	LF355H	30	120m	5.0u	13m	50p	200p	20	1.0T	24	10k	2.5M	88	5.0	80	07	A361	DL8s	
4	LF355N	30	120m	5.0u	13m	2.0n	8.0n	20	1.0T	24	10k	2.5M	88	5.0	80	07	A361	DL8ah	
5	LF355N	30	120m	5.0u	13m	50p	200p	20	1.0T	24	10k	2.5M	88	5.0	80	07	A174	TO99	
6	PH355J	30	120m	5.0u	13m	2.0n	8.0n	20	1.0T	24	2.0k	2.5M	88	5.0	80	07	A283	TO99	
7	HA2655	30	120m	8.0u	7.0m	100n	300n	26	5.0M	26	10k	30k	86	2.0	74	07	A174	TO99	
8	3521H	30	120m	10u	500u	2.0p	20p	20	100G	20	20m	1.5M	93	1.0	90	07	A174	TO99	
9	OP15FJ	30	120m	10u	1.5m	800p	1.1n	21	1.0T	22	2.0k	13M	98	7.5	86	07	A174	TO99	
10	OP15BJ	30	120m	10u	2.0m	1.1n	1.9n	13	300k	24	10k	1.0M	94	600m	70	5C	A362	DL14ah	
11	MC3503J*	30	120m	10u	6.0m	200n	1.5u	28	300k	24	10k	9.0k	94	600m	70	5C	A292	TO116	
12	MC3503J*	30	120m	10u	6.0m	200n	1.5u	28	300k	24	10k	1.0M	94	600m	70	5C	A308	DL14bp	
13	XR3503M*	30	120m	10u	6.0m	200n	1.5u	28	300k	26	10k	1.0M	86	600m	70	07	A339	CN1d	
14	uA798TC*	30	120m	10u	1.5m	2.0n	8.0n	22	500G	24	10k	1.0M	88	500m	70	07	A361a	CN8g	
15	LF13741H	30	120m	10u	1.5m	2.0n	8.0n	22	500G	24	10k	1.0M	88	500m	70	07	A361	DL8ah	
16	LF13741H	30	120m	10u	1.5m	2.0n	8.0n	22	500G	24	10k	1.0M	88	500m	70	07	A361	DL8ah	
17	RM799DC	30	120m	15u	4.0m	300n	1.0u	16	400k	24	10k	1.0M	88	400m	70	5C	A003	DL14av	
18	RM709T	30	120m	15u	4.0m	300n	1.0u	16	400k	24	10k	1.0M	88	400m	70	5C	A003b	TO99	
19	MC3505L*	30	120m	15u	6.0m	200n	1.5u	28	50M	20	2.0k	1.0	91	600m	70	5C	A415	TO116	
20	AM450-2	30	120m	20u	8.0m	50n	250n	20	50M	20	10m	12M	88	30	90	07	A228	TO99	
21	AM450-2M	30	120m	20u	8.0m	50n	250n	20	50M	20	10m	12M	88	30	90	07	A228	TO99	
22	1321_01	30	120m	30u	5.0m	25n	25n	24	40M	20	20m	100M	98	20	100	07	TO99		
23	1321_01	30	120m	30u	5.0m	25n	25n	24	40M	20	20m	100M	98	20	100	07	TO99		
24	350BJ	30	120m	30u	7.0m	40n	40n	22	40M	20	20m	100M	98	20	74	06	A174g	TO99	
25	AM452-2	30	120m	30u	10m	50n	250n	20	100M	20	10m	20M	83	120	90	07	A228	TO99	
26	AM452-2M	30	120m	30u	10m	50n	250n	20	100M	20	10m	20M	83	120	90	07	A228	TO99	
27	LM339DE	30	120m	30u	10m	70n	300n	24	500k	26	2.0k	88	500m	70	07	A234	DL8aa		
28#	SFC230T	30	120m	30u	10m	70n	300n	24	500k	24	500k	24	500m	70	07	TO99			
29#	SFC230TDC	30	120m	30u	10m	70n	300n	24	500k	24	500k	24	500m	70	07	DL8a			
30	OP07G	30	120m	0.2	40u	2.0n	2.0n	26	25	24	25	200	110	6F	CH16z				
31	OP07G	30	120m	0.3	80u	3.0n	3.0n	26	25	24	25	200	110	6F	CH16z				
32	LM248J	30	135m	7.5m	1.25n	500n	24	800k	24	10k	1.0M	88	500m	70	28	A308	TO116		
33	LM248J	30	135m	7.5m	1.25n	500n	24	800k	24	10k	4.0M	88	2.0	70	28	A308	TO116		
34	LM348J*	30	135m	7.5m	1.00n	400n	24	800k	24	10k	1.0M	88	500m	70	07	A308	TO116		
35	LM348N*	30	135m	7.5m	1.00n	400n	24	800k	24	10k	1.0M	88	500m	70	07	A308	DL14z		
36	LM349J	30	135m	7.5m	1.00n	400n	24	800k	24	10k	4.0M	88	2.0	70	07	A308	TO116		
37	LM349N	30	135m	7.5m	1.00n	400n	24	800k	24	10k	4.0M	88	2.0	70	07	A308	DL14z		
38	uA248DC	30	135m	7.5m	1.25n	500n	24	800k	24	10k	1.0M	88	500m	70	28	A308			
39	uA348DC	30	135m	7.5m	1.00n	400n	24	800k	24	10k	1.0M	88	500m	70	07	A308			
40	1443D-83	30	135m	25u	0.5m	-10p	-10p	18	26	26	260m	80M	110	1.2k	100	5C	A411	TO3	
41	1443D	30	135m	50u	1.0m	-10p	-10p	18	26	26	260m	80M	105	1	90	07	A411	TO3	
42	AD518K	30	140m	15u	4.0m	100n	400n	30	0.5M	24	20m	12M	50k	50	80	07	CH16p		
43	AD518S#mil	30	140m	20u	4.0m	100n	400n	30	0.5m	24	20m	12M	50k	50	80	5C	CH16p		
44	ADOP07C	30	150m	150u	6.0n	7.0n	26	8.0M	24	20m	12M	1.2m	17	100	07	CH64			
45	ADOP07D	30	150m	150u	6.0n	12n	26	7.0M	24	20m	12M	1.2m	17	94	07	CH64			
46	RM1558T*	30	150m	5.0m	200n	500n	26	1.0M	24	10k	1.0M	93	800m	90	5C	A457	TO99		
47	HA2420	30	150m	6.0m	100n	400n	20	5.0M	20	20m	2.0M	88	5.0	80	5C	A279	DL14bs		
48	LM1558H*	30	150m	6.0m	500n	1.5u	24	300k	24	10k	1.0M	93	800m	70	5C	A042h	CN1d		
49	LM1558J*	30	150m	6.0m	500n	1.5u	24	300k	24	10k	1.0M	94	800m	70	5C	A042p	DL8aq		
50	MC1558F*	30	150m	6.0m	500n	1.5u	24	2.0M	24	10k	1.0M	94	800m	70	5C	A014b	DL14bn		
51	MC1558JG	30	150m	6.0m	500n	1.5u	24	2.0M	24	10k	1.0M	94	800m	70	5C	A396b	DL8v		
52	MC1558N*	30	150m	6.0m	500n	1.5u	24	2.0M	24	10k	1.0M	94	800m	70	5C	A014c	DL8ao		
53	MC1558N-14*	30	150m	6.0m	500n	1.5u	24	2.0M	24	10k	1.0M	94	800m	70	5C	A014b	DL14aw		
54	MC1558NG*	30	150m	6.0m	500n	1.5u	24	300k	24	10k	1.1M	93	500m	70	5C	A014a	TO99		
55	MC1558NL	30	150m	6.0m	500n	1.5u	24	300k	24	10k	1.1M	93	500m	70	5C	A014b	TO116		
56	MC1558NU	30	150m	6.0m	500n	1.5u	24	300k	24	10k	1.1M	93	500m	70	5C	A014c	DL8s		
57	MC1558SG	30	150m	6.0m	500n	1.5u	24	300k	24	10k	150k	94	10	70	5C	A367	TO99		
58	MC1558SL	30	150m	6.0m	500n	1.5u	24	300k	24	10k	150k	94	10	70	5C	A367	DL14ag		
59	MC1558SU	30	150m	6.0m	500n	1.5u	24	300k	24	10k	150k	94	10	70	5C	A367	DL8s		
60	MC1558T	30	150m	6.0m	500n	1.5u	24	300k	24	10k	1.1M	96	800m	70	5C	A014a	CN1g		
61	MC1558U	30	150m	6.0m	500n	1.5u	24	300k	24	10k	1.1M	93	500m	70	5C	A014c	DL8s		
62	MC4558ACP1*	30	150m	6.0m	200n	500n	24	300k	20	2.0k	2.5M	91	1.5	70	07	A396b	DL8e		
63	MC4558G*	30	150m	6.0m	500n	1.5u	24	300k	20	2.0k	2.5M	91	1.5	70	5C	A396b	CN1k		
64	MC4558NCG*	30	150m	6.0m	200n	500n	24	300k	20	2.0k	2.5M	91	1.5	70	07	A373d	CN1d		
65	MC4558NCP1*	30	150m	6.0m	200n	500n	24	300k	20	2.0k	2.5M	91	1.5	70	07	A396b	DL8e		
66	MC4558NCU*	30	150m	6.0m	200n	500n	24	300k	20	2.0k	2.5M	91	1.5	70	07	A396b	DL8s		
67	MC4558NG*	30	150m	6.0m	200n	500n	24	300k	20	2.0k	2.5M	91	1.5	70	5C	A373d	CN1d		
68	MC4558NU*	30	150m	6.0m	200n	500n	24	300k	20	2.0k	2.5M	91	1.5	70	5C	A396b	DL8s		
69	MC4558U*	30	150m	6.0m	200n	500n	24	300k	20	2.0k	2.5M	91	1.5	70	5C	A396b	DL8s		
70	RM1558DE	30	150m	6.0m	500n	1.5u	24	300k	24	10k	1.0M	93	500m	90	5C	A396b	DL8aa		
71	uA1558RM	30	150m	6.0m	500n	1.5u	24	300k	24	10k	1.0M	93	88	80	70	5C	A373d	DL8t	
72	AD583K	30	150m	8.0m	100n	400n	20	5.0M	20	20m	2.0M	88	5.0	74	07	A279	DL14bs		
73	HA2425	30	150m	8.0m	100n	400n	20	5.0M	20	20m	2.0M	88	5.0	74	07	A279	DL14bs		
74	RC3403ADB*	30	150m	10m	200n	1.5u	36	Δ	26	26	2.0k	1.0M	88	2.0	70	07	A308	DL14au	
75	RC3403ADC*	30	150m	10m	200n	1.5u	36	Δ	26	26	2.0k	1.0M	88	2.0	70	07	A308	DL14av	
76	RV3403ADB*	30	150m	10m	200n	1.5u	36	Δ	26	26	2.0k	1.0M	88	2.0	70	48	A308	DL14au	
77	1340S	30	150m	200n	50p	150p	80n	27	100M										

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS							MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C			DRAWINGS				
		RATED VOLT. (ΔV)	SPECS MAX IDLE P (W)	OVER OPERATING TEMP. RANGE				MIN. @25°C		P.P VOLT. (ΔV)	P.P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	E O M P E	CKT.	OUT-LINE Δ=MO		
				1) TOT.	2) MAX	3) DRIFT (V/°C)	4) JFST (V)	5) OFFSET (A)	BIAS (A)										CM RANGE (ΔV)	DIFF IMP. (Ω)
1	HA4741-8	30	150m	5.0u	5.0m	100n	400n	24	500k	20	10m	3.5M0	86	1.6	80	5C	A308	DL14av		
2	HA4741-2*	30	150m	5.0u	5.0m	75n	325n	24	5.0M†	20	10m	3.5M0†	84	1.6	80	5C	A308	DL14as		
3	RM4156DC	30	150m	5.0u	5.0m	75n	325n	24	5.0M†	24	10m	2.8M0	84	1.0	80	5C		DL14av		
4	RM4157DC*	30	150m	5.0u	5.0m	75n	325n	24	500k	24	2.0k0	15M§	96	6.5	80	5C		DL14av		
5#	SFC2761C	30	150m†	6.0u	7.5m§	330n§	1.5u§	27	200k	24	620 0		80 †	9.0 †	80	07	A125a	CN44		
6#	SFC2761DC	30	150m†	6.0u	7.5m§	330n§	1.5u§	27	200k	24	620 0		80 †	9.0 †	80	07	A125a	DL6a		
7	TL072AMJG*	30	150m	10u†	5.0m	2.0n	50n	24	1.0T†	24	10k0	3.0M0	84	13 †	80	5C	A396b	DL8v		
8	TL072BPCJG*	30	150m	10u†	5.0m	2.0n	7.0n	24	1.0T†	24	10k0	3.0M0	84	13 †	80	07	A396b	DL8v		
9	TL072BPCJG*	30	150m	10u†	5.0m	2.0n	7.0n	24	1.0T†	24	10k0	3.0M0	84	13 †	80	07	A396b	DL8v		
10	MC34002BG*	30	150m	10u†§	7.0m	4.0n	8.0n	22	1.0T†	20	2.0k0	4.0M†	84	13 †	80	07	A431a	TO99		
11	MC34002BP*	30	150m	10u†§	7.0m	4.0n	8.0n	22	1.0T†	20	2.0k0	4.0M†	84	13 †	80	07	A431c	DL8ac		
12	MC34002BU*	30	150m	10u†§	7.0m	4.0n	9.0n	22	1.0T†	20	2.0k0	4.0M†	84	13 †	80	07	A431c	DL8s		
13	TL072ACJG*	30	150m	10u†	7.5m	2.0n	7.0n	24	1.0T†	24	10k0	3.0M0	84	13 †	80	07	A396b	DL8v		
14	TL072ACJG*	30	150m	10u†	7.5m	2.0n	7.0n	24	1.0T†	24	10k0	3.0M0	84	13 †	80	07	A396b	DL8p		
15	TL072ACJG*	30	150m	10u†	9.0m	1.0n	20n	24	1.0T†	24	10k0	3.0M0	84	13 †	80	28	A396b	DL8p		
16	TL072FJG*	30	150m	10u†	9.0m	1.0n	20n	24	1.0T†	24	10k0	3.0M0	84	13 †	80	28	A396b	DL8p		
17	TL072MJG*	30	150m	10u†	9.0m	2.0n	50n	24	1.0T†	24	10k0	3.0M0	84	13 †	80	5C	A396b	DL8v		
18	TL072MJG*	30	150m	10u†	9.0m	2.0n	50n	24	1.0T†	24	10k0	3.0M0	84	13 †	80	5C	A396c	CN1k		
19	TL072CJG*	30	150m	10u†	13m	2.0n	7.0n	20	1.0T†	24	10k0	3.0M0	88	13 †	70	07	A396b	DL8v		
20	TL072CP*	30	150m	10u†	13m	2.0n	7.0n	20	1.0T†	24	10k0	3.0M0	88	13 †	70	07	A396b	DL8p		
21	OP15GJ	30	150m	15u	3.8m	1.2n	1.5n	24	1.0T†	22	2.0k0	1.2M0†	84	5.0	82	07	A174	TO99		
22	uA741AFM	30	150m	15u§	4.0m	7.0n	210n	30 Δ	1.0M	32	10k0	437k	84	300m	80	5C	A241	CP2w		
23	uA741AHM	30	150m	15u§	4.0m	7.0n	210n	30 Δ	1.0M	32	10k0	437k	84	300m	80	5C	A241	CN1d		
24	uA741EHC	30	150m	15u§	4.5m	7.0n	210n	30 Δ	1.0M	32	10k0	437k	84	300m	80	07	A241	CN1d		
25	OP15CJ	30	150m	15u	4.5m	17n	1.9n	21	1.0T†	22	2.0k0	1.2M0†	84	5.0 †	82	5C	A174	TO99		
26	OP15CP	30	150m	15u	4.5m	50p	200p	21	1.0T†	22	2.0k0	1.2M0†	84	5.0 †	82	5C		TO99		
27	MC1558G*	30	150m	15u†	6.0m	500n	1.5u	24	300k	24	300k	24	10k0	14k†	83	500m†	70	5C	A014a	TO99
28	MC1558L*	30	150m	15u†	6.0m	500n	1.5u	24	300k	24	10k0	14k†	83	500m†	70	5C	A014b	DL14ag		
29#	SFC2459HM*	30	150m	15u†	6.0m	500n	1.5u	24	300k	24	10k0	14k†	83	800m†	70	5C	A014	TO99		
30	uA1559HM	30	150m	15u	6.0m	500n	1.5u	24	300k	24	10k0	14k†	84	800m†	70	5C	A373d	CN1d		
31	uPC55A	30	150m	20u§	5.0m§	200n§	800n§	18	100k	20	2.0k0		120 Δ		70	28	A003b	Δ002AK		
32	uPO7GR	30	150m	0.7 †	150u§	6.0n	7.0n§	28		24	Δ		50 Δ		100	6F		CH16z		
33	OP06GR	30	150m	2.0 †	1.3m	35n	125n§	27		24	Δ				100	6F		CH16z		
34	ICL8007M	30	156m		7.5u	5p		20		24	10k0	1.0M0	84	6.0 †	70	5C	A174c	CN1f		
35	ICL8007MTA	30	156m		7.5u	5p		20	10T	24	10k0	1.0M0	84	6.0 †	70	5C	A131	CN1f		
36	uA740T	30	156m		30m	185p†		20	1.0T	20	2.0k0	3.0M0†	93	6.0 †	64	5C		CN1g		
37	ICL8007MTV	30	156m	75u	20m§	500p†		20	1.0T†	20	2.0k0	1.0M0†	96	6.0 †	70	5C		TO99		
38	MC34002G*	30	182m	10u†§	13m	4.0n	8.0n	22	1.0T†	20	2.0k0	4.0M†	88	13 †	70	07	A174h	TO99		
39	MC34002P*	30	182m	10u†§	13m	4.0n	8.0n	22	1.0T†	20	2.0k0	4.0M†	88	13 †	70	07	A431a	DL8ac		
40	MC34002J*	30	182m	10u†§	13m	4.0n	8.0n	22	1.0T†	20	2.0k0	4.0M†	88	13 †	70	07	A431c	DL8s		
41	HA4822-2*	30	165m	2.0u†	2.5m	125n	325n	24	500k†	24	20m	70n§	88	12	86	5C	A358	DL14aa		
42	HA4802-2*	30	165m	2.0u†	3.0m	125n	325n	24	500k†	24	10k0	8.0M0†	100	4.0u†	86	5C	A358	DL14c		
43#	MA709MJ	30	165m	3.0u†	6.0m	500nZ	1.5uZ	16	150k	24	10k0		93 †		70	07	A003	TO116		
44#	MA709MP	30	165m	3.0u†	6.0m	500nZ	1.5uZ	16	150k	24	10k0		93 †		70	07	A003a	DL8q		
45#	MC1709G	30	165m	3.0u†	6.0m	200nZ	1.5uZ	16	40k	24	10k0		88 †		70	07	A043	CN1j		
46	MC1709L	30	165m	3.0u†	6.0m	200nZ	1.5uZ	16	40k	24	10k0		88 †		70	07	A043	TO116		
47#	SFC2709EM	30	165m	3.0u†	6.0m	500nZ	1.5uZ	16	150k	24	10k0		87	250m†	70	5C	A003	TO116		
48#	SFC2709PM	30	165m	3.0u†	6.0m	500nZ	1.5uZ	16	150k	24	10k0		87	250m†	70	5C	A003c	TO99		
49	uA709MJ	30	165m	3.0u†	6.0m	200n§	500n§	16	150k	24	10k0		93		70	5C	A003	DL14ah		
50	uA709MJG	30	165m	3.0u†	6.0m	200n§	500n§	16	150k	24	10k0		93		70	5C	A003a	DL8v		
51	uA709M	30	165m	3.0u†	6.0m	200n§	500n§	16	150k	24	10k0		93		70	5C	A003b	CN1k		
52	uA709MU	30	165m	3.0u†	6.0m	200n§	500n§	16	150k	24	10k0		93		70	5C	A003	Δ004AE		
53	LM709H	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10k0	1.0M0	88	250m†	70	5C	A003	CN1l		
54	uA709F	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10k0		88		70	5C	A003	DL14bn		
55	uA709FM	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10k0		88		70	5C	A003c	FP2w		
56	uA709HM	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10k0		88		70	5C	A003b	CN1d		
57	uA709N	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10k0		88		70	5C	A003b	DL8ao		
58	uA709N-14	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10k0		88		70	07	A003	DL14aw		
59	uA709PC	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10k0		88		70	07	A003	DL16z		
60	uA709T	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10k0		88		70	5C	A003b	TO99		
61	uA709TC	30	165m	6.0u†	6.0m	500n	1.5u	16	150k	24	10k0		88		70	07	A003a	DL8af		
62#	ZLD709	30	165m	6.0u†	6.0m	500n§	1.5u	16	150k	20	2.0k0		87		70	5C	A081	TO78		
63#	ZLD709F	30	165m	6.0u†	6.0m	500n§	1.5u	16	150k	20	2.0k0		87		70	5C	A081	FP2		
64	LM102H883	30	168m	6.0u†	7.5m	1.0n		30	10G	20		1.0M0	0.0	10	500m†	80	5C	A122	CN1a	
65	MC1458P*	30	168m		6.0m§	200n§	500n§	24	300k	24	3.0k0	3.0M0	86	1.5	80	5C	A014	Δ001AA		
66	RM4559DE*	30	168m		6.0m	300n	500n	24	300k	24	3.0k0	3.0M0	86	1.5	80	5C	A396b	DL8aa		
67	RM4559T*	30	168m		6.0m	300n	500n	24	300k	24	3.0k0	3.0M0	86	1.5	80	5C	A373d	TO99		
68	LM1458H*	30	168m		7.5m	300n	800n	24	300k	24	10k0		86		70	07	A042p	CN1d		
69	LM1458J*	30	168m		7.5m	300n	800n	24	300k	24	10k0		86		70	07	A042p	DL8ag		
70	LM1458N*	30	168m		7.5m	300n	800n	24	300k	24	10k0		86		70	07	A042p	DL8ah		
71	MC4558CG*	30	168m		7.5m	300n	800n	24	300k	20	2.0k0	2.0M0	84		70	07	A373d	CN1d		
72	MC4558CP1*	30	168m		7.5m	300n	800n	24	300k	20	2.0k0	2.0M0	84		70	07	A396b	DL8e		
73	MC4558CU*	30	168m		7.5m	300n	800n	24	300k	24	2.0k0	2.0M0	84		70	07	A396b	DL8s		
74	RC4559DE*	30	168m		7.5m	200n	500n	24	300k	24	3.0k0	3.0M0	86	1.5						

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C			T O C	E M P	DRAWINGS	OUT-LINE Δ=MO
		1] TOT. VOLT. (ΔV)	2] MAX IDLE P (W)	OVER OPERATING TEMP. RANGE			MIN.-@25°C		CHAR.@25°C		3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)				
				3] DRFT (V/°C)	4] OFST (V)	5] MAX VOLTAGE (A)	6] MAX CURRENT (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P.P. VOLT. (ΔV)									P.P. CUR. (ΔA)
1	uAF772BHM*	30	168m	10u†	8.0m	20n	50n	22	1.0†	24	10kΩ	3.0M†	94	13 †	80	5C	A457	TO99
2	uAF772BRM*	30	168m	10u†	8.0m	20n	50n	22	1.0†	24	10kΩ	3.0M†	94	13 †	80	5C	A457a	DL8t
3	TL082JG*	30	168m	10u†	9.0m	10n	20n	24	1.0†	24	10kΩ	3.0M†	94	13 †	80	28	A396b	DL8v
4	TL082MJG*	30	168m	10u†	9.0m	20n	50n	24	1.0†	24	10kΩ	3.0M†	94	13 †	80	5C	A396b	DL14ah
5	TL083JU*	30	168m	10u†	9.0m	10n	20n	24	1.0†	24	10kΩ	3.0M†	94	13 †	80	28	A373f	DL14ah
6	TL083MJ*	30	168m	10u†	9.0m	20n	50n	24	1.0†	24	10kΩ	3.0M†	94	13 †	80	5C	A373f	DL14ah
7	uAF772DC*	30	168m	10u†	13m	4.0n	8.0n	22	1.0†	24	10kΩ	3.0M†	94	13 †	70	07	A457b	DL14br
8	uAF772HC*	30	168m	10u†	13m	4.0n	8.0n	22	1.0†	24	10kΩ	3.0M†	94	13 †	70	07	A457	TO99
9	uAF772RC*	30	168m	10u†	13m	4.0n	8.0n	22	1.0†	24	10kΩ	3.0M†	94	13 †	70	07	A457a	DL8t
10	uAF772TC*	30	168m	10u†	13m	4.0n	8.0n	22	1.0†	24	10kΩ	3.0M†	94	13 †	70	07	A457a	DL8ag
11	TL082CJG*	30	168m	10u†	20m	5.0n	10n	20	1.0†	24	10kΩ	3.0M†	88	13 †	70	07	A396b	DL8v
12	TL083CJ*	30	168m	10u†	20m	5.0n	10n	20	1.0†	24	10kΩ	3.0M†	88	13 †	70	07	A373f	DL14ah
13	uAF772LDC*	30	168m	10u†	20m	4.0n	8.0n	22	1.0†	24	10kΩ	3.0M†	94	13 †	70	07	A457b	DL14br
14	uAF772LHC*	30	168m	10u†	20m	4.0n	8.0n	22	1.0†	24	10kΩ	3.0M†	94	13 †	70	07	A457	TO99
15	uAF772LRC*	30	168m	10u†	20m	4.0n	8.0n	22	1.0†	24	10kΩ	3.0M†	94	13 †	70	07	A457a	DL8t
16	uAF772LTC*	30	168m	10u†	20m	4.0n	8.0n	22	1.0†	24	10kΩ	3.0M†	94	13 †	70	07	A457a	DL8ag
17	SE5535F*	30	168m	15u	3.0m	20n	100n	24	3.0M	24	10kΩ	1.0M†	96	10	70	5C	A390d	DL14bn
18	SE5535K*	30	168m	15u	3.0m	20n	100n	24	3.0M	24	10kΩ	1.0M†	96	10	70	5C	A390b	TO100
19	SE5535N*	30	168m	15u	3.0m	20n	100n	24	3.0M	24	10kΩ	1.0M†	96	10	70	5C	A390c	DL8ao
20	SE5535N-14*	30	168m	15u	3.0m	20n	100n	24	3.0M	24	10kΩ	1.0M†	96	10	70	5C	A390d	DL14aw
21	SG1558T	30	168m	15u†	5.0m‡	200n‡	500n‡	24	300k	24	10kΩ	500k‡	93	500m†	70	5C	A014	TO99
22#	MC1558P	30	168m	15u	6.0m	500n	1.5u	24	300k	24	10kΩ	1.0M†	94	500m†	70	5C	A182	DL8q
23	OP04N	30	170m‡		.75m‡	5.0n‡	50n‡					100 Δ	0.4		85	6F		CH55
24	OP14N	30	170m‡		.75m‡	5.0n‡	50n‡					100 Δ	0.4		85	6F		CH55
25	OP04G	30	170m‡		2.0m‡	5.0n‡	75n‡					50 Δ	0.4		80	6F		CH55
26	OP14G	30	170m‡		2.0m‡	7.5n‡	75n‡					50 Δ	0.4		80	6F		CH55
27	RM747T	30	170m		5.0m	500n	1.5u	24		300k	20	2.0k	1.0M†	94	500m†	70	5C	A403
28	CA747E*	30	170m		6.0mΔ	200n‡	500n‡	24	300k	20	2.0k‡	1.0M†	96	500m†	70	5C	A181c	Δ001AB
29	CA747G*	30	170m		6.0mΔ	200n‡	500n‡	24	300k	20	2.0k‡	1.0M†	96	500m†	70	5C	A181c	Δ001AB
30	CA747T*	30	170m		6.0m	200n‡	500n‡	24	300k	20	2.0k‡	1.0M†	96	500m†	70	5C	A181b	Δ006AF
31	CA1558E*	30	170m		6.0m	200n‡	500n‡	24	300k	24	10kΩ	1.0M†	96	500m†	70	5C	A181a	DL8ad
32	RC4558DE	30	170m		6.0m	200n	500n	24	1.0M	24	10kΩ	3.0M†	86	500m†	70	07		DL8aa
33	RM4558DE	30	170m		6.0m	500n	1.5u	24	1.0M†	24	10kΩ	3.0M†	95	500m†	70	5C		DL8aa
34	RM4558JG	30	170m		6.0m	500n	1.5u	24	300k	24	10kΩ	2.0M†	94	1.5	70	5C	A396b	DL8v
35	RM4558T*	30	170m		6.0m	500n	1.5u	24	1.0M†	24	10kΩ	3.0M†	93	500m†	70	5C		TO99
36	uA747F*	30	170m		6.0m	200n‡	500n‡	30 Δ		24	10kΩ	96	500m†		5C	A154a	DL14bn	
37	uA747K*	30	170m		6.0m	200n‡	500n‡	30 Δ		24	10kΩ	96	500m†		5C	A154c	TO100	
38	uA747MJ	30	170m		6.0m	500n	1.5u	24	300k	24	10kΩ	94	500m†	70	5C	A154a	DL14ah	
39	uA747ML	30	170m		6.0m	500n	1.5u	24	300k	24	10kΩ	94	500m†	70	5C	A154b	CN10q	
40	uA747MW	30	170m		6.0m	500n	1.5u	24	300k	24	10kΩ	94	500m†	70	5C			
41	uA747N*	30	170m		6.0m	200n‡	500n‡	30 Δ		24	10kΩ	96	500m†		5C	A154a	DL14aw	
42	uPC258C*	30	170m		6.0m‡	200n‡	500n‡	24		24	10kΩ	86	1.0 †	70	27		A396b	DL8au
43	uPC1458C*	30	170m		6.0m‡	200n‡	500n‡	24		24	10kΩ	86	1.0 †	70	07		A365a	DL8h
44	uPC4558C*	30	170m		6.0m‡	200n‡	500n‡	24		24	10kΩ	86	1.0 †	70	07		A396b	DL8au
45	CA747CE*	30	170m		7.5mΔ	300n	800n	24	300k	20	2.0k‡	1.0M†	86	500m†	70	07	A181c	Δ001AB
46	CA747CT*	30	170m		7.5m	300n	800n	24	300k	20	2.0k‡	1.0M†	86	500m†	70	07	A181b	Δ006AF
47#	MB3607C	30	170m		7.5m	300n	800n	24	300k	20	2.0k‡	84	800m†	70	07		A348	DL8v
48#	MB3607M	30	170m		7.5m	300n	800n	24	300k	20	2.0k‡	84	800m†	70	07		A348	DL8ap
49#	MB3607PF	30	170m		7.5m	300n	800n	24	300k	20	2.0k‡	84	800m†	70	07		A348	MD8b
50#	MB3608C	30	170m		7.5m	300n	800n	24	300k	20	2.0k‡	84	800m†	70	07		A348a	DL14bh
51#	MB3608M	30	170m		7.5m	300n	800n	24	300k	20	2.0k‡	84	800m†	70	07		A348a	DL14ay
52#	MB3608PF	30	170m		7.5m	300n	800n	24	300k	20	2.0k‡	84	800m†	70	07		A348	MD74b
53	MC1458A	30	170m		7.5m	300n	800n	24	300k	24	2.0k‡	1.1M†	106	300m†	70	07	A014a	DL14ao
54	MC1458F*	30	170m		7.5m	300n	800n	24	2.0M†	24	10kΩ	1.0M†	88	800m†	70	†	A014b	DL14bn
55	MC1458JG	30	170m		7.5m	300n	800n	24	2.0M†	24	10kΩ	1.0M†	86	800m†	70	†	A014b	DL8v
56	MC1458N*	30	170m		7.5m	300n	800n	24	2.0M†	24	10kΩ	1.0M†	88	800m†	70	†	A014c	DL8ao
57	MC1458N-14*	30	170m		7.5m	300n	800n	24	2.0M†	24	10kΩ	1.0M†	88	800m†	70	†	A014b	DL14aw
58	MC1458NG*	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	1.1M†	86	500m†	70	07	A014a	TO99
59	MC1458NL*	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	1.1M†	86	500m†	70	07	A014b	TO116
60	MC1458NP1*	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	1.1M†	86	500m†	70	07	A014c	DL8ac
61	MC1458NP2*	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	1.1M†	86	500m†	70	07	A014b	DL14az
62	MC1458NU*	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	1.1M†	86	500m†	70	07	A014c	DL8s
63	MC1458SG	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	150k‡	86	10	70	07	A367	TO99
64	MC1458SL	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	150k‡	86	10	70	07	A367	DL14ag
65	MC1458SP1	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	150k‡	86	10	70	07	A367	DL8d
66	MC1458SP2	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	150k‡	86	10	70	07	A367	DL14az
67	MC1458SU	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	150k‡	86	10	70	07	A367	DL8s
68	MC1458T	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	1.1M†	86	800m†	70	07	A014a	CN1g
69	MC1458U*	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	1.1M†	86	500m†	70	07	A014c	DL8s
70	MC1458V	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	1.1M†	86	800m†	70	07	A014a	DL8k
71	RC4558JG	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	3.0M†	86	1.0	70	07	A396b	DL8v
72	RC4558NB	30	170m		7.5m	300n	800n	24	30	20	2.0k‡	86	500m†	70	07	A212	DL8ab	
73	RC4558P	30	170m		7.5m	300n	800n	24	300k	24	10kΩ	3.0M†	86	1.0	70	07	A396b	DL8p
74	RC4558T*	30	170m		7.5m	300n	800n	24	30	20	2.0k‡	86	500m†	70	07	A212	TO99	
75	RV747DB*	30	170m		7.5m	300n	800n	24	300k	20	2.0k							

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C			DRAWINGS			
		1] RATED VOLT. (ΔV)	2] MAX IDLE P (W)	OVER OPERATING RANGE		TEMP. RANGE		MIN. @25°C		P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/US)	CMRR (dB)	E O P E	C K T.	O U T - L I N E Δ = M O
				3] DRIFT (V/°C)	4] OFFSET (V)	5] MAX VOLTAGE (V)	6] MAX CURRENT (A)	7] CM RANGE (ΔV)	8] DIFF IMP. (Ω)									
1	OP11G	30	180m	2.5m	50n	500n	500n	20	20	20	2.0M	100	1.0	100	6F		CH57	
2	OP14GR	30	180m	6.0m	200n	500n	500n	20	20	20	2.0M	100	1.0	100	6F		CH55	
3	HA2400T	30	180m	7.0m	100n	400n	400n	20	30m	20	20m	40M	92	15	80	5C	A230	DL16ar
4	HA2404T	30	180m	7.0m	100n	400n	400n	20	30m	20	20m	40M	92	15	80	28	A230	DL16ar
5#	TCAG80D	30	180m	8.0m	30n	100n	100n	26	20	20	1.0k	320k	89	15	70	07	A042K	MD8a
6	HA2405T	30	180m	11m	100n	500n	500n	20	30m	20	20m	40M	92	15	74	07	A230	DL16ar
7	ICL8007CTA	30	180m	6.0m	500n	10p	10p	20	10T	24	10k	1.0M	86	6.0	70	07	A131	CN1f
8	uPC152A	30	180m	200m	40n	10p	10p	17	8.0M	24	10k	80	400m	70	7	28	A363	Δ002AK
9	uA714LHC	30	180m	3.0u	400u	40n	60n	26	26	24	10k	100	250m	100	06	06	A174q	CN1d
10	CA3140AE#1	30	180m	6.0u	3.0m	20p	40p	27	1.5T	26	2.0k	4.5M	86	9.0	70	5C	A378	DL8ad
11	CA3140AS#1	30	180m	6.0u	3.0m	20p	40p	27	1.5T	26	2.0k	4.5M	86	9.0	70	5C	A378	CN46
12	CA3140AT#1	30	180m	6.0u	3.0m	20p	40p	27	1.5T	26	2.0k	4.5M	86	9.0	70	5C	A378	Δ002AL
13	NE5530F*	30	180m	6.0u	6.0m	80n	150n	24	1.0M	24	10k	3.0M	96	12	70	07	A390d	DL14bn
14	NE5530K*	30	180m	6.0u	6.0m	80n	150n	24	1.0M	24	10k	3.0M	96	12	70	07	A390b	TO100
15	NE5530N*	30	180m	6.0u	6.0m	80n	150n	24	1.0M	24	10k	3.0M	96	12	70	07	A423b	DL8ao
16	NE5530N-14*	30	180m	6.0u	6.0m	80n	150n	24	1.0M	24	10k	3.0M	96	12	70	07	A390d	DL14aw
17	NE5535T*	30	180m	6.0u	6.0m	80n	150n	24	1.0M	24	10k	3.0M	96	12	70	07	A390e	CN1g
18	NE5538F*	30	180m	6.0u	6.0m	80n	200n	24	1.0M	24	10k	6.0M	96	60	70	07	A390d	DL16an
19	NE5538K*	30	180m	6.0u	6.0m	80n	200n	24	1.0M	24	10k	6.0M	96	60	70	07	A390b	TO100
20	NE5538N*	30	180m	6.0u	6.0m	80n	200n	24	1.0M	24	10k	6.0M	96	60	70	07	A423b	DL8ao
21	NE5538N-14*	30	180m	6.0u	6.0m	80n	200n	24	1.0M	24	10k	6.0M	96	60	70	07	A390d	DL14aw
22	NE5538T*	30	180m	6.0u	6.0m	80n	200n	24	1.0M	24	10k	6.0M	96	60	70	07	A390e	TO99
23	CA3140E#1	30	180m	8.0u	10m	30p	50p	27	1.5T	26	2.0k	4.5M	86	9.0	70	5C	A378	DL8ad
24	CA3140H	30	180m	8.0u	10m	30p	50p	27	1.5T	26	2.0k	4.5M	86	9.0	70	5C	A378	CH42
25	CA3140S#1	30	180m	8.0u	15m	30p	50p	27	1.5T	26	2.0k	4.5M	86	9.0	70	5C	A378	CN46
26	CA3140T#1	30	180m	8.0u	15m	30p	50p	27	1.5T	26	2.0k	4.5M	86	9.0	70	5C	A378	Δ002AL
27	OP09EY*	30	180m	10u	80n	30n	350n	24	200k	22	2.0k	1.5M	100	700m	100	07	A396e	DL14q
28	OP09EP*	30	180m	10u	80n	30n	350n	26	400k	22	2.0k	1.5M	100	700m	100	07	A396e	DL8i
29	OP11EP*	30	180m	10u	800u	30n	350n	26	400k	22	2.0k	1.5M	100	700m	100	07	A362	DL8j
30	OP11EY*	30	180m	10u	800u	30n	350n	24	200k	22	2.0k	1.5M	100	700m	100	07	A308	DL14q
31	OP09AY*	30	180m	10u	1.0m	40n	375n	24	200k	22	2.0k	1.5M	100	700m	100	5C	A396e	DL14q
32	OP11AY*	30	180m	10u	1.0m	40n	375n	24	200k	22	2.0k	1.5M	100	700m	100	5C	A308	DL14q
33	UA709AMJ	30	180m	10u	3.0m	50n	200n	16	350k	24	10k	93	80	5C	A003	A003	DL14ah	
34	MA322	30	180m	10u	4.0m	100n	600n	26	50k	26	40M	100	20	90	57		DL8ah	
35	MA319	30	180m	10u	5.0m	30n	100n	26	3.0M	26	30m	5.0M	100	50	80	57		DL8ah
36	LH2101AF	30	180m	15u	3.0m	20n	100n	24	1.5M	24	10k	94	10	80	5C	A220	FP28a	
37	LH2101AJ	30	180m	15u	3.0m	20n	100n	24	1.5M	24	10k	94	80	5C	A335	DL16bd		
38	LH2201AD	30	180m	15u	3.0m	20n	100n	24	1.5M	24	10k	94	80	28	A220	DL16u		
39	LH2201AF	30	180m	15u	3.0m	20n	100n	24	1.5M	24	10k	94	80	28	A220	FP28a		
40	OP09FP*	30	180m	15u	3.0m	60n	550n	26	400k	22	2.0k	1.5M	100	700m	100	07	A396e	DL8i
41	OP09FY*	30	180m	15u	3.0m	60n	550n	24	200k	22	2.0k	1.5M	100	700m	100	07	A396e	DL14q
42	OP11FP*	30	180m	15u	3.0m	60n	550n	26	400k	22	2.0k	1.5M	100	700m	100	07	A362	DL8j
43	OP11FY*	30	180m	15u	3.0m	60n	550n	24	200k	22	2.0k	1.5M	100	700m	100	07	A308	DL14q
44	SE5530F*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	3.0M	96	18	70	5C	A390d	DL14bn
45	SE5530K*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	3.0M	96	18	70	5C	A390b	TO100
46	SE5530N*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	3.0M	96	18	70	5C	A423b	DL8ao
47	SE5530N-14*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	3.0M	96	18	70	5C	A390d	DL14aw
48	SE5535T*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	3.0M	96	18	70	5C	A390e	CN1g
49	SE5538F*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	6.0M	96	40	70	5C	A390d	DL14bn
50	SE5538K*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	6.0M	96	40	70	5C	A390b	TO100
51	SE5538N*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	6.0M	96	40	70	5C	A423b	DL8ao
52	SE5538N-14*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	6.0M	96	40	70	5C	A390d	DL14aw
53	SE5538T*	30	180m	15u	3.0m	20n	100n	24	3.0M	24	10k	6.0M	96	40	70	5C	A390e	TO99
54	OP09BY*	30	180m	15u	3.5m	80n	650n	24	200k	22	2.0k	1.5M	100	700m	100	5C	A396e	DL14q
55	OP11BY*	30	180m	15u	3.5m	80n	650n	24	200k	22	2.0k	1.5M	100	700m	100	5C	A308	DL14q
56	HA2-2500-2	30	180m	20u	8.0m	50n	200n	20	25M	20	20m	12M	86	25	80	5C	A231	TO99
57	HA9-2500-2	30	180m	20u	8.0m	50n	200n	20	25M	20	20m	12M	86	25	80	5C	A231a	TO86
58	HA2-2502-2	30	180m	20u	10m	100n	250n	20	20M	20	20m	12M	83	20	74	5C	A231	TO99
59	HA2-2505-5	30	180m	20u	10m	100n	250n	20	20M	20	20m	12M	83	20	74	07	A231	TO99
60	HA9-2502-2	30	180m	20u	10m	100n	250n	20	20M	20	20m	12M	83	20	74	5C	A231a	TO86
61	HA9-2505-5	30	180m	20u	10m	100n	250n	20	20M	20	20m	12M	83	20	74	07	A231a	TO86
62	HA2-2510-2	30	180m	20u	11m	50n	400n	20	50M	20	20m	12M	86	50	80	5C	A231	TO99
63	HA2-2520-2	30	180m	20u	11m	50n	200n	20	50M	20	20m	30M	80	100	80	5C	A231	TO99
64	HA9-2510-2	30	180m	20u	11m	50n	400n	20	50M	20	20m	12M	86	50	80	5C	A231a	TO86
65	HA9-2520-2	30	180m	20u	11m	50n	200n	20	50M	20	20m	30M	80	100	80	5C	A231a	TO86
66	HA2520	30	180m	20u	11m	50n	400n	20	50M	20	20m	20M	80	100	80	5C	A231	TO99
67	AD509JH	30	180m	20u	14m	100n	500n	20	40M	20	2.0k	20M	78	80	74	07	A071	TO99
68	TS2427-2	30	180m	25u	3.0m	20p	60p	11	10	10	20m	70k	80	6.0	80	48		DL14Z
69	HA2522	30	180m	25u	14m	100n	500n	20	40M	20	20m	20M	77	80	74	5C	A231	TO99
70	1322	30	180m	30u	10m	50n	250n	20	40M	20	20m	20M	76	80	90	7		TO99
71	LH2301AD	30	180m	30u	10m	70n	300n	24	500k	24	10k	88	80	70	07	A220	DL16u	
72	LH2301AF	30	180m	30u	10m	70n	300n	24	500k	24	10k	88	80	70	07	A220	FP28a	
73	LH2301AFZ*	30	180m	30u	10m	70n	300n	24	500k	24	10k	88	80	70	07	A220	DL16ba	
74	AD509KH	30	180m	30u	11m	50n	400n	20	50M	20	2.0k	20M	80	80	80	07	A071	TO99
75	AD509SH	30	180m	30u	11m	50n	400n	20	50M	20	2.0k	20M	80	100	80	5C	A071	TO99
76	3507J	30	180m</															

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS								MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS	
		RATED	SPECS	OVER OPERATING		TEMP. RANGE		MIN. @25°C		MIN. OUTPUT		3dB BW	O.L. VOLT. GAIN	SLEW RATE	CMRR	T C O P E	D KCT.	OUT-LINE Δ=MO	
		[1] TOT. VOLT. (ΔV)	[2] MAX IDLE P (W)	[3] DRIFT (V/°C)	[4] OFST (V)	MAX VOLTAGE	MAX CURRENT	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	(Hz)	(dB)	(V/μS)	(dB)	+	-	
1#	SFC2709ET	30	198m	20u	7.5m	300n	750n	16	70k	24	10k	87	250m	65	28	A003	TO116		
2#	SFC2709T	30	198m	20u	7.5m	300n	750n	16	70k	24	10k	87	250m	65	28	A003b	TO99		
3	AD507JH	30	200m		5.0m	25n	25n	22	40M	24	5.0m	35M	96	74					
4	XR4741M*	30	200m		5.0m	75n	325n	24	5.0M	20	2.0k	94	1.6	80	5C	A308	DL14bg		
5	XR4739CN*	30	200m		6.0m	200n	500n	24	300k	20	2.0k	86	1.0	70	07	A399	DL14bg		
6	XR4739CP*	30	200m		6.0m	200n	500n	24	300k	20	2.0k	86	1.0	70	07	A399	DL14bp		
7	XR4741CN*	30	200m		6.5m	100n	400n	24	5.0M	20	2.0k	88	1.6	80	07	A308	DL14bg		
8	XR4741CP*	30	200m		6.5m	100n	400n	24	5.0M	20	2.0k	88	1.6	80	07	A308	DL14bp		
9#	M51709T	30	200m		7.5m	500n	1.5u	1.6	50k	24	10k	83		65	27	A003b	TO78		
10#	MA709CJ	30	200m		10m	750n	2.0u	16	50k	24	10k	84		65	5C	A003	TO116		
11#	MA709CJG	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	5C	A003a	DL9v		
12#	MA709CN	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003	DL14x		
13#	MA709CP	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003	DL8d		
14#	MB3602C	30	200m		10m	750n	2.0u	15	50k	24	10k	84		65	07	A003	DL14bh		
15#	MB3602M	30	200m		10m	750n	2.0u	15	50k	24	10k	84		65	07	A003	DL14ay		
16#	MB3612C	30	200m		10m	750n	2.0u	15	50k	24	10k	84	100m	65	06	A003a	DL8aq		
17#	MB3612M	30	200m		10m	750n	2.0u	15	50k	24	10k	84	100m	65	06	A003a	DL8az		
18	MC1709CG	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A043	CN1p		
19	MC1709CL	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A043	TO116		
20	MC1709CP1	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A043	DL8ac		
21	MC1709CP2	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A043	DL14az		
22	RC709DC	30	200m		10m	750n	2.0u	20	250k	24	10k	83	400m	65	07	A003	DL14av		
23	RC709T	30	200m		10m	750n	2.0u	20	250k	24	10k	83	400m	65	07	A003b	TO99		
24	SA709CF	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	48	A003	DL14bn		
25	SA709CN	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	48	A003a	DL8ao		
26	SA709CN-14	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	48	A003	DL14aw		
27	uA709A	30	200m		10m	750n	2.0u	16	50k	24	2.0k	83		65	07	A043	TO116		
28	uA709CJ	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003	DL14ah		
29	uA709CJG	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003a	DL8v		
30	uA709CL	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003b	CN1k		
31	uA709CN	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003	DL14bw		
32	uA709CN-14	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003	DL14aw		
33	uA709CP	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003a	DL8p		
34	uA709CT	30	200m		10m	750n	2.0u	16	50k	24	2.0k	83		65	07	A003b	TO99		
35	uA709CU	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003	A004AE		
36	uA709CV	30	200m		10m	750n	2.0u	16	50k	24	2.0k	83		65	07	A043	DL8k		
37	uA709HC	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003b	CN1d		
38	uA709CJ	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A003	DL14ah		
39#	ZLD709C	30	200m		10m	750n	2.0u	16	50k	20		83		65	07	A081	TO78		
40#	ZLD709CE	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A081	TO116		
41#	ZLD709CF	30	200m		10m	750n	2.0u	16	50k	20		83		65	07	A081	FP2		
42#	ZLD709CG	30	200m		10m	750n	2.0u	16	50k	24	10k	83		65	07	A081	FP2		
43	3002	30	200m		600n	200p	10n	30	300M	28	10m	2.0M	146	500m	100	5C	A062	CN83	
44	AD507KH	30	200m		15u	15n	15n	22	40M	20	5.0m	100	25	80	†		TO99		
45	MC1439G	30	201m		5.0u	7.5m	150n	1.0u	100k	20	2.0k	84	4.2	80	07	A037	TO99		
46	MC1439P1	30	201m		5.0u	7.5m	150n	1.0u	100k	20	2.0k	84	4.2	80	07	A037	TO116		
47	MC1439P2	30	201m		5.0u	7.5m	150n	1.0u	100k	20	2.0k	84	4.2	80	07	A037	DL8d		
48	MC1439P2	30	201m		5.0u	7.5m	150n	1.0u	100k	20	2.0k	84	4.2	80	07	A037	TO116		
49	uPC458C	30	210m		5.0m	50n	300n	24	10k	24	10k	88	1.6	80	27	A396d	A001AA		
50	uPC4741C*	30	210m		5.0m	50n	300n	24	300k	20	2.0k	88	1.6	80	07	A396d	A001AA		
51	RM4531DC	30	210m		6.0m	500n	1.5u	20	30	20	2.0k	93	35	70	5C	A211	DL14av		
52	RM4531T	30	210m		6.0m	500n	1.5u	20	30	20	2.0k	93	35	70	5C	A211	DL14av		
53	SE5314CL	30	210m		6.0m	500n	1.5u	20	20M	24	2.0k	93	35	70	5C	A211	CN1g		
54	MC4741CL	30	210m		7.5m	300n	800n	24	300k	24	10k	86	500m	70	07	A014	TO116		
55	MC4741CP	30	210m		7.5m	300n	800n	24	300k	24	10k	86	500m	70	07	A014	DL14az		
56	uA715DM	30	210m		7.5m	800n	4.0u	7.40	1.0M	20	2.0k	84	70	74	5C	A106	DL14br		
57	uA715HM	30	210m		7.5m	800n	4.0u	7.40	1.0M	20	2.0k	84	70	74	5C	A106	TO100		
58#	TC688	30	210m		8.0m	30n	100n	26	1.0k	22	1.0k	320k	89	15	70	07	A042k	TO99	
59#	TC680B	30	210m		8.0m	30n	100n	26	1.0k	22	1.0k	320k	89	15	70	07	A042k	DL8e	
60	OP16EJ	30	210m	5.0u	750u	700p	900p	21	1.0T	22	2.0k	19M	100	45	86	07	A174	TO99	
61	OP17EJ	30	210m	5.0u	750u	700p	900p	21	1.0T	22	2.0k	11M	100	45	86	07	A174	TO99	
62	OP16AJ	30	210m	5.0u	900u	8.5n	11n	21	1.0T	22	2.0k	19M	100	18	86	5C	A174	TO99	
63	OP17AJ	30	210m	5.0u	900u	8.5n	11n	21	1.0T	22	2.0k	11M	100	18	86	5C	A174	TO99	
64	LF156AT	30	210m	5.0u	2.0m	10p	50p	22	1.0T	24	10k	4.0M	94	10	85	5C	A394	CN1g	
65	LF157AT	30	210m	5.0u	2.0m	10p	50p	22	1.0T	24	10k	4.0M	94	10	85	5C	A394	CN1g	
66	PM356AJ	30	210m	5.0u	2.3m	1.0n	5.0n	22	1.0T	20	2.0k	4.0M	94	10	85	07	A174	TO99	
67	PM357AJ	30	210m	5.0u	2.3m	1.0n	5.0n	22	1.0T	20	2.0k	4.0M	94	10	85	07	A174	TO99	
68	LD156A	30	210m	5.0u	2.5m	10p	50p	22	1.0T	24	10k	4.5M	106	10	85	5C	A394	CH0	
69	LD156AH	30	210m	5.0u	2.5m	10p	50p	22	1.0T	24	10k	4.0M	94	10	85	5C	A349a	CN1d	
70	LF157AH	30	210m	5.0u	2.5m	10p	50p	22	1.0T	24	10k	4.0M	94	10	85	5C	A349a	CN1d	
71	PM156AJ	30	210m	5.0u	2.5m	10n	25n	22	1.0T	20	2.0k	4.0M	94	10	85	5C	A174	TO99	
72	PM157AJ	30	210m	5.0u	2.5m	10n	25n	22	1.0T	20	2.0k	4.0M	94	10	85	5C	A174	TO99	
73	LF156T	30	210m	5.0u	5.0m	20p	100p	22	1.0T	24	10k	5.0M	94	7.5	85	5C	A394	CN1g	
74	LF157T	30	210m	5.0u	5.0m	20p	100p	22	1.0T	24	10k	5.0M	94	30	85	5C	A394	CN1g	
75	LF256T	30	210m	5.0u	5.0m	20p	100p	22	1.0T	24	10k	5.0M	94	7.5	85	2B	A394	CN1g	
76	LF257T	30	210m	5.0u	5.0m	20p	100p	22	1.0T	24	10k	5.0M	94	7.5	85	2B	A394	CN1g	
77	RV4156DB*	30	210m	5.0u	5.0m	50n	300n	24	5.0M	20	10m	2.8M	88	1.3	80	48		DL14au	
78	RV4156DC*	30	210m	5.0u	5.0m	50n	300n	24	5.0M	20	10m	2.8M	88	1.3	80	48		DL14av	
79	HA3-4741-5	30	210m	5.0u	6.5m	75n	325n	24	500k	20	10m	3.5M	96	1.6	80	07	A308	DL14v	
80	HA3-4741-5DB*	30	210m	5.0u	6.5m	75n	325n	24	500k	20	10m	3.5							

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS							MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				T C O E M P D E	DRAWINGS
		RATED	SPECS	OVER OPERATING TEMP. RANGE			MIN. @25°C				P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)		
				MAX VOLTAGE	MAX CURRENT	BIAS	CM RANGE (ΔV)	DIFF IMP. (Ω)	3 DRFT (V/°C)	4 JOFST (V)									OFFSET (A)	BIAS (A)
1	MC3403J*	30	210m	10u†	12m	200n	800n	13	300k	24	10kΩ	1.0MΩ†	86	600m†	70	07	A362	DL14ah
2	MC3403L*	30	210m	10u†	12m	200n	800n	28	1.0M†	24	10kΩ	9.0kΩ†	86	600m†	70	07	A292	TO116
3	MC3403N*	30	210m	10u†	12m	200n	800n	13	300k	24	10kΩ	1.0MΩ†	86	600m†	70	07	A362	Δ001AA
4	MC3403P*	30	210m	10u†	12m	200n	800n	28	1.0M†	24	10kΩ	9.0kΩ†	86	600m†	70	07	A292	DL14az
5	AD518KH	30	210m	15u	6.0m	100n	400n	23	500k	24	20m	12M†	94	50	80	07	A174B	TO99
6	MC3405L*	30	210m	15u†	12m	200n	800n	28	500k	20	2.0kΩ	1.0	84	600m†	70	07	A415	TO116
7	MC3405P*	30	210m	15u†	12m	200n	800n	28	500k	20	2.0kΩ	1.0	84	600m†	70	07	A415	DL14az
8	JANM38510/11003BCA*	30	210m	20u	5.0m	75n	325n	30		32	10kΩ		94	800m	76	5C	A396d	DL14bb
9	JANM38510/11003BCB*	30	210m	20u	5.0m	75n	325n	30		32	10kΩ		94	800m	76	5C	A396d	DL14bb
10	JANM38510/11003BCC*	30	210m	20u	5.0m	75n	325n	30		32	10kΩ		94	800m	76	5C	A396d	DL14bb
11	AD518SH#mil	30	210m	20u	6.0m	100n	400n	23	500k	24	20m	12M†	94	50	80	5C	A174B	TO99
12	3523K	30	210m†	25u	500u§	100f§	250f§	20	1.0T†	20	20m	1.0M†	100	600m	80	5C	A255	TO99
13	3523L	30	210m†	25u	500u§	50f§	100f§	20	1.0T†	20	20m	1.0M†	100	600m	80	5C	A255	TO99
14	AD506KH	30	210m	25u	1.0m	5.0p	10p	20	100G	24	5.0m	1.0M†	74	5.0	80	07	A489	TO99
15	AD528K	30	210m	25u	2.0m	2.0p§	15p§	30	1.0T†	20	20m†	10M†	94	50	80	07	A174b	TO99
16	AD528S	30	210m	25u	3.0m	2.0p§	15p§	30	1.0T†	20	20m†	10M†	94	50	80	5C	A174b	TO99
17	AD503K	30	210m	25u	20m§	10p§	10p§	20	100G	20	2kΩ	1.0M§	94	3.0	80	07	A489	CN1f
18	AD503KH	30	210m	25u	20m	5.0p	10p	20	100G	24	5.0m	1.0M†	74	5.0	80	07	A489	TO99
19	AD540KH	30	210m	25u§	20m§	25p§	20	10G†	24	10kΩ	1.0M†	94	6.0	70	07	A174B	TO99	
20	AD523KH	30	210m	30u	20m	500f	20	100G	24	5.0m	500k	72	3.0	80	07	A174B	TO99	
21	3523J	30	210m†	50u	1.0m§	200f§	500f§	20	1.0T†	20	20m	1.0M†	100	600m	80	5C	A255	TO99
22	AD506SH	30	210m	50u	1.0m	5.0p	10p	20	100G	24	5.0m	1.0M†	74	5.0	80	5C	A174b	TO99
23	AD528J	30	210m	50u	5.0m	5.0p§	30p§	30	1.0T†	20	20m†	10M†	88	50	70	07	A174b	TO99
24	AD503S	30	210m	50u	20m§	10p§	10p§	20	100G	20	2kΩ	1.0M§	94	3.0	80	07	A489	CN1f
25	AD503SH	30	210m	50u	20m	5.0p	10p	20	100G	24	5.0m	1.0M†	74	5.0	80	5C	A174B	TO99
26	AD540SH#mil	30	210m	50u§	20m§	25p§	20	10G†	24	10kΩ	1.0M†	94	6.0	70	5C	A174B	TO99	
27	AD523LH	30	210m	60u	20m	250f	20	100G	24	5.0m	500k	72	3.0	80	07	A174B	TO99	
28	AD506JH	30	210m	75u	3.0m	10p	15p	20	100G	24	5.0m	1.0M†	66	5.0	70	07	A489	TO99
29	AD503J	30	210m	75u	50m§	15p§	15p§	20	100G	20	2kΩ	1.0M§	86	3.0	70	07	A489	CN1f
30	AD503JH	30	210m	75u	50m	10p	15p	20	100G	24	5.0m	1.0M†	66	5.0	70	07	A489	TO99
31	AD540JH	30	210m	75u§	50m§	50p§	20	10G†	24	10kΩ	1.0M†	86	6.0	70	07	A174B	TO99	
32	AD523JH	30	210m	90u	50m	1.0p	20	100G	24	5.0m	500k	66	3.0	70	07	A174B	TO99	
33	RC4739DB*	30	220m		7.5m	300n	800n	24	300k	20	2.0kΩ	3.0M†	86	1.0	70	07	A399	DL14au
34#	SFC2741GC	30	220m	1.5u†	7.5m	200n§	800n	20	300k	20	2.0kΩ	20	0.5	70	07	A373c	DL8bf	
35#	SFC2741UC	30	220m	1.5u†	7.5m	200n§	800n	20	300k	20	2.0kΩ	20	0.5	70	07	A373c	MD8a	
36	MC1537L	30	225m	1.5u†	6.0m	500n	1.5u	16	150k	24	10kΩ	200k	88	250m†	70	5C	A036	DL14ag
37	RM1537DC	30	225m	1.5u	6.0m	500n	1.5u	16	150k	24	10kΩ	200k	88	250m†	70	5C	A036	TO116
38	MC1437L	30	225m	1.5u†	10m	750n	2.0u	16	50k	24	10kΩ	200k	84	250m†	65	07	A036	DL14ag
39	MC1437P	30	225m	1.5u†	10m	750n	2.0u	16	50k	24	10kΩ	200k	84	250m†	65	07	A036	DL14s
40	RC1437DB	30	225m	1.5u	10m	750n	2.0u	16	50k	24	10kΩ	200k	84	250m†	65	07	A036	TO116
41	RC1437DC	30	225m	1.5u	10m	750n	2.0u	16	50k	24	10kΩ	200k	84	250m†	65	07	A036	TO116
42	AM453-2C	30	240m		4.0m§	300n§	1.5u§	24	100k†	24	40m	10M†	100	13	80	5C	A174r	TO99
43	AM453-2M	30	240m		4.0m§	300n§	1.5u§	24	100k†	24	40m	10M†	100	13	80	5C	A174r	TO99
44#	SFC2118M	30	240m		4.0m	50n	250n	23	1.0M	24	2.0kΩ	94	50	80	5C	A036	TO99	
45#	SFC2218	30	240m		4.0m	50n	250n	23	1.0M	24	2.0kΩ	94	50	80	5C	A036	TO99	
46#	TDA1034	30	240m		4.0m§	300n§	1.5u§	25	30k	24	600	70k	90	6.0	70	28	A386	TO99
47#	TDA1034B	30	240m		4.0m§	300n§	1.5u§	25	30k	24	600	70k	90	6.0	70	28	A386	DL8ai
48#	TDA1034BN	30	240m		4.0m§	200n§	.80u§	25	30k	24	600	70k	90	6.0	70	28	A386	DL8ai
49#	TDA1034D	30	240m		4.0m§	300n§	1.5u§	25	30k	24	600	70k	90	6.0	70	28	A386	MD8a
50#	TDA1034DN	30	240m		4.0m§	200n§	.80u§	25	30k	24	600	70k	90	6.0	70	28	A386	MD8a
51#	TDA1034N	30	240m		4.0m§	200n§	.80u§	25	30k	24	600	70k	90	6.0	70	28	A386	TO99
52	NE5534AJG	30	240m		5.0m	400n	2.0u	24	30k	24	600	10M†	88	13	70	07	A409	DL8v
53	NE5534AP	30	240m		5.0m	400n	2.0u	24	30k	24	600	10M†	88	13	70	07	A409	DL8p
54	NE5534AT	30	240m		5.0m	400n	2.0u	24	30k	24	600	10M†	88	13	70	06	A409a	CN1g
55	NE5534JG	30	240m		5.0m	400n	2.0u	24	30k	24	600	10M†	88	13	70	07	A409	DL8v
56	NE5534P	30	240m		5.0m	400n	2.0u	24	30k	24	600	10M†	88	13	70	07	A409	DL8p
57	NE5534T	30	240m		5.0m	400n	2.0u	24	30k	24	600	10M†	88	13	70	06	A409a	CN1g
58	RC5534ADE	30	240m		5.0m	300n	2.0u	24	20	24	20	10M†	94	13	80	07	A486	DL8aw
59	RC5534ANB	30	240m		5.0m	300n	2.0u	24	20	24	20	10M†	94	13	80	07	A486	8-32
60	RC5534AT	30	240m		5.0m	300n	2.0u	24	20	24	20	10M†	94	13	80	07	A486a	CN1p
61	RC5534DE	30	240m		5.0m	300n	2.0u	24	20	24	20	10M†	94	13	80	07	A486	DL8aw
62	RC5534NB	30	240m		5.0m	300n	2.0u	24	20	24	20	10M†	94	13	80	07	A486	8-32
63	RC5534T	30	240m		5.0m	300n	2.0u	24	20	24	20	10M†	94	13	80	07	A486a	CN1p
64	LM118D	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kΩ	15M†	93	50	80	5C	A354c	DL14cc
65	LM118DE	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kΩ	15M	96	50	80	5C	A354	DL8aa
66	LM118H0	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kΩ	15M†	93	50	80	5C	A354	TO99
67	LM118H	30	240m															

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				T O		DRAWINGS	
		1] TOT. VOLT. (ΔV)	2] MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	E M P E	C K T.	O U T - L I N E Δ = M O	
				3] DRIFT (V/°C)	4] OFFSET (V)	MAX VOLTAGE	OFFSET (A)												BIAS (A)
1	UA747FC	30	300m	5.0m	200n	500n	22	30M	24	10k	100m	100k	50	70	07	A241	FP2w		
2	HA2620	30	300m	6.0m	35n	35n	22	30M	20	30M	100m	100k	25	80	Δ	SC A371	TO99		
3	RM4136DC	30	300m	6.0m	500n	500n	30	300k	20	2.0k	100m	86	1.0	70	07	A371	DL14av		
4	HA2602	30	300m	7m	60n	60n	22	40M	20	20M	12M	80k	4.0	74	Δ	SC A371	TO99		
5	HA2605	30	300m	7m	40n	40n	22	40M	20	20M	12M	80k	4.0	74	Δ	SC A371	TO99		
6	HA2622	30	300m	7.0m	60n	60n	22	40M	20	20M	100M	80k	20	74	Δ	SC A371	TO99		
7	HA2625	30	300m	7.0m	40n	40n	22	40M	20	20M	100M	80k	20	74	Δ	SC A371	TO99		
8	NE531H	30	300m	7.5m	300n	2.0u	20	20M	20	2.0k	500k	84	35	70	07	A422	8-18b		
9	NE531N	30	300m	7.5m	300n	2.0u	20	20M	20	2.0k	500k	86	35	70	07	A422	DL9a		
10	NE531T	30	300m	7.5m	300n	2.0u	20	20M	20	2.0k	500k	86	35	70	07	A422	CN1g		
11	NE531V	30	300m	7.5m	300n	2.0u	20	20M	20	2.0k	500k	86	35	70	07	A422	DL8k		
12	RC4136DB	30	300m	7.5m	300n	800n	30	300k	20	2.0k	500k	86	1.0	70	07	A210	DL14au		
13	RC4136DC	30	300m	7.5m	300n	800n	30	300k	20	2.0k	500k	86	1.0	70	07	A210	DL14av		
14	RC4531NB	30	300m	7.5m	300n	2.0u	20	30	20	2.0k	500k	86	35	70	07	A211	DL8ab		
15	RC4531T	30	300m	7.5m	300n	2.0u	20	30	20	2.0k	500k	86	35	70	07	A211	TO99		
16#	SFC2458UC*	30	300m	7.5m	200n	500n	20	40m	24	2.0k	12m	15	0.8	70	07	A292a	MD8a		
17	HA2607	30	300m	8m	50n	50n	20	40m	20	2.0k	100m	88	17	74	07	A373a	DL8ax		
18	HA2627	30	300m	8m	50n	50n	20	40m	20	2.0k	100m	88	17	74	07	A373a	DL8ax		
19#	SFC2318EC	30	300m	10m	200n	600n	23	500k	23	2.0k	15M	88	30	70	07	A106	TO116		
20	uA715DC	30	300m	10m	750n	7.5u	28	1.0M	20	2.0k	80	70	74	07	A106	DL14br			
21	uA715HC	30	300m	10m	750n	7.5u	28	1.0M	20	2.0k	80	70	74	07	A106	TO100			
22	uPC159A	30	300m	10m	200n	500n	23	500k	24	2.0k	15M	88	50	70	28	A354	Δ002AK		
23	LM318DE	30	300m	15m	300n	750n	23	500k	24	2.0k	15M	87	50	70	07	A354	DL8aa		
24	LM318H	30	300m	15m	300n	750n	23	500k	24	2.0k	15M	87	50	70	07	A354b	CN1d		
25	LM318J	30	300m	15m	300n	750n	23	500k	24	2.0k	15M	88	50	70	07	A354c	DL14cd		
26	LM318J-8	30	300m	15m	300n	750n	23	500k	24	2.0k	15M	88	50	70	07	A354	DL8aq		
27	LM318JG	30	300m	15m	300n	750n	23	500k	24	2.0k	15M	87	50	70	07	A354	DL8v		
28	LM318N	30	300m	15m	300n	750n	23	500k	24	2.0k	15M	87	50	70	07	A354a	DL8ah		
29	LM318N	30	300m	15m	300n	750n	23	500k	24	2.0k	15M	88	50	70	07	A354c	Δ001AA		
30	LM318P	30	300m	15m	300n	1.0u	23	500k	24	2.0k	15M	87	50	70	07	A354	DL14j		
31	LM318U	30	300m	15m	300n	750n	23	500k	24	2.0k	15M	88	50	70	07	A354b	Δ004AE		
32	uA749DM	30	300m	3.0u	6.0m	1.0u	24	100k	26	1.0T	20m	86	2.0	70	07	A457c	DL14br		
33	AM410-2M	30	300m	5.0u	1.0m	1.0u	20	1.0T	24	2.0k	18M	80	8.0	85	Δ	SC	TO99		
34	AM411-2M	30	300m	5.0u	1.0m	1.0u	22	1.0T	24	2.0k	60M	84	10	85	07	A453	TO99		
35	LF356AT	30	300m	5.0u	2.0m	10p	22	1.0T	24	10k	4.0M	94	10	85	07	A394	CN1g		
36	LF357AT	30	300m	5.0u	2.0m	10p	22	1.0T	24	10k	4.0M	94	10	85	07	A394	CN1g		
37	LD356A	30	300m	5.0u	2.3m	10p	22	1.0T	24	10k	4.5M	106	10	85	07	A361	CH0		
38	LF356AH	30	300m	5.0u	2.3m	10p	22	1.0T	24	10k	4.0M	94	10	85	07	A349a	CN1d		
39	LF357AH	30	300m	5.0u	2.3m	10p	22	1.0T	24	10k	4.5M	106	10	85	07	A349a	CN1d		
40	OP215CP	30	300m	5.0u	4.0m	100p	300	1.0T	24	2.0k	3.0M	75	5.0	80	07	A371	TO99		
41	HA2600	30	300m	5.0u	6m	30n	22	100M	20	30M	12M	100k	4.3	80	Δ	SC	TO99		
42	LF356T	30	300m	5.0u	10m	50p	20	1.0T	24	10k	5.0M	88	12	80	07	A394	CN1g		
43	LF357T	30	300m	5.0u	10m	50p	20	1.0T	24	10k	5.0M	88	12	80	07	A394	CN1g		
44	LD356	30	300m	5.0u	13m	50p	22	1.0T	24	10k	5.0M	106	12	80	07	A361	CH0		
45	LF356	30	300m	5.0u	13m	50p	22	1.0T	24	10k	5.0M	88	12	80	07	A361	CN1d		
46	LF356H	30	300m	5.0u	13m	50p	20	1.0T	24	10k	5.0M	88	12	80	07	A349a	CN1d		
47	LF356J	30	300m	5.0u	13m	2.0n	20	1.0T	24	10k	5.0M	88	12	80	07	A361	DL8e		
48	LF356N	30	300m	5.0u	13m	50p	20	1.0T	24	10k	5.0M	88	12	80	07	A361	DL8ah		
49	LF357CP	30	300m	5.0u	13m	50p	20	1.0T	24	10k	20M	88	50	80	07	A014a	MD8j		
50	LF357H	30	300m	5.0u	13m	50p	20	1.0T	24	10k	20M	88	50	80	07	A349a	CN1d		
51	LF357J	30	300m	5.0u	13m	2.0n	20	1.0T	24	10k	20M	85	30	80	07	A361	DL8e		
52	LF357N	30	300m	5.0u	13m	50p	20	1.0T	24	10k	20M	88	50	80	07	A361	DL8ah		
53	MA357N	30	300m	5.0u	13m	50p	20	1.0T	24	30M	2.5M	88	50	80	07	A174	TO99		
54	PM357J	30	300m	5.0u	13m	2.0n	20	1.0T	20	2.0k	5.0M	88	50	80	07	A174	TO99		
55	PM357J	30	300m	5.0u	13m	2.0n	20	1.0T	20	2.0k	5.0M	88	50	80	07	A174	TO99		
56#	SFC2709APM	30	300m	6.0u	6.0m	200n	500n	20	20	2.0k	20M	250m	70	70	SC	A003c	TO91		
57#	SFC2709JM	30	300m	6.0u	6.0m	200n	500n	20	20	2.0k	20M	250m	70	70	SC	A003	TO116		
58#	SFC2709KM	30	300m	6.0u	6.0m	200n	500n	20	20	2.0k	20M	250m	70	70	SC	A003	TO116		
59	MA310	30	300m	7.0u	6.0m	15n	70n	24	26	10k	3.0M	106	70	80	07	A014a	MD8j		
60	TL074AMJ*	30	300m	10u	5.0m	2.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396d	DL14ah		
61	TL074BCJ*	30	300m	10u	5.0m	2.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396d	DL14ah		
62	TL074BCN*	30	300m	10u	5.0m	2.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396d	Δ001AA		
63	TL075BCJ*	30	300m	10u	5.0m	2.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396e	DL14ah		
64	TL075BCN*	30	300m	10u	5.0m	2.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396e	Δ001AA		
65	TL075BCJ*	30	300m	10u	7.5m	2.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396d	DL14ah		
66	TL074ACN*	30	300m	10u	7.5m	2.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396d	Δ001AA		
67	TL075ACJ*	30	300m	10u	7.5m	2.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396e	DL14ah		
68	TL075ACN*	30	300m	10u	7.5m	2.0n	24	1.0T	24	10k	3.0M	94	13	80	07	A396e	Δ001AA		
69	TL074AJ*	30	300m	10u	9.0m	1.0n	20	1.0T	24	10k	3.0M	94	13	80	28	A396d	DL14ah		
70	TL074AJ*	30	300m	10u	9.0m	1.0n	20	1.0T	24	10k	3.0M	94	13	80	28	A396d	Δ001AA		
71	TL074AJ*	30	300m	10u	9.0m	1.0n	20	1.0T	24	10k	3.0M	94	13	80	28	A396d	DL14ah		
72	TL075AJ*	30	300m	10u	9.0m	1.0n	20	1.0T	24	10k	3.0M	94	13	80	28	A396d	DL14ah		
73	TL075AJ*	30	300m	10u	9.0m	1.0n	20	1.0T	24	10k	3.0M	94	13	80	28	A396e	Δ001AA		
74	TL075AJ*	30	300m	10u	9.0m	1.0n	20	1.0T	24	10k	3.0M	94	13	80	28	A396e	DL14ah		
75	AD518	30	300m	10u	10m	300n	75n	30	50M	24	12M	25k	50	70	07	A396e	CH16p		
76	TL074CJ*	30	300m	10u	13m	2.0n	20	1.0T	24	10k	3.0M	88	13	70	07	A396d	DL14ah		
77	TL074CN*	30	300m	10u	13m	2.0n	20	1.0T	24	10k	3.0M	88	13	70	07	A396d	Δ001AA		
78	TL075CJ*	30	300m	10u	13m	2.0n	20	1.0T	24	10k	3.0M	88	13	70	07	A396e	DL14ah		
79	TL075CN*	30	300m	10u	13m	2.0n													

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5] TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS					MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR. @ 25°C				DRAWINGS			
		1] TOT. VOLT. (ΔV)	2] MAX IDLE P (W)	OVER OPERATING TEMP. RANGE			CM RANGE (ΔV)	DIFF IMP. (Ω)	P.P. VOLT. (ΔV)	P.P. CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	T O M D P E	C KT.	OUT- LINE Δ=MO	
				3] MAX VOLTAGE (V/°C)	4] OFST (V)	MAX CURRENT (A)												BIAS (A)
1	JANM38510/11004BCC*	30	330m	25u	6.0m	150n	400n	30		32	10kΩ		94	600m	76	5C	A396e	DL14bb
2	JANM38510/11004CCA*	30	330m	25u	6.0m	150n	400n	30		32	10kΩ		94	600m	76	5C	A396e	DL14bb
3	JANM38510/11004CCB*	30	330m	25u	6.0m	150n	400n	30		32	10kΩ		94	600m	76	5C	A396e	DL14bb
4	JANM38510/11004CCC*	30	330m	25u	6.0m	150n	400n	30		32	10kΩ		94	600m	76	5C	A396e	DL14bb
5	3550J	30	330m	50u	1.0m	10p	100p	20	100G	20	10kΩ	10M	100	65	70	5C	A396e	DL14bb
6	3550K	30	330m	50u	1.0m	10p	100p	20	100G	20	10kΩ	10M	100	65	70	5C	A396e	DL14bb
7	3550S	30	330m	50u	1.0m	10p	100p	20	100G	20	10kΩ	10M	100	65	70	5C	A396e	DL14bb
8	3551J	30	330m	50u	1.0m	10p	100p	20	100G	20	10kΩ	10M	100	65	70	5C	A396e	DL14bb
9	3551S	30	330m	50u	1.0m	10p	100p	20	100G	20	10kΩ	10M	100	65	70	5C	A396e	DL14bb
10	uAF774APC*	30	336m	10u	4.0m	2.0n	4.0n	22	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14zb
11	TL084AMJ*	30	336m	10u	5.0m	2.0n	5.0n	24	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14zh
12	TL084BCJ*	30	336m	10u	5.0m	3.0n	7.0n	24	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14zh
13	uAF774ADM*	30	336m	10u	5.0m	2.0n	5.0n	22	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14br
14	TL085MJ*	30	336m	10u	6.0m	100p	200p					3.0M	94	13	80	07	A396e	DL14ah
15	uAF774BDC*	30	336m	10u	7.0m	2.0n	4.0n	22	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14br
16	uAF774BPC*	30	336m	10u	7.0m	2.0n	4.0n	22	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14zb
17	TL084CJ*	30	336m	10u	7.5m	3.0n	7.0n	24	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14ah
18	uAF774BDM*	30	336m	10u	8.0m	2.0n	5.0n	22	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14br
19	TL084J*	30	336m	10u	9.0m	1.0n	2.0n	24	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14ah
20	TL084MJ*	30	336m	10u	9.0m	2.0n	5.0n	24	1.0T	24	10kΩ	3.0M	94	13	80	07	A308	DL14ah
21	uAF774DC*	30	336m	10u	1.3m	4.0n	8.0n	22	1.0T	24	10kΩ	3.0M	94	13	70	07	A308	DL14br
22	uAF774PC*	30	336m	10u	1.3m	4.0n	8.0n	22	1.0T	24	10kΩ	3.0M	94	13	70	07	A308	DL14zb
23	TL085CJ*	30	336m	10u	1.5m	200p	400p					3.0M	88	13	70	07	A396e	DL14ah
24	TL085CN*	30	336m	10u	1.5m	200p	400p					3.0M	88	13	70	07	A396e	DL14br
25	uAF774LDC*	30	336m	10u	2.0m	4.0n	1.0n	22	1.0T	24	10kΩ	3.0M	94	13	70	07	A308	DL14br
26	uAF774LPC*	30	336m	10u	2.0m	4.0n	1.0n	22	1.0T	24	10kΩ	3.0M	94	13	70	07	A308	DL14zb
27	OP09GR	30	340m	5.0m	200p	500p	500p			11	2.0k	2.0M	50	1.0	70	6F	CH57	CH57
28	OP11GR	30	340m	5.0m	200p	500p	500p			22	2.0k	2.0M	50	1.0	70	6F	CH57	CH57
29	RM4136CJ*	30	340m	6.0m	500n	1.5u		30	300k	20	2.0k		86	1.0	70	5C	A210	FP24
30	RM4136J	30	340m	6.0m	500n	1.5u		24	300k	24	10k	2.0M	94	1.5	70	5C	A373h	DL14ah
31	uA4136DM	30	340m	6.0m	500n	1.5u		24	300k	24	10k	3.0M	94	1.5	70	5C	A396e	DL14br
32	RC4136J	30	340m	7.5m	300n	800n		24	300k	24	10k	3.0M	86	1.0	70	07	A358	DL14ah
33	RC4136N	30	340m	7.5m	300n	800n		24	300k	24	10k	3.0M	86	1.0	70	07	A373h	DL14bw
34	RV4136DB*	30	340m	7.5m	300n	800n		24	300k	20	2.0k	3.0M	86	1.0	70	48	A210	DL14v
35	RV4136DC*	30	340m	7.5m	300n	800n		24	300k	20	2.0k	3.0M	86	1.0	70	48	A210	DL14av
36	uA4136DC	30	340m	7.5m	300n	800n		24	300k	24	10k	3.0M	86	1.0	70	07	A396e	DL14br
37	uA4136PC	30	340m	7.5m	300n	800n		24	300k	24	10k	3.0M	86	1.0	70	07	A396e	DL16z
38	uPC4559C*	30	350m	6.0m	100p	250p		24	10k			100	1.0	80	07	A385	DL8au	
39#	AN6562	30	350m	7.0m	50n	250n		32	Δ			88			65	27	A562	DL8bd
40	CA3240AE1*	30	360m	15u	3.0m	5.0p	10p	27	1.5T	26	2.0k	4.5M	96	+	70	48	A378	Δ001AB
41	CA3240AE*	30	360m	15u	3.0m	5.0p	10p	27	1.5T	26	2.0k	4.5M	96	+	70	48	A378	DL8ad
42	CA3240E1*	30	360m	15u	10m	5.0p	10p	26	1.5T	26	2.0k	4.5M	96	+	70	48	A378	Δ001AB
43	CA3240E*	30	360m	15u	10m	5.0p	10p	26	1.5T	26	2.0k	4.5M	96	+	70	48	A378	DL8ad
44	9908	30	360m	3.0m	100p	300p		22	100G	20	10m	300k	50	200	40	6C	A291	DL8ae
45	2392	30	375m	5.0m	1.3m	25p	130p	20	1.0T	28	100m	800k		40	86	28		
46#	LS141CM	30	400m	7.5m	300n	0.8u	0.3M	24	0				0.5	70	07	A510	MD8a	
47#	LS148CM	30	400m	7.5m	300n	0.8u	0.3M	24	0				0.5	70	07	A373	MD8a	
48#	LS776CM	30	400m	7.5m	25p	50p	1k	20	0				0.8	70	07	A512	MD8a	
49#	LS301AM	30	400m	10m	70n	0.3u	0.5M	24	0					70	07	A508	MD8a	
50#	LS307M	30	400m	10m	70n	0.3u	0.5M	24	0					70	07	A235	MD8a	
51#	LS709CB	30	400m	10m	500p	1.5u	50k	24	0				.25	65	07	A511	DL14cp	
52#	LS204M	30	400m	3.5m	40n	300n	1M	28	+			1.8M	90	1.5	90	28	A373	MD8a
53#	LS240M	30	400m	5.0m	3.5m	40n	300n	1.0M	28	+		1.8M	90	1.5	90	28	A507	MD8a
54#	TEB1033FP*	30	400m	5.0m	5.0m	100n	700n	300p		26		1.5M	86	1.0	86	07	A457a	MD8a
55#	HA17301P	30	420m				300p		100k		10m	2.6M	.20	28	28	A410	DL14ax	
56	RC3401DB*	30	420m				300p		100k		10m	5.0M	60	600m	07	A410	DL14au	
57	uA739DC	30	420m	6.0m	1.0u	300p	300p	20	37k	26			76	1.0	70	07	A457c	DL14br
58	uA739PC	30	420m	6.0m	1.0u	300p	300p	20	37k	26			76	1.0	70	07	A457c	DL16z
59	uA749DC	30	420m	3.0m	9.0m	1.5u	3.0u	-13	50k	26			84	1.0	70	07	A457c	DL14br
60	LF2256JG	30	420m	5.0m	6.5m	1.0n	5.0n	22	1.0T	24	10k	4.5M	94	7.5	85	28	A396b	DL8v
61	LM148F	30	430m	6.0m	7.0n	325n		24	800k	24	10k	1.0M	96	500m	70	5C	A308	FP29a
62	9916	30	450m	150u	30m	10u	30u	10	10k	10	10m	150k	60	300	40	6C	A308	DL14ar
63	L144CJ*	30	470m	3.3u	10m	70p	250p			20		600k	66	400m	70	07	A321	DL14n
64#	NE5532AFE	30	480m		5.0m	200n		24	30k	24	600	10M	94	9.0	70	07	A409e	
65#	NE5532AT	30	480m		5.0m	200n		24	30k	24	600	10M	94	9.0	70	07	A409d	
66#	NE5532FE	30	480m		5.0m	200n		24	30k	24	600	10M	94	9.0	70	07	A409e	
67#	NE5532T	30	480m		5.0m	200n		24	30k	24	600	10M	94	9.0	70	07	A409d	
68	NE5533AF*	30	480m		5.0m	400n		24	30k	24	600	10M	88	6.0	70	07	A409c	DL14bn
69	NE5533AN*	30	480m		5.0m	400n	2.0u	24	30k	24	600	10M	88	6.0	70	07	A409c	DL14ah
70	NE5533F*	30	480m		5.0m	400n	2.0u	24	30k	24	600	10M	88	6.0	70	07	A409c	DL14bn
71	NE5533N*	30	480m		5.0m	400n	2.0u	24	30k	24	600	10M	88	6.0	70	07	A409c	DL14aw
72	TL084CJ	30	480m	10u	2.0m	1.0n	6.0n	24		24			88		70	07	A362	DL14ah
73	OP420N(A)	30	500m	2.5m	1.5p	20p		28	Δ	28	150k	10k	600	Δ	83	6F	CH49	CH49
74	AD741KHZ	30	500m	3.0m	15n	120n		30	Δ	2.0M				90	07	A042K	TO99	
75	OP420G(A)	30	500m	4.0m	2.5p	30p		28	Δ	28	150k	10k	400	Δ	80	6F	CH49	CH49
76	CA741E	30	500m	6.0m	200p	500p		24	0	0.3M	24	10k		70	07	A181	Δ001AN	
77	CA748E	30	500m	6.0m	200p	500p		24	0	0.3M	24	10k		70	07	A181	Δ001AN	
78	OP420GR(A)	30	500m	6.0m	6.0p	40p		28	Δ	28	150k	10k						

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER

(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS					MIN. OUTPUT		MIN TRANSFER		CHAR @ 25°C		I C O E M D P E	DRAWINGS	OUT. LINE Δ=MO		
		1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX VOLTAGE			CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)				SLEW RATE (V/uS)	CMRR (dB)
				3 | DRIFT (V/°C)	4 | VOST (V)	MAX VOLTAGE	MAX CURRENT	CM RANGE												DIFF IMP.	P-P VOLT.	P-P CUR.
1	OP06EJ	30	500mZ	.8u	28m	4.0n	120n		0.8mZ	25			1.0mS	100	114	07	A356	TO99	
2	OP06EZ	30	500mZ	.8u	28m	4.0n	120n		0.8mZ	25			1.0mS	100	114	07	A356	TO99	
3	OP21AJ(M)	30	500mZ	1.0u	200u	5.0n	110n			28		600k†	1.0kΔ	25	100	5C	A361a	TO99	
4	OP21AJ #mil	30	500mZ	1.0u	200u	5.0n	110n			28		600k†	1.0kΔ	25	100	5C	A361a	TO99	
5	OP21AZ	30	500mZ	1.0u	200u	5.0n	110n			28		600k†	1.0kΔ	25	100	5C	A361a	DL8j	
6	OP21EJ	30	500mZ	1.0u	200u	5.0n	110n			28		600k†	1.0kΔ	25	100	28	A361a	TO99	
7	OP21EP	30	500mZ	1.0u	200u	5.0n	110n			28		600k†	1.0kΔ	25	100	28	A361	DL6j	
8	OP21EZ	30	500mZ	1.0u	200u	5.0n	110n			28		600k†	1.0kΔ	25	100	28	A361	DL6j	
9	OP220AJ	30	500mZ	1.0u	300u	2.0n	25n	28		28		150k†	1.0kΔ	25	100	5C	A504c	TO99	
10	OP220EJ	30	500mZ	1.0u	300u	2.0n	25n	28		28		150k†	1.0kΔ	25	100	28	A504c	TO99	
11	OP220EZ	30	500mZ	1.0u	300u	2.0n	25n	28		28		150k†	1.0kΔ	25	100	28	A504c	TO99	
12 #	SFC2308A1	30	500mZ	1.0u	540u	1.5n	10n		10M	26			80 Δ	10 †	96	07	A368	TO99	
13	OP27FJ #Al	30	500mZ	1.3u	140u	85n	95n		1.2MZ	24		5.0M\$	1.0kΔ	1.7	106	28	A356C	TO99	
14	OP37BJ #mil	30	500mZ	1.3u	200u	85n	90n		2.5G†	24		45M\$	1.0kΔ		106	5C	A356	TO99	
15	OP37BZ #mil	30	500mZ	1.3u	200u	85n	90n		2.5G†	24		45M\$	1.0kΔ		106	5C	A356C	DL8f	
16	OP207EY	30	500mZ	1.3u	200u	5.0n	5.0n	26	20M	12		1.2M†	200 \$	.25 †	106	07		
17	OP207AY	30	500mZ	1.3u	230u	5.6n†	5.6n	26	20M	12		1.2M†	200 \$	.25 †	106	5C		
18	OP20BZ #mil	30	500mZ	1.5u	400u	2.5n	27n			0.6		100k†	500 Δ	.05	95	5C	A361	DL8j	
19	OP20FP	30	500mZ	1.5u	400u	2.5n	27n			0.6		100k†	500 Δ	.05	95	07	A361	DL8j	
20	OP20FZ	30	500mZ	1.5u	400u	2.5n	27n			0.6		100k†	500 Δ	.05	95	28	A361	DL8j	
21	OP220BJ	30	500mZ	1.5u	500u	2.5n	25n	28		28		150k†	800 \$		90	5C	A504c	TO99	
22	OP220FJ	30	500mZ	1.5u	500u	2.5n	25n	28		28		150k†	800 \$		98	28	A504c	TO99	
23	OP220FZ	30	500mZ	1.5u	500u	2.5n	25n	28		28		150k†	800 \$		98	28	A504c	TO99	
24	OP27GJ #Al	30	500mZ	1.8u	220u	135n	150n		0.8MZ	22		5.0M\$	700 Δ	1.7	100	28	A356C	TO99	
25	OP07CZ	30	500mZ	1.8u	250u	8.0n	9.0n		8.0MZ	24		0.4M	120 Δ	0.1	100	07	A261b	DL8f	
26	OP37CJ #mil	30	500mZ	1.8u	300u	135n	150n		2.0G†	22		45M\$	500 Δ		100	5C	A356	TO99	
27	OP207FY	30	500mZ	1.8u	300u	10n	11n	26	8M	12		1.2M†	150 \$	.25 †	100			
28	OP207BY	30	500mZ	1.8u	400u	12n†	14n	26	8M	12		1.2M†	150 \$	.25 †	100	5C		
29	OP21BJ(M)	30	500mZ	2.0u	500u	6.0n	130n			28		600k†	500 Δ	.25	90	5C	A361a	TO99	
30	OP21BJ #mil	30	500mZ	2.0u	500u	6.0n	130n			28		600k†	500 Δ	.25	90	5C	A361a	TO99	
31	OP21BZ	30	500mZ	2.0u	500u	6.0n	130n	28		27		600k†	500 Δ	.25	90	5C			
32	OP21FJ	30	500mZ	2.0u	500u	6.0n	130n	28		28		600k†	500 Δ	.25	90	28	A361a	DL8ba	
33	OP21FP	30	500mZ	2.0u	500u	6n	130n	28		27		600k†	500 Δ	.25	90	28			
34	OP21FZ	30	500mZ	2.0u	500u	6.0n	130n	28		27		600k†	500 Δ	.25	90	28			
35 #	SFC2308A2	30	500mZ	2.0u	590u	1.5n	10n		10M	26			80 Δ	10 †	96	07	A366	TO99	
36	OP05EZ	30	500mZ	2.0u	0.6m	5.3n	5.5n		15MZ			0.4M	200 Δ	0.1	110	07	A261b	DL8f	
37	OP06FJ	30	500mZ	2.0u	0.6m	5.0n	80n	28 †	0.7M	24	0	1.0k\$			114	07	A356	TO99	
38	OP06FZ	30	500mZ	2.0u	0.6m	5.0n	80n	28 †	0.7M	24	0	1.0k\$			114	07	A356C	DL8ba	
39	OP06BJ	30	500mZ	2.0u	0.7m	4.0n	70n	28 †	0.7M	24	0	100 \$			114	5C	A356	TO99	
40	OP06BZ	30	500mZ	2.0u	0.7m	4.0n	70n	28 †	0.7M	24	0	100 \$			114	5C	A356C	DL8f	
41	PM725Z(M)	30	500mZ	2.0u†	1.5m	40n	100n\$		1.5M	24	0	1.0M\$			110	0	A356C	DL8f	
42	PM725Z #mil	30	500mZ	2.0u†	1.5m	40n	100n\$		1.5M	24	0	1.0M\$			110	0	A356C	DL8f	
43	OP07DP	30	500mZ	2.5u	250u	8.0n	14n		7.0MZ	24		0.4m	120 Δ		94	07	A261b	DL8f	
44	OP08EP	30	500mZ	2.5u	26m	0.3n	2.6n		26MZ	26		0.8m†	80 Δ	.12 †	104	07	A291c	DL8j	
45	OP08EZ	30	500mZ	2.5u	26m	0.3n	2.6n		26MZ	26		0.8m†	80 Δ	.12 †	104	07	A291c	DL8j	
46	OP20CZ #mil	30	500mZ	3.0u	800u	3.5n	33n			0.7		100k†	300 Δ	.05	90	5C	A361	DL8j	
47	OP20GZ	30	500mZ	3.0u	800u	3.5n	33n			0.7		100k†	300 Δ	.05	90	28	A361	DL8j	
48	OP220CJ	30	500mZ	3.0u	1.3m	5.0n	400n	28		28		150k†	500 \$		92	5C	A504c	TO99	
49	OP220CY	30	500mZ	3.0u	1.3m	5.0n	40n	28		28		150k†	500 \$		92	5C	A504c	TO99	
50	OP220GJ	30	500mZ	3.0u	1.3m	5.0n	40n	28		28		150k†	500 \$		92	28	A504c	TO99	
51	OP220GZ	30	500mZ	3.0u	1.3m	5.0n	40n	26		28		150k†	500 \$		92	28	A504c	TO99	
52	OP09GP	30	500mZ	4.0u†	6.0m	300n	800n		0.2MZ	22		1.5M	50 Δ	0.7	70	07	A396a	DL14q	
53	OP11GP	30	500mZ	4.0u†	6.0m	300n	800n		0.2MZ	22		1.5M	50 Δ	0.7	70	07	A308	DL14q	
54	OP05CZ	30	500mZ	4.5u	1.6m	8.0n	9.0n		8.0MZ			0.4M	120 Δ	0.1	100	07	A261b	DL8f	
55	OP06CJ #mil	30	500mZ	4.5u	1.6m	25n	180n		0.5mZ	24		500k\$	100		100	5C	A356	TO99	
56	OP06CZ #mil	30	500mZ	4.5u	1.6m	25n	180n		0.5mZ	24		500k\$	100		100	5C	A356C	DL8ba	
57	OP06GJ	30	500mZ	4.5u	1.6m	15n	110n	28 †	0.5M	22	0	500 \$			110	07	A356	TO99	
58	OP06GZ	30	500mZ	4.5u	1.6m	15n	110n	28 †	0.5M	22	0	500 \$			110	07	A356C	DL8f	
59	PM308AZ	30	500mZ	5.0u	.73m	1.5n	10n		10m	26	0	80 Δ			96	07	A291c	DL8j	
60 #	SFC2308ADC	30	500mZ	5.0u	.73m	1.5n	10n		10m	26	0	80 Δ		10 †	96	07	A368	DL8f	
61	LH2308AFZ*	30	500mZ	5.0u	.73m	1.5n	10n	28	10M	26	10k0	98			96	07	A221	DL16ba	
62	LH2108AFZ*	30	500mZ	5.0u	1.0m	400p	3.0n	27	30M	26	10k0	98			96	5C	A221	DL16ba	
63	LH2208AFZ*	30	500mZ	5.0u	1.0m	400p	3.0n	27	30M	26	10k0	98			96	28	A221	DL16ba	
64	OP21GJ	30	500mZ	5.0u	1.0m	8.0n	165n			23		600k†	500 Δ	.25	84	28	A361a	TO99	
65	OP21GP	30	500mZ	5.0u	1.0m	8.0n	165n	28		27		600k†	500 Δ	.25	84	28			
66	OP21GZ	30	500mZ	5.0u	1.0m	8.0n	165n	28		27		600k†	500 Δ	.25	84	28			
67 #	TDB0157ADP	30	500mZ	5.0u	2.3m	10p\$	50p\$		1.0†	20		15M\$	25 Δ	40	85	07	A369e	DL8f	
68	PM725CZ	30	500mZ	5.0u	3.5m	50p	125p\$		1.5m	24	0	25k\$			34	07	A356C	DL8f	
69 #	TDB0155DP	30	500mZ	5.0u†	3.3m	50p\$	200p\$		1.0†	20		2.5M\$†	15 Δ	50 †	80	07	A369e	DL8f	
70 #	TDB0156CM	30	500mZ	5.0u	3.3m	50p\$	200p\$		1.0†	20		5.0M\$†	15 Δ	50 †	80	07	A369c	TO99	
71 #	TDB0156DP	30	500mZ	5.0u†	3.3m	50p\$	200p\$		1.0†	20		5.0M\$†	15 Δ	50 †	80	07	A369e	DL8f	
72 #	TDB0157CM	30	500mZ	5.0u	3.3m	50p\$	200p\$		1.0†	20		2.0M\$†	15 Δ	50 †	80	07	A369c	TO99	
73 #	TDB0157DP	30	500mZ	5.0u†	3.3m	50p\$	200p\$		1.0†	20		2.0M\$†	15 Δ	50 †	80	07	A369e	DL8f	
74	TEB1761CM	30	500mZ	6.0u†	6.0m	300n	1.0u	24	200k†	14			80		65	07	A402	TO99	
75	TEB1761DP	30	500mZ	6.0u†	6.0m	300n	1.0u	24	200k†	14			80		65	07	A402a	DL8j	
76	OP20HZ	30	500mZ	7.0u	1.7m	5.0n	45n			0.8		100k†	500 Δ	.05	85	07	A361	DL8j	
77	OP220HJ	30	500mZ	7.0u	3.2m	10n	60n	28		27		150k†	300 \$		80	07	A504c	TO99	

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5] TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS					MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C			T O C		DRAWINGS		
		1] TOT. VOLT. (ΔV)	2] MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MIN. @25°C		P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	E D P E]	C K T.	OUT-LINE Δ=MO		
				3] MAX VOLTAGE (V/°C)	4] OFFSET (V)	MAX CURRENT (A)	BIAS (A)										CM RANGE (ΔV)	DIFF. IMP. (Ω)
1	OP215EJ#ai	30	500mZ	15u	7.5m	0.8n	1.4n	1.0T	24	13m†	75 Δ	7.5	82	07	A457	TO99		
2	OP215EY#ai	30	500mZ	15u	7.5m	0.8n	1.4n	1.0T	24	13m†	75 Δ	7.5	82	07	A457b	DL14af		
3	OP215EZ#ai	30	500mZ	15u	7.5m	0.8n	1.4n	1.0T	24	13m†	75 Δ	7.5	82	07	A457a	DL8n		
4	LH2108FZ*	30	500mZ	15u	3.0m	400p	3.0n	27	30M	26	10k∅	94	85	5C	A221	DL16ba		
5	LH2208FZ*	30	500mZ	15u	3.0m	400p	3.0n	27	30M	26	10k∅	94	85	28	A221	DL16ba		
6	OP421GY#AI	30	500mZ	15u	4.0m§	12n§	125n§	29		3.1	750k†	100 Δ	25 †	80	28	A358		
7#	TDB0351ACM	30	500mZ	20u	4.0m	100p§	200p§		24		3.0M§	25 Δ	10	80	07	A174	TO99	
8#	TDB0351ADP	30	500mZ	20u	4.0m	100p§	200p§		24		3.0M§	25 Δ	10	80	07	A361	DL8bf	
9#	TDB0353ACM	30	500mZ	20u	4.0m	2.0n	4.0n		24		3.0M§	25 Δ	10	80	07	A409d	TO99	
10#	TDB0353ADP	30	500mZ	20u	4.0m	2.0n	4.0n		24		3.0M§	25 Δ	10	80	07	A409e	DL8bf	
11	OP01CZ	30	500mZ	20u	6.0m	40n	200n		24		250k	25 Δ	18	80	07	A200a	DL8j	
12	OP01GZ#mil	30	500mZ	20u	6.0m	40n	200n		24		250k	25 Δ	18	80	5C	A200a	DL8j	
13	OP02DZ	30	500mZ	20u	6.0m	50n	200n		24		4.0k	25 Δ	.25	70	07	A369a	DL8i	
14	OP14DZ	30	500mZ	20u	6.0m	50n	200n		24		0.8M	25 Δ	.25	70	07	A457a	DL8j	
15	TEC1761CM	30	500mΔ	25u	4.0m	100n	700n	24			4.0k	85		70	5C	A402	TO99	
16	OP421HY#AI	30	500mZ	25u	6.0m§	20n§	250n§	29		2.7	750k†	100 Δ	25 †	76	07	A358		
17#	TDB0351BCM	30	500mZ	30u	7.0m	100p§	200p§		24		4.0M§	25 Δ	13 †	80	07	A174	TO99	
18#	TDB0351BDP	30	500mZ	30u	7.0m	100p§	200p§		24		4.0M§	25 Δ	13 †	80	07	A361	DL8bf	
19#	TDB0353BCM	30	500mZ	30u	7.0m	4.0n	8.0n		24		4.0M§	25 Δ	13 †	80	07	A409d	TO99	
20#	TDB0353BDP	30	500mZ	30u	7.0m	4.0n	8.0n		24		4.0M§	25 Δ	13 †	80	07	A409e	DL8bf	
21	AD301AN	30	500mZ	30u	10m	70n	300n	24 Δ	500k	20	10k∅	87		70	07	A419b	DL8g	
22	LM307FZ	30	500mZ	30u	10m	70n	300n	24	500k	25	10k∅	88		70 †	07	A352	DL14bn	
23	LM307N	30	500mZ	30u	10m	70n	300n	24	500k	24	10k∅	88		70	07	A235	DL8ah	
24	LM307NZ	30	500mZ	30u	10m	70n	300n	24	500k	24	10k∅	88		70	07	A352a	DL8ao	
25	PM308P	30	500mZ	30u	10m	1.5n	10n		10M	26 ∅		25 Δ		80 ∅	07	A291c	DL8j	
26	PM308Z	30	500mZ	30u	10m	1.5n	10n		10m	26 ∅		25 Δ		80	07	A291c	DL8j	
27#	SFC2301AGC	30	500mZ	30u†	10m	70n	300n		500k	20		25 Δ	0.5 †	70	07	A369e	DL8bf	
28#	SFC2308UC	30	500mZ	30u	10m	1.5n	10n		10M	26		25 Δ	10 †	80	07	A368	MD8a	
29#	TDC0148DG*	30	500mZ	6.0m	6.0m	25n§	100n§			26		50 Δ	0.5 †	70	5C	A504f	TO116	
30	SU536	30	500mZ	30 †	30m†	5.0p†	5.0p†	30	100M†	20 ∅	2k∅	1.0M∅†	6 †	64	58	A489	CN	
31#	LS141T	30	520mZ	6.0m	500n	1.5u	0.3M	24 ∅				50 §	0.5 †	70	∅	5C	A510	TO99
32#	LS148T	30	520mZ	6.0m	500n	1.5u	0.3M	24 ∅				50 §	0.5 †	70	∅	5C	A373	TO99
33#	LS776T	30	520mZ	6.0m	15n§	50n§	1k†	20				20 §	0.5 †	70	∅	5C	A512	TO99
34#	LS141CT	30	520mZ	7.5m	300n	0.8u	0.3M	24 ∅				20 §	0.5 †	70	∅	07	A510	TO99
35#	LS148CT	30	520mZ	7.5m	300n	0.8u	0.3M	24 ∅				20 §	0.5 †	70	∅	07	A373	TO99
36#	LS776CT	30	520mZ	7.5m	25n§	50n§	1k†	20				20 §	0.5 †	70	∅	07	A512	TO99
37#	LS301AT	30	520mZ	10m	70n	0.3u	0.5M	24 ∅				50 §	0.5 †	70	∅	07	A508	TO99
38#	LS307T	30	520mZ	10m	70n	300n	0.5M	24 ∅				50 §	0.5 †	70	∅	07	A235	TO99
39#	LS148AT	30	520mZ	15u	3.0m	25n	0.1u	2.0M	24 ∅			50 §	0.5 †	80	∅	5C	A373	TO99
40#	LS141AT	30	520mZ	15u	4.0m	70n	.21u	1.0M	32 ∅		44M	0.3		80	∅	5C	A510	TO99
41#	LS709AT	30	530mZ	3.0m	50n§	200n	350k	24 ∅				.25 †		80	∅	5C	A511	TO99
42#	LS709T	30	530mZ	6.0m	200n§	500n§	150k	24 ∅				.25 †		70	∅	5C	A511	TO99
43#	LS709CT	30	530mZ	10m	500n§	1.5u	50k	24 ∅				.25 †		65	∅	07	A511	TO99
44	uA759HM	30	540m	3.0m§	30n§	150n§	28 §	250k	20		1.0M∅†	600m		80	5E	A416b	CN∅	
45	uA759HC	30	540m	6.0m§	50n§	250n§	28 §	250k	20		1.0M∅†	86		70	0C	A416b	CN∅	
46#	AN6564	30	570mZ	7.0m	50n	250n	32 Δ					100 †		85 †	27	A563	DL16cr	
47	LF2356P	30	600m	13m	2.0n	8.0n	20	1.0T†	24	10k∅	4.5M∅†	88	12 †	80	07	A396b	DL8p	
48	TP0032A	30	600m	25u†	5.0m	25p	100p	24 †	100G	20	20m	70	350	50	5C	A564	CN18c	
49	LH0032G883	30	600m	25u†	10m	2.5n	20n	20		1.0k∅	300k†	63	500 †	50	5C	A218	CN18c	
50	9406	30	600m	125u	10m	2.0u	10u	12	50k	20	6.0m	57	300	50	58		CN∅	
51	CA080EE	30	625mZ	5.0m	0.4n	0.7n	24	1.5T†	24		5.0M∅	50		80	07		DL8ad	
52	CA081BE	30	625mZ	5.0m	0.4n	0.7n	24	1.5T†	24		5.0M∅	50		80	07		DL8ad	
53	CA082BE	30	625mZ	5.0m	0.4n	0.7n	24	1.5T†	24		5.0M∅	50		80	07		DL8ad	
54	CA083BE	30	625mZ	5.0m	0.4n	0.7n	24	1.5T†	24		5.0M∅	50		80	07		DL8ad	
55	XR4202P*	30	625mZ	5.0m	10n	100n	24	10k∅	20	3.0k∅	3.5M∅†	84 †	1.5 †	70	48	A323	DL16ao	
56#	HA17080GSA	30	625mZ	6.0m	100p	200p	22	1.0T†	24		3.0M†	94	13 †	80	48	A373a	DL8au	
57#	HA17080PSA	30	625mZ	6.0m	100p	200p	22	1.0T†	24		3.0M†	94	13 †	80	27	A373a	DL8au	
58#	HA17082GSA	30	625mZ	6.0m	100p	200p	22	1.0T†	24		3.0M†	94	13 †	80	48	A373e	DL8au	
59#	HA17082PSA	30	625mZ	6.0m	100p	200p	22	1.0T†	24		3.0M†	94	13 †	80	27	A373e	DL8au	
60#	HA17083GA	30	625mZ	6.0m	100p	200p	22	1.0T†	24		3.0M†	94	13 †	80	48	A373f	DL14cs	
61#	HA17083PA	30	625mZ	6.0m	100p	200p	22	1.0T†	24		3.0M†	94	13 †	80	27	A373f	DL14cs	
62#	HA17084PA	30	625mZ	6.0m	100p	200p	22	1.0T†	24		3.0M†	94	13 †	80	27	A373g	DL14cs	
63	CA080AE	30	625mZ	7.5m	0.6n	1.0n	24	1.5T†	24		5.0M∅	50		80	07		DL8ad	
64	CA081AE	30	625mZ	7.5m	0.6n	1.0n	24	1.5T†	24		5.0M∅	50		80	07		DL8ad	
65	CA082AE	30	625mZ	7.5m	0.6n	1.0n	24	1.5T†	24		5.0M∅	50		80	07		DL8ad	
66	CA083AE	30	625mZ	7.5m	0.6n	1.0n	24	1.5T†	24		5.0M∅	50		80	07		DL8ad	
67	XR4136CP*	30	625mZ	7.5m	300n	800n	24	300k	24	10k∅	3.0M∅†	86	1.6 †	70	07	A396e	DL14bp	
68	XR4212CP*	30	625m	7.5m	200n	800n	24	300k	24	10k∅	3.0M∅†	74	1.6 †	70	07	A396e	DL14bp	
69#	HA17080GS	30	625mZ	15m	200p	400p	20	1.0T†	24		3.0M†	88	13 †	70	48	A373a	DL8au	
70#	HA17080PS	30	625mZ	15m	200p	400p	20	1.0T†	24		3.0M†	88	13 †	70	27	A373a	DL8au	
71#	HA17082GS	30	625mZ	15m	200p	400p	20	1.0T†	24		3.0M†	88	13 †	70	48	A373e	DL8au	
72#	HA17082PS	30	625mZ	15m	200p	400p	20	1.0T†	24		3.0M†	88	13 †	70	27	A373e	DL8au	
73#	HA17083G	30	625mZ	15m	200p	400p	20	1.0T†	24		3.0M†	88	13 †	70	48	A373f	DL14cs	
74#	HA17083P	30	625mZ	15m	200p	400p	20	1.0T†	24		3.0M†	88	13 †	70	27	A373f	DL14cs	
75#	HA17084G	30	625mZ	15m	200p	400p	20	1.0T†	24		3.0M†	88	13 †	73	48	A373g	DL14cs	
76#	HA17084P	30	625mZ	15m	200p	400p	20	1.0T†	24		3.0M†	88	13 †	70	27	A373g	DL14cs	
77	CA080E	30	625mZ	20m	1.0n	2.0n	20	1.5T†	24		5.0M∅	25 §		70	07		DL8ad	
78	CA081E	30	625mZ	20m	1.0n	2.0n	20	1.5T†	24		5.0M∅	25 §		70	07		DL8ad	
79	CA082E	30	625mZ	20m	1.0n	2.0n	20	1.5T†	24		5.0M∅	25 §		70	07		DL8ad	
80	CA083E	30																

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP RATED	SPECS @ 25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @ 25°C		MIN TRANSFER CHAR @ 25°C			T O P M E	C O D E	DRAWINGS CKT.	OUT-LINE Δ=MO		
			1] TOT. VOLT. (ΔV)	2] MAX IDLE P (W)	3] DRFT (V/°C)	4] OFST (V)	MAX VOLTAGE (A)	MAX CURRENT (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)					SLEW RATE (V/μS)	CMRR (dB)
1	CA080AT	30	680mV	5.0m	5.0m	2.0n	5.0n	24	1.5T+	24	5.0MΩ	25	80	5C	Δ002AL	TO5					
2	CA081AS	30	680mV	5.0m	5.0m	2.0n	5.0n	24	1.5T+	24	5.0MΩ	50	80	5C	TO5						
3	CA081AT	30	680mV	5.0m	5.0m	2.0n	5.0n	24	1.5T+	24	5.0MΩ	50	80	5C	Δ002AL	TO5					
4	CA082AS	30	680mV	5.0m	5.0m	2.0n	5.0n	24	1.5T+	24	5.0MΩ	50	80	5C	TO5						
5	CA082AT	30	680mV	5.0m	5.0m	2.0n	5.0n	24	1.5T+	24	5.0MΩ	50	80	5C	Δ002AL	TO5					
6#	TDC4558CM	30	680mV	6.0m	200n	500n	500n	20		20	2.5MΩ	50	80	5C	TO5						
7#	SFC2747JM*	30	680mV	7.5m	200n	500n	500n	20		20		50	1.5	7C	A457	TO116					
8#	TDB4558CM	30	680mV	7.5m	300n	800n	800n	20		20		20	1.0	7C	A457	TO99					
9	CA080S	30	680mV	9.0m	4.0n	10n	10n	24	1.5T+	24	2.0MΩ	20	80	5C	TO5						
10	CA080T	30	680mV	9.0m	4.0n	10n	10n	24	1.5T+	24	5.0MΩ	50	80	5C	Δ002AL	TO5					
11	CA081S	30	680mV	9.0m	4.0n	10n	10n	24	1.5T+	24	5.0MΩ	50	80	5C	TO5						
12	CA081T	30	680mV	9.0m	4.0n	10n	10n	24	1.5T+	24	5.0MΩ	50	80	5C	Δ002AL	TO5					
13	CA082S	30	680mV	9.0m	4.0n	10n	10n	24	1.5T+	24	5.0MΩ	50	80	5C	TO5						
14	CA082T	30	680mV	9.0m	4.0n	10n	10n	24	1.5T+	24	5.0MΩ	50	80	5C	Δ002AL	TO5					
15	CA080CS	30	680mV	2.0m	1.0n	2.0n	2.0n	20	1.5T+	24	5.0MΩ	25	70	07	TO5						
16	CA080CT	30	680mV	2.0m	1.0n	2.0n	2.0n	20	1.5T+	24	5.0MΩ	25	70	07	Δ002AL	TO5					
17	CA081CS	30	680mV	2.0m	1.0n	2.0n	2.0n	20	1.5T+	24	5.0MΩ	25	70	07	TO5						
18	CA081CT	30	680mV	2.0m	1.0n	2.0n	2.0n	20	1.5T+	24	5.0MΩ	25	70	07	Δ002AL	TO5					
19	CA082CS	30	680mV	2.0m	1.0n	2.0n	2.0n	20	1.5T+	24	5.0MΩ	25	70	07	TO5						
20	CA082CT	30	680mV	2.0m	1.0n	2.0n	2.0n	20	1.5T+	24	5.0MΩ	25	70	07	Δ002AL	TO5					
21	uPC4556C*	30	700mV	6.0m	200n	500n	500n	24		24	2kΩ	100	5.0	7C	A385	DL8au					
22	uPC4557C*	30	700mV	6.0m	200n	500n	500n	24		24	2kΩ	100	1.0	7C	A385	DL8au					
23	XR4202N*	30	750mV	5.0m	1.0n	1.0n	1.0n	24	1.0k	20	3.0kΩ	84	1.5	7C	A323	DL16ao					
24	uA791KM	30	750mV	6.0m	500n	1.5u	1.5u	24	300k	24	1.0kΩ	94		7C	A242	CN24b					
25	XR4136M*	30	750mV	6.0m	500n	1.5u	1.5u	24	300k	24	1.0kΩ	94	1.6	7C	A396e	DL14bp					
26	XR4212M*	30	750mV	6.0m	200n	1.5u	1.5u	24	300k	24	1.0kΩ	86	1.6	7C	A396e	DL14bp					
27	TDB0791SP	30	750mV	7.5m	300n	800n	800n	24	300k	23	1.0kΩ	86	1.6	7C	A242	CN24b					
28	uA791KC	30	750mV	7.5m	300n	800n	800n	24	300k	23	1.0kΩ	86	1.6	7C	A396e	DL14bp					
29	XR4136CN*	30	750mV	7.5m	300n	800n	800n	24	300k	24	1.0kΩ	86	1.6	7C	A396e	DL14bp					
30	XR4212CN*	30	750mV	7.5m	200n	800n	800n	24	300k	24	1.0kΩ	74	1.6	7C	A396e	DL14bp					
31	XR4202M*	30	750mV	1.0m	200n	1.5u	1.5u	28	0.6M	20	3.5MΩ	78	1.5	7C	A323	DL16ao					
32	XR082DN	30	750mV	2.0m	400p	800p	800p	10	*	10T	24	3MΩ	25	13	7C	A396e	CH52				
33	XR083DN	30	750mV	2.0m	400p	800p	800p	10	*	10T	24	3MΩ	25	13	7C	A373f	CH52				
34	XR084DN	30	750mV	2.0m	400p	800p	800p	10	*	10T	24	3MΩ	25	13	7C	A373q	CH53				
35	L144AL*	30	750mV	3.3u	6.0	50n	200n	20		20	600kΩ	66	400m	80	5C	A321	FP29b				
36	L144BL*	30	750mV	3.3u	6.0	50n	200n	20		20	600kΩ	66	400m	80	5C	A321	FP29b				
37	OPA102AM	30	750mV	5.0u	250u	10p	10p	27	†	1.0T	24	24m	40MΩ	94	10	80	5C	A174m	CN100		
38	OPA102BM	30	750mV	5.0u	250u	10p	10p	27	†	1.0T	24	24m	40MΩ	94	10	80	5C	A174m	CN100		
39	CA3280AG*	30	750mV	5u	1.5m	8.0u	8.0u	-13		0.5M	26	9MΩ	94	125	†	94	5C	A499	Δ001AC		
40	CA3280G*	30	750mV	5u	4.0m	8.0u	8.0u	-13		0.5M	24	9MΩ	94	125	†	80	07	A499	Δ001AC		
41	OPA101AM	30	750mV	10u	500u	15p	15p	27	†	1.0T	24	24m	20MΩ	94	5.0	80	5C	A174m	CN100		
42	OPA101BM	30	750mV	10u	500u	15p	15p	27	†	1.0T	24	24m	20MΩ	94	5.0	80	5C	A174m	CN100		
43#	MA307	30	750mV	20u	3.0m	1.0u	5.0u	20		10k	20	700MΩ	100	†	700	†	90	07			
44	OP11CY ±mil	30	800mV	4.0u	6.0m	300n	800n	20		0.2M	24	1.5M	50	0.7	7C	A308	DL14q				
45	OP11GY	30	800mV	4.0u	6.0m	300n	800n	20		0.2M	22	1.5M	50	0.7	7C	A308	DL14q				
46	uA747FM	30	840mV	6.0m	200n	500n	500n	24		30M	24	10kΩ	88	5.0	†	70	5C	A241	FP2w		
47	HA5190-2	30	870mV	20u	1.0m	6.0u	2.0u	10	∅	10k	10	∅	25m	150MΩ	15k	160	70	Δ	5C	A454	DL14cf
48	HA5190-8	30	870mV	20u	1.0m	6.0u	2.0u	10	∅	10k	10	∅	25m	150MΩ	15k	160	70	Δ	5C	A454	DL14cf
49#	TDC0146DG*	30	900mV	6.0m	25n	100n	100n	24		10M	24	800k	100	0.4	†	80	5C	A398a	DL16cs		
50#	TDB0146DG	30	900mV	7.5m	100n	250n	250n	24		10M	24	500k	50	0.4	†	70	07	A398a	DL16cs		
51	3500MP*	30	900mV	5.0u	2.0m	25n	50n	22		10M	20	20m	1.5MΩ	100	†	800m	100	†	28	TO99	
52	HA5195-5	30	990mV	20u	1.0m	6.0u	2.0u	10		10k	10	25m	150MΩ	80	200	†	74	07	A454	DL14cf	
53	3554BM	30	1.0	15u	1.0m	50p	50p	22		1.0T	20	200m	150MΩ	90	1.0k	44	28	A392	CN22e		
54	3554SM	30	1.0	25u	1.0m	50p	50p	22		1.0T	20	200m	150MΩ	90	1.0k	44	5C	A392	CN22e		
55	3554AM	30	1.0	50u	2.0m	50p	50p	22		1.0T	20	200m	150MΩ	90	1.0k	44	28	A392	CN22e		
56	9412	30	1.0	100u	7.5m	3.0u	3.0u	22		3.0k	20	400m	1.0M	50	200	60	57		CN0		
57	OPA605KG	30	1.2	5.0u	500u	35p	35p	20		100G	20	60m	1.3MΩ	80	80	80	5C	A566	DL14cw		
58	OPA605JG	30	1.2	10u	500u	35p	35p	20		100G	20	60m	1.3MΩ	80	80	80	5C	A566	DL14cw		
59	OPA605HG	30	1.2	25u	1.0m	35p	35p	20		100G	20	60m	1.3MΩ	80	80	70	5C	A566	DL14cw		
60	OA304	30	1.3	500n	2.0m	25n	100n	24		4.0M	20	2.0kΩ	93	5.0	80	27			DL14f		
61	OA305	30	1.3	1.0u	2.0m	25n	100n	24		4.0M	20	2.0kΩ	93	5.0	80	27			DL14f		
62	OA301A	30	1.3	1.5u	2.0m	25n	100n	24		4.0M	20	2.0kΩ	93	5.0	80	27			DL14f		
63	OA302	30	1.3	3.0u	2.0m	25n	100n	24		4.0M	20	2.0kΩ	93	5.0	80	27			DL14f		
64	9909	30	1.8	1.0m	6.0m	20u	5.0u	20		10k	20	100m	500k	66	2.5k	70	58			DL24q	
65#	TDB0791EP12	30	1.5	7.5m	300n	800n	800n	23		300k	23	300k	20	Δ		70	0C	A413	MT54		
66	MA30422	30	162	5.0u	2.0m	70p	150p	22		1.0T	20	2.0kΩ	4.0MΩ	88	13	†	70	07		CH0	
67	MA00287	30	168	10u	500u	100p	400p	22		1.0T	24	10kΩ	3.0MΩ	88	13	†	70	07			
68#	M5218L	30	180		6.0m	200n	500n	24		300k	24	10kΩ	86	2.2	†	70	27			MS3	
69#	CTS00322B	32			5.0m	25p	100p	20			20		48	350		50	5C	A218	TO8		
70#	NE5514D	32			6.0m	30n	30n	13		100M	13	3.0MΩ	50	Δ	600m	70	07	A548a	MD16a		
71#	LM324D	32		7.0u	9.0m	150n	500n	30			30		25	Δ		65	07	A3C8	MD14a		
72#	LA6358	32	Δ	2.5m	2.0m	5.0n	45n	31					25	Δ		65	27	A409e	DL8ar		
73#	LA6358M	32	Δ	2.5m	2.0m	5.0n	45n	31					25	Δ		65	27	A409e	MD8a		
74#	LA6324	32	Δ	45m	2.0m	5.0n	45n	31					25	Δ		65	27	A549a	DL14ci		
75#	LA6324M	32	Δ	330m	7.0m	50n	250n	31					25	Δ		65	38	A549a	MD14b		
76#	AN1358	32		350m	7.0m	50n	250n	30					100	†		65	27	A562	DL8Bs		
77	uPC358G	32	*	350m	7.0m	250n	50n	30	Δ		30	2.0kΩ	25	Δ		65	07	A292a	DL8au		
78	uPC1251G	32	*	350m	7.0m	250n	50n	30	Δ		30	2.0kΩ	25	Δ		65	27	A292a	DL8au		
79	TDB0124FP	32																			

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP RATED	INPUT CHARACTERISTICS										MIN. OUTPUT CHAR. @ 25°C		MIN TRANSFER CHAR @ 25°C			T C O M D P E	DRAWINGS CKT. Δ=MO
			OVER OPERATING		TEMP. RANGE				MIN. @ 25°C		P-P	P-P	3dB BW	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)			
			MAX VOLTAGE	MAX CURRENT	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	1) TOT. VOLT. (ΔV)	2) MAX IDLE P (W)	3) DRIFT (V/°C)	4) OFFSET (V)					5) BIAS (A)		
1#	HA2539-8	35	870mW	20u	20m	8.0u	250	20	10k	20	10m	9.5M	15k	550	60	5C	A494a	DL140	
2#	TAE1453A	36		4.0m	50n	50n	14	200k	14	200k	14	80	20	80	28	A557	DL5a		
3#	TAE1453GD	36		4.0m	50n	50n	14	200k	14	200k	14	80	20	80	28	A578	MD5c		
4#	TAE1453GG	36		4.0m	50n	50n	14	200k	14	200k	14	80	20	80	28	A578	MD5d		
5#	TAE2453A	36		4.0m	50n	50n	14	200k	14	200k	14	80	1.0	80	28	A457a	DL5bn		
6#	TAE4453A	36		4.0m	50n	50n	14	200k	14	200k	14	80	1.0	80	28	A549a	DL14da		
7#	TAB1453GD	36		6.0m	80n	80n	13	200k	14	200k	14	78	20	76	07	A578	MD5c		
8#	TAB1453GG	36		6.0m	80n	80n	13	200k	14	200k	14	78	20	76	07	A578	MD5d		
9#	TAB2453A	36		6.0m	80n	80n	13	200k	14	200k	14	78	1.0	76	07	A457a	DL5bn		
10#	TBB1458GD	36		6.0m	200n	200n	24	300k	14	300k	14	84	500m	70	07	A531	MD5c		
11#	TBB1458GG	36		6.0m	200n	200n	24	300k	14	300k	14	84	.50	70	07	A531	FP42		
12#	TAB1453A	36		7.5m	80n	80n	2	20k				1.0		79	07	A557	DL5c		
13#	TBA221GD	36		7.5m	200n	800n	26	2.0M	28	10k	10k	88	500m	70	07	A042	MD5c		
14#	TBA221GG	36		7.5m	200n	800n	26	2.0M	28	10k	10k	88	500m	70	07	A042			
15#	TBB741GD	36		7.5m	200n	800n	26	2.0M	28	10k	10k	88	500m	70	07	A042	MD5c		
16#	TBB741GG	36		7.5m	200n	800n	26	2.0M	28	10k	10k	88	500m	70	07	A042	FP42		
17#	MC3503F	36		10u	6.0m	200n	1.2u	13	300k	12		9.0k	50	600m	70	5C	A362	DL14ah	
18#	TL322MP(A)	36		10u	8.0m	75n	500n	26	300k	24		1.0M	200	600m	70	5C	A405a	DL5Z	
19#	MC3303F	36		10u	10m	250n	1.0u	12	300k	12		9.0k	20	600m	70	4B	A362	DL14ah	
20#	SFC2310	36		10u	10m	10m	10n		10G	20		0.0			07	A122	TO99		
21#	SFC2310DC	36		10u	10m	10m	10n		10G	20		0.0			07		DL5a		
22#	SFC2310EC	36		10u	10m	10m	10n		10G	20		0.0			07		TO116		
23#	MC3403D	36		10u	12m	200n	800n	13	300k	12		9.0k	20	600m	70	07	A362	DL14ah	
24#	MC3403F	36		10u	12m	200n	800n	13	300k	12		9.0k	20	600m	70	07	A362	DL14ah	
25#	SFC2110M	36		12u	6.0m	10n	10n		10G	20		0.0			5C	A122	TO99		
26#	SFC2210	36		12u	6.0m	10n	10n		10G	20		0.0			28	A122	TO99		
27#	SFC2308	36		30u	10m	1.5n	10n	28	10M	26		94		80	07	A420	TO99		
28#	SFC2308A	36		30u	10m	1.5n	10n	28	10M	26		94		80	07		DL5a		
29#	SFC2308DC	36		30u	10m	1.5n	10n	28	10M	26		94		80	07		DL5a		
30#	LA6393M	36	3.0n	1.0m	5.0m	25n	25n	35				200			27	A409b	MD5a		
31#	SFC2776EM	36	500u	5.0u	2.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	5C	A187a	TO116	
32#	SFC2776M	36	500u	5.0u	2.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	5C	A187	TO99	
33#	SFC2776PM	36	500u	5.0u	2.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	5C	A187	TO99	
34#	SFC2778KM	36	500u	5.0u	2.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	5C		TO116	
35#	SFC2778M	36	500u	5.0u	2.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	5C		TO99	
36#	SFC2778PM	36	500u	5.0u	2.0m	3.0n	10n	36	3.0M	27	75k	300k	100	160n	70	5C		TO31	
37#	SFC2776C	36	1.0m	10u	3.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	07	A187	DL5a	
38#	SFC2776DC	36	1.0m	10u	3.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	07	A187a	TO99	
39#	SFC2776EC	36	1.0m	10u	3.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	07	A187a	TO116	
40#	SFC2778C	36	1.0m	10u	3.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	07		DL5a	
41#	SFC2778DC	36	1.0m	10u	3.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	07		DL5a	
42#	SFC2778EC	36	1.0m	10u	3.0m	3.0n	10n	36	3.0M	24	75k	300k	100	160n	70	07		TO116	
43#	LA6393D	36	3.0m	1.0m	5.0m	25n	25n	35				200			27	A409b	DL5a		
44#	LA6393S	36	3.0m	1.0m	5.0m	25n	25n	35				200			27	A530	MS39		
45#	LA6339	36	4.0m	2.0m	5.0m	25n	25n	35				200			27	A585	DL14ci		
46#	LA6339M	36	4.0m	2.0m	5.0m	25n	25n	35				200			27	A585	MD14b		
47#	TL068CLP	36	6.0m	10u	12m	2.0m	20n	24	10T	25		1.0M	7.0		65	27			
48#	CA3094AE	36	12m	7.0m	300n	700n	27	500k	27	2.0k	4.0k	86	500	70	5C	A207	DL5ad		
49#	CA3094AS	36	12m	7.0m	300n	700n	27	500k	27	2.0k	4.0k	86	500	70	5C	A207	CN46		
50#	CA3094AT	36	12m	7.0m	300n	700n	27	500k	27	2.0k	4.0k	86	500	70	5C	A207	DL002AL		
51#	MA403IP(A)	36	61m	20u	2.0m	50p	150p	30	1.0T	30	20m	1.0M	100	10	110	28	A014a	DL5ah	
52#	LM301AD	36	90m	30u	10m	70n	300n	24	500k	20	5.0m	800k	88	500m	70	07	A508	DL14af	
53#	MA406IP(A)	36	122m	20u	2.0m	50p	150p	30	1.0T	30	20m	1.0M	100	10	110	28	A182	DL5ah	
54#	SFC2761M	36	150m	6.0u	7.5m	300n	1.5u	27	200k	24	620	90	9.0	80	5C	A125a	CN44		
55#	SFC2761PM	36	150m	6.0u	7.5m	300n	1.5u	27	200k	24	620	90	9.0	80	5C	A125a	TO99		
56#	SFC2761T	36	150m	6.0u	7.5m	300n	1.5u	27	200k	24	620	90	9.0	80	28	A125a	CN44		
57#	uA248PC	36	172m	6.0m	6.0m	50n	200n		80M	20	2.0k	1.0M	88	50	70	07	A308		
58#	IA348PC	36	172m	6.0m	6.0m	50n	200n		80M	20	2.0k	1.0M	88	50	70	07	A308		
59#	SG310J	36	198m	10u	7.5m	7.0n	30	10G	20	10k	12M	0.0	20	80	07	A122	TO116		
60#	SG310M	36	198m	10u	7.5m	7.0n	30	10G	20	10k	12M	0.0	20	80	07	A122	DL14h		
61#	SG310N	36	198m	10u	7.5m	7.0n	30	10G	20	10k	12M	0.0	20	80	07	A122	TO99		
62#	SG310T	36	198m	10u	7.5m	7.0n	30	10G	20	10k	12M	0.0	20	80	07	A122	DL5a		
63#	SG310Y	36	198m	10u	10m	10n	20	10G	20	10k	12M	0.0	20	70	07	A200c	DL5a		
64#	SG110T	36	198m	12u	4.0m	3.0n	30n	10G	20	10k	12M	0.0	20	5C	A122	TO99			
65#	SG210T	36	198m	12u	4.0m	3.0n	30n	10G	20	10k	12M	0.0	20	28	A122	TO99			
66#	LM110H883	36	198m	12u	6.0m	10n	10n	10G	20	10k	12M	0.0	20	5C	A122	TO99			
67#	IC900B	36	201m	6.0m	200n	500n	26	1.0M	24	10k	14k	86	800m	90	07	A376	CH20		
68#	MA407	36	245m	20u	2.0m	50p	150p	30	1.0T	30	20m	1.0M	100	10	110	28		DL14ce	
69#	ICL7611ACTY	36	250m		3m	300p	400p	8.8	10T	9.8	1.0M	0.4M	86	16	80	07	A504a	TO99	
70#	ICL7611AMTY	36	250m		3m	300p	400p	8.8	10T	9.8	1.0M	0.4M	86	16	80	07	A504a	DL5ah	
71#	ICL7612ACPA	36	250m		3m	300p	500p	8.8	10T	9.8	1.0M	0.4M	86	16	80	07	A504a	TO99	
72#	ICL7612ACTY	36	250m		3m	300p	500p	8.8	10T	9.8	1.0M	0.4M	86	16	80	07	A504a	DL5ah	
73#	ICL7612AMTY	36	250m		3m	300p	400p	8.8	10T	9.8	1.0M	0.4M	86	16	80	07	A504a	TO99	
74#	ICL7613ACPA	36	250m		3.0m	300p	500p	8.8	10T	9.8	1.0M	0.4M	86	16	80	07	A504a	DL5ah	
75#	ICL7613ACTY	36	250m		3.0m	300p	500p	8.8	10T	9.8	1.0M	0.4M	86	16	80	07	A504a	TO99	
76#	ICL7613AMTY	36	250m		3m	300p	400p	8.8	10T	9.8	1.0M	0.4M	86	16	76	5C	A504b	TO99	
77#	ICL7614ACPA	36	250m		3m	300p	400p	8.8	10T	9.8	1.0M	0.4M	86	16	76	07	A504b	DL5ah	
78#	ICL7614ACTY	36	250m		3m	300p	400p	8.8	10T	9.8	1.0M	0.4M	86	16	76	5C	A504b	TO99	
79#	ICL7614AMTY	36	250m		3m	300p	400p	8.8	10T	9.8	1.0M	0.4M	86	16	76	5C	A504b	TO99	
80#	ICL7615ACPA	36	250m		3m	300p	400p	8.8											

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP RATED	SPECS	INPUT CHARACTERISTICS							MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C				T O M P E	DRAWINGS	OUT-LINE Δ=MO	
				OVER OPERATING TEMP. RANGE		MAX VOLTAGE		MAX CURRENT		MIN.-@25°C		CHAR.@25°C		3dB BW	O.L. VOLT. GAIN	SLEW RATE				CMRR
				1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	3 | DRIFT (V/°C)	4 | OFFSET (V)	5 | OFFSET (A)	6 | BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)							
1	ICL7615DCTY	36	250mZ		20m	300p	400p	8.8	10T+	9.6	100kZ	48mT	80	.16	70	07	A504b	TO99		
2	ICL7621DCPA	36	250mZ		20m	300p	400p	8.8	10T+	9.6	100kZ	48mT	80	.16	70	07	A504c	TO99		
3	ICL7621DCTY	36	250mZ		20m	300p	400p	8.8	10T+	9.8	100kZ	48mT	80	.16	70	07	A504c	TO99		
4	ICL7611ACPA	36	250mZ	10uT	3m	300p	400p	8.8	10T+	9.8	1.0MZ	0.4M	86	.16	70	07	A504a	DL8ah		
5	TL094M	36	300m	10uT	15m	200p	400p	12	10T	27	60m	1.0M	94	0.6	70	07				
6	uPC55D	36 *	300mΔ	20uS	5.0mS	200nS	800nS	9.0 *	100k	12	10kZ		66		70	28	A003a	DL8av		
7	uA771ATC	36	310mZ		2.0m	50p	100p	22	10T+	24		3.0M+	50 Δ	13	70	07	A396	DL8bj		
8	uA772ATC	36	310mZ		2.0m	50p	100p	22	10T+	24		3.0M+	50 Δ	13	70	07	A457a	DL8bj		
9	uA771BTC	36	310mZ		5.0m	50p	100p	22	10T+	24		3.0M+	50 Δ	13	70	07	A396	DL8bj		
10	uA772BTC	36	310mZ		5.0m	50p	100p	22	10T+	24		3.0M+	50 Δ	13	70	07	A457a	DL8bj		
11	uA771TC	36	310mZ		10m	100p	200p	22	10T+	24		3.0M+	50 Δ	13	70	07	A396	DL8bj		
12	uA772TC	36	310mZ		10m	100p	200p	22	10T+	24		3.0M+	50 Δ	13	70	07	A457a	DL8bj		
13	uA771LTC	36	310mZ		15m	100p	200p	22	10T+	24		3.0M+	50 Δ	13	70	07	A396	DL8bj		
14	uA774LPC	36	310m		15m	100p	200p	22	10T+	24		3.0M+	50 Δ	13	70	07	A308	DL14au		
15	uA308AHA	36	320m	5.0u	7.3m	1.5n	10n			26	10kZ		98		96	07	A420	CN1d		
16	uA308ATC	36	320m	5.0u	7.3m	1.5n	10n			26	10kZ		98		96	07	A420	DL8af		
17	uA308TC	36	320m	30u	10m	1.5n	10n			26	10kZ		84		80	07	A420	DL8af		
18	uPC802C	36 *	350mΔ		6.0mS	200nS	75nS	13 *		12	100kZ		95		70	27	A003a	DL8au		
19	uPC4250C	36 *	350mΔ		6.0mS	200nS	75nS	13 *		12	100kZ		95		70	07	A003a	DL8au		
20	uPC801C	36 *	350mΔ		15mS	200pS	400pS	10 *		12	10kZ	3.0M+	25 Δ	11	70	27	A003a	DL8au		
21	uPC801D	36 *	350mΔ		15mS	200pS	400pS	10 *		12	10kZ	3.0M+	25 Δ	11	70	28	A003a	DL8av		
22	uPC803C	36 *	350mΔ		15mS	200pS	400pS	10 *		12	10kZ	3.0M+	25 Δ	11	70	27	A292a	DL8au		
23	uPC4081C	36 *	350mΔ		15mS	200pS	400pS	10 *		12	10kZ	3.0M+	25 Δ	11	70	07	A003a	DL8au		
24	uPC4082C	36 *	350mΔ		15mS	200pS	400pS	10 *		12	10kZ	3.0M+	25 Δ	11	70	07	A292a	DL8au		
25	ICL7631ECPE	36	375mZ			15p	30p	8.8	10T+	8.9	1MZ	0.4M+	80	.16	70	07	A504e	DL16bx		
26	ICL7632ECPE	36	375mZ			15p	30p	8.8	10T+	8.9	1MZ	0.4M+	80	.16	70	07	A504e	DL16bx		
27	ICL7642ECPD	36	375mZ			15p	30p	8.8	10T+	9.8	1MZ	0.4M+	80	.16	70	07	A504f	DL14cn		
28	ICL7622ACPD	36	375mZ		3m	300p	400p	8.8	10T+	9.8	100kZ	48mT	86	.16	70	07	A504d	DL14cn		
29	ICL7622BCPD	36	375mZ		7m	300p	400p	8.8	10T+	9.8	100kZ	48mT	80	.16	70	07	A504d	DL14cn		
30	ICL7631BCPE	36	375mZ		7m	300p	500p	8.8	10T+	9.8	1MZ	0.4M+	86	.16	70	07	A504e	DL16bx		
31	ICL7632BCPE	36	375mZ		7m	300p	500p	8.8	10T+	9.8	1MZ	0.4M+	86	.16	70	07	A504e	DL16bx		
32	ICL7641BCPD	36	375mZ		7m	300p	500p	8.8	10T+	9.8	100kZ	48mT	86	.16	70	07	A504f	DL14cn		
33	ICL7642BCPD	36	375mZ		7m	300p	500p	8.8	10T+	9.8	1MZ	0.4M+	86	.16	70	07	A504f	DL14cn		
34	ICL7631CCPE	36	375mZ		10m	300p	500p	8.8	10T+	9.8	1MZ	0.4M+	80	.16	70	07	A504e	DL16bx		
35	ICL7632CCPE	36	375mZ		15m	300p	500p	8.8	10T+	8.9	1MZ	0.4M+	80	.16	70	07	A504e	DL16bx		
36	ICL7641CCPD	36	375mZ		15m	300p	500p	8.8	10T+	9.8	100kZ	48mT	80	.16	70	07	A504f	DL14cn		
37	ICL7642CCPD	36	375mZ		15m	300p	500p	8.8	10T+	9.8	1MZ	0.4M+	80	.16	70	07	A504f	DL14cn		
38	ICL7622DCPD	36	375mZ		20m	300p	400p	8.8	10T+	9.8	100kZ	48mT	80	.16	70	07	A504d	DL14cn		
39	ICL7641ECPD	36	375mZ		25m	300p	500p	8.8	10T+	9.8	100kZ	48mT	80	.16	70	07	A504f	DL14cn		
40	LM1458AN	36	400mZ		5.0m	60n	200n	26	300k	24			20 Δ	5.0	74	07	A409e	DL8bc		
41	uPC151G	36 *	440mΔ		6.0mS	200nS	500nS	12 *		12	10kZ		88		70	07	A003a	FP70		
42	uPC258G	36 *	440mΔ		6.0mS	200nS	500nS	12 *		12	10kZ		66	1.0	70	27	A292a	FP70		
43	uPC741G	36 *	440mΔ		6.0mS	200nS	500nS	12 *		12	10kZ		88		70	07	A003a	FP70		
44	uPC802G	36 *	440mΔ		6.0mS	200nS	75nS	13 *		12	100kZ		95		70	27	A003a	FP70		
45	uPC4250G	36 *	440mΔ		6.0mS	200nS	75nS	13 *		12	100kZ		95		70	07	A003a	FP70		
46	uPC4558G	36 *	440mΔ		6.0mS	200nS	500nS	12 *		12	10kZ		66	1.0	70	07	A292a	FP70		
47	uPC251G	36 *	440mΔ	3.0uS†	6.0mS	200nS	500nS	12 *	300k	12	10kZ		66		70	27	A292a	FP70		
48	uPC1458G	36 *	440mΔ	3.0uS†	6.0mS	200nS	500nS	12 *	300k	12	10kZ		66		70	07	A292a	FP70		
49	ICL7631ECJE	36	500mZ			15p	30p	8.8	10T+	8.9	1MZ	0.4M+	80	.16	70	07	A504e	DL16bw		
50	ICL7632ECJE	36	500mZ			15p	30p	8.8	10T+	8.9	1MZ	0.4M+	80	.16	70	07	A504e	DL16bw		
51	ICL7642ECJD	36	500mZ			15p	30p	8.8	10T+	9.8	1MZ	0.4M+	80	.16	70	07	A504f	DL14co		
52	uA308AHM	36	500mZ		500u	1.0n	7.0n	26	10M	26			80 Δ		96	07	A420b	TO99		
53	OP421BY(M)	36	500mZ		2.5m	5.0n	50n	3.5 Δ		700m			200 Δ	.25	83	5C	A362	DL14a		
54	OP421FY	36	500mZ		2.5m	5.0n	50n	3.5 Δ		700m			200 Δ	.25	83	2B	A362	DL14a		
55	ICL7622AMJD	36	500mZ		3m	800p	4.0n	8.8	10T+	9.8	100kZ	48mT	86	.16	70	5C	A504d	DL14co		
56	OP421CY(M)	36	500mZ		4.0m	10n	80n	3.5 Δ		800m			100 Δ	.25	80	5C	A362	DL14a		
57	OP421GY	36	500mZ		4.0m	10n	80n	3.5 Δ		800m			100 Δ	.25	80	2B	A362	DL14a		
58	LM833	36	500mZ		5.0m	200n	1.0u			24		15M	90	7.0	80	48	A390c	DL8Z		
59#	MC1458D	36	500mZ		6.0m	500n	1.5u	12		12		14kZ†	50 Δ	800m	70	07	A409e	DL8ah		
60	OP421HY	36	500mZ		6.0m	20n	150n	3.5 Δ		900m			100 Δ	.25	76	07	A362	DL14a		
61	TDB0146FP	36	500mZ		6.0m	100n	250n	27	1.0M†	24		500kS	50 Δ	0.4	70	07	A398	FPZ		
62	uPC151D	36 *	500mΔ		6.0mS	200nS	500nS	12 *		12	10kZ		88		70	28	A003a	DL8av		
63	uPC258D	36 *	500mΔ		6.0mS	200nS	500nS	12 *		12	10kZ		66	1.0	70	28	A292a	DL8av		
64	ICL7622BCJD	36	500mZ		7m	300p	400p	8.8	10T+	9.8	100kZ	48mT	80	.16	70	07	A504d	DL14co		
65	ICL7622BMJD	36	500mZ		7m	800p	4.0n	8.8	10T+	9.8	100kZ	48mT	80	.16	70	5C	A504d	DL14co		
66	ICL7632BCJE	36	500mZ		7m	300p	500p	8.8	10T+	8.9	1MZ	0.4M+	86	.16	70	07	A504e	DL16bw		
67	ICL7632BMJE	36	500mZ		7m	800p	4.0n	8.8	10T+	8.9	1MZ	0.4M+	86	.16	70	07	A504e	DL16bw		
68	ICL7641BCJD	36	500mZ		7m	300p	500p	8.8	10T+	9.8	100kZ	48mT	86	.16	70	07	A504f	DL14co		
69	ICL7641BMJD	36	500mZ		7m	800p	4.0n	8.8	10T+	9.8	100kZ	48mT	86	.16	70	5C	A504f	DL14co		
70	ICL7642BCJD	36	500mZ		7m	300p	500p	8.8	10T+	9.8	1MZ	0.4M+	86	.16	70	07	A504f	DL14co		
71	ICL7642BMJD	36	500mZ		7m	800p	4.0n	8.8	10T+	9.8	1MZ	0.4M+	86	.16	70	5C	A504f	DL14co		
72	LM308HJ	36	500mZ		7.5m	4.0n	7.0n	20	10M	24			25 Δ	500uT	80	07	A420b	TO5		
73	uA308HM	36	500mZ		7.5m	1.0n	7.0n	26	10M	26			25 Δ		80	07	A420b	TO99		
74#	uA747CH	36	500mZ		7.5m	300n	800n			10		25kS	500mT		70	07	A154b	TO5		
75#	uA748CD	36	500mZ		7.5m	300n	800n	12	300k	10		50 Δ	500mT		70	07	A337	MD8a		
76#	uA748CFE	36	500mZ		7.5m	300n	800n	12	300k	10		50 Δ	500mT		70	07	A337	DL8ah		
77	ICL7631CCJE	36	500mZ		10m	300p	500p	8.8	10T+	8.9	1MZ	0.4M+	80	.16	70	07	A504e	DL16bw		

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER

(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS							MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR. @ 25°C				T C O D P E	DRAWINGS	
		RATED	SPEC	OVER OPERATING TEMP. RANGE			MIN. @25°C		P.P VOLT. (ΔV)	P.P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/US)	CMRR (dB)					
				1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	3 | DRIFT (V/°C)	4 | OFST (V)	5 | OFFSET (A)							6 | BIAS (A)	7 | CM RANGE (ΔV)			8 | DIFF IMP. (Ω)
1	MA337	36	500mΔ	10u	100u	30p	100p	24	24	20m	3.0M\$	90 \$	15	90	57	A470			
2	OP12CZ(M)	36	500mΔ	10u	1.0m	.50n	5.0n	26	10M	26	1.0M\$	40 Δ	12 †	84	5C	A352a	DL8ba		
3	LF441CN	36	500mΔ	10u	1.0m	1.5n	3.0n	22	10T	24	1.0M\$	15m\$	1.0 †	70	27	A369e	DL8ba		
4	LF444CD	36	500mΔ	10u	10m	50p	3.0n	22	10T	24	1.0M\$	15m\$	1.0 †	70	07	A373g	DL14cc		
5	LF444CN	36	500mΔ	10u	10m	50p	3.0n	22	10T	24	1.0M\$	15m\$	1.0 †	70	07	A373g	DL14ce		
6	MA333CP	36	500mΔ	10u	10m	30p	100p	22	24	30m	150k\$	90	10	90	5A	A470			
7	MA334	36	500mΔ	10u	10m	30p	100p	22	24	30m	12M\$	100	35	90	5A	A470			
8	MA336CP	36	500mΔ	10u	10m	30p	100p	22	24	30m	150k\$	90 \$	10	90	5A	A531			
9	LF347D	36	500mΔ	10u	13m	4.0n	8.0n	11	1.0T†	12	4.0M\$	25 Δ	13	70	07	A362	DL14cc		
10	LF353H	36	500mΔ	10u	13m	4.0n	8.0n	11	1.0T†	12	4.0M\$	25 Δ	13	70	07	A373d	CN1d		
11	OP15CZ(M)	36	500mΔ	15u	3.0m	50p	200p	20	1.0T†	24	3.0M\$	50 Δ	5.0	82	5C	A291a	DL8ba		
12	OP15GZ	36	500mΔ	15u	3.0m	50p	200p	20	1.0T†	24	3.0M\$	50 Δ	5.0	82	07	A291a	DL8ba		
13	OP16CZ(M)	36	500mΔ	15u	3.0m	50p	200p	20	1.0T†	24	3.0M\$	50 Δ	5.0	82	5C	A291a	DL8ba		
14	OP16GZ	36	500mΔ	15u	3.0m	50p	200p	20	1.0T†	24	3.0M\$	50 Δ	5.0	82	07	A291a	DL8ba		
15	OP17CZ(M)	36	500mΔ	15u	3.0m	50p	200p	20	1.0T†	24	3.0M\$	50 Δ	5.0	82	5C	A291a	DL8ba		
16	OP17GZ	36	500mΔ	15u	3.0m	50p	200p	20	1.0T†	24	3.0M\$	50 Δ	5.0	82	07	A291a	DL8ba		
17	LF411CN	36	500mΔ	20u	2.0m	2.0n	4.0n	11	1.0T†	12	2.7M\$	25 Δ	8.0	70	07	A341b	DL8bo		
18	LF412CN	36	500mΔ	20u	3.0m	2.0n	4.0n	11	1.0T†	12	2.7M\$	25 Δ	8.0	70	07	A442	DL8bo		
19	LM308J8	36	500mΔ	30u	7.5m	1.0n	7.0n	14	10M	13	25 Δ	25	Δ	80	07	A420a	DL8bo		
20	uPC157D	36	500mΔ	30u\$	7.5m\$	50n\$	250n\$	12	*	500k	12	88		70	28	A003a	DL8av		
21#	LM301AFE	36	500mΔ	30u	10m	70n	300n	12			12	25 Δ		70	07	A419b	DL8ah		
22	ICL8043MDE	36	500mΔ	75u	20m	.50p†	20p	20	10M	24	1.0M\$	100	6.0 †	70	5C	A224	DL16v		
23	ICL8043CDE	36	500mΔ	75u	50m	.50p†	50p	20	10M	24	1.0M\$	86	6.0 †	70	07	A224	DL16v		
24	ICL8043CPE	36	500mΔ	75u	50m	.50p†	50p	20	10M	24	1.0M\$	86	6.0 †	70	07	A224	DL16w		
25	uPC452G	36	550mΔ	7.0m	50n	250n	26	26	20	2.0kΩ	30 \$		70	27	A292	DL14ca			
26	uPC3403G	36	550mΔ	7.0m	50n	250n	26	26	20	2.0kΩ	30 \$		70	07	A292	DL14ca			
27	LM13700N	36	570mΔ	4.0m	600u	5.0u	24	24	10k			50	80	07	A487	DL16bj			
28#	AN6554	36	570m	5.0m	50n	300n	15 Δ*	15			88	1.6 †	70	27	A504f	DL14jz			
29	uPC452C	36	570mΔ	7.0m	50n	250n	26	26	20	2.0kΩ	30 \$		70	27	A292	DL14ca			
30	uPC3403C	36	570mΔ	7.0m	50n	250n	26	26	20	2.0kΩ	30 \$		70	07	A292	DL14ca			
31	uPC804C	36	570mΔ	15m\$	200p\$	400p\$	10 *	10	*		12	10kΩ	3.0M\$	25 Δ	11 †	70	27	A308	DL14cd
32	uPC4084C	36	570mΔ	15m\$	200p\$	400p\$	10 *	10	*		12	10kΩ	3.0M\$	25 Δ	11 †	70	07	A308	DL14cd
33	LM13700J	36	600mΔ	4.0m	600u	5.0u	24	24	10k			50	80	07	A487	DL16k			
34	CA084BE	36	625mΔ	10u†	3.0m	10p	30p	24	1.5T	24	5.0MΩ	50		80	07	A504f	MO001b		
35	CA084AE	36	625mΔ	10u†	6.0m	20p	40p	24	1.5T	24	5.0MΩ	50		80	07	A504f	MO001b		
36	CA084E	36	625mΔ	10u†	15m	30p	50p	20	1.5T	24	5.0MΩ	25		70	07	A504f	MO001b		
37	CA3493AE	36	630m	3.0u	200u	5.0n	20n	10	10	27 †	1.2M\$	125 \$	25 †	115 †	28	A485	CN46		
38	CA3493AS	36	630m	3.0u	200u	5.0n	20n	10	10	27 †	1.2M\$	125 \$	25 †	115 †	28	A434	DL8p		
39	CA3493E	36	630m	5.0u	500u	10n	40n	10	10	27 †	1.2M\$	115 \$	25 †	110 †	07	A485	CN46		
40	CA3493S	36	630m	5.0u	500u	10n	40n	10	10	27 †	1.2M\$	115 \$	25 †	110 †	07	A434	DL8p		
41	uA771ARC	36	670mΔ	2.0m	100p	100p	22	22	10T†	24	3.0M†	50 Δ	13 †	80	07	A396	DL8bk		
42	uA771ARM	36	670mΔ	2.0m	50p	100p	22	22	10T†	24	3.0M†	50 Δ	13 †	80	5C	A396	DL8bk		
43	uA772ARC	36	670mΔ	2.0m	50p	100p	22	22	10T†	24	3.0M†	50 Δ	13 †	80	07	A457a	DL8bk		
44	uA772ARM	36	670mΔ	2.0m	50p	100p	22	22	10T†	24	3.0M†	50 Δ	13 †	80	5C	A457a	DL8bk		
45	uA771BRC	36	670mΔ	5.0m	50p	100p	22	22	10T†	24	3.0M†	50 Δ	13 †	80	07	A396	DL8bk		
46	uA771BRM	36	670mΔ	5.0m	50p	100p	22	22	10T†	24	3.0M†	50 Δ	13 †	80	5C	A396	DL8bk		
47	uA772BRC	36	670mΔ	5.0m	50p	100p	22	22	10T†	24	3.0M†	50 Δ	13 †	80	07	A457a	DL8bk		
48	uA772BRM	36	670mΔ	5.0m	50p	100p	22	22	10T†	24	3.0M†	50 Δ	13 †	80	5C	A457a	DL8bk		
49	uA747CD	36	670mΔ	7.5m	300n	800n	20	20		20	3.0M†	25k\$	500m†	70	07	A409c	MD14a		
50	uA771RC	36	670mΔ	10m	100p	200p	22	22	10T†	24	3.0M†	50 Δ	13 †	70	07	A396	DL8bk		
51	uA772RC	36	670mΔ	10m	100p	200p	22	22	10T†	24	3.0M†	50 Δ	13 †	70	07	A457a	DL8bk		
52	uA771LRC	36	670mΔ	15m	100p	200p	22	22	10T†	24	3.0M†	50 Δ	13 †	70	07	A396	DL8bk		
53	uA774LDC	36	670mΔ	15m	100p	200p	22	22	10T†	24	3.0M†	50 Δ	13 †	70	07	A308	DL14bt		
54	LF442CH	36	670mΔ	7.0u†	5.0m	1.5n	3.0n	11	10T†	12	600k\$	25 Δ	600m	70	07	A442	TO5		
55	LF441CH	36	670mΔ	10u†	5.0m	1.5n	3.0n	22	10T	24	1.0M\$	15m\$	1.0 †	70	27	A369c	TO5		
56	LF411CH	36	670mΔ	20u	2.0m	2.0n	4.0n	11	1.0T†	12	2.7M\$	25 Δ	8.0	70	07	A431	TO5		
57	LF411MH	36	670mΔ	20u	2.0m	25n	50n	11	1.0T†	12	2.7M\$	25 Δ	8.0	70	5C	A431	TO5		
58	LF412CH	36	670mΔ	20u	3.0m	2.0n	4.0n	11	10T†	12	2.7M\$	25 Δ	8.0	70	07	A442	TO5		
59	LF412MH	36	670mΔ	20u	3.0m	25n	50n	11	1.0T†	12	2.7M\$	25 Δ	8.0	70	5C	A442	TO5		
60	TDB0084DG	36	680mΔ	10u†	15m	200p	400p	20	1.0T†	24	3.0M†	25 Δ		70	07	A396d	TO116		
61	TDB0084DP	36	680mΔ	10u†	15m	200p	400p	20	1.0T†	24	3.0M†	25 Δ		70	07	A396d	TO116		
62	TDB0084FP	36	680mΔ	10u†	15m	5.0p†	400p	20	1.0T†	24	3.0M†	25 Δ		70	07	A396d	FPZ		
63	uPC259C	36	700mΔ	6.0m\$	200n\$	500n\$	12 *	12	*		12	2.0kΩ	66	2.8 †	70	27	A292a	DL8au	
64	uPC4560C	36	700mΔ	6.0m\$	200n\$	500n\$	12 *	12	*		12	2.0kΩ	66	2.8 †	70	07	A292a	DL8au	
65	TL0681LP	36	775m	0.2n					1.0T†				7.0 †	48		A396j			
66	TL136CJ	36	800mΔ	6.0m	200n	500n	24	24	300k	24	3.0MΩ	20 Δ	2.4 †	70	07	A549a	DL14jz		
67	TL136CN	36	800mΔ	6.0m	200n	500n	24	24	300k	24	3.0MΩ	20 Δ	2.4 †	70	07	A549a	DL14jz		
68	NE535H	36	800mΔ	7.0m	80n	200n	24	24	1.0M	20	1.0MΩ	20 Δ		70	07	A486	CN37b		
69	TL322LJG(A)	36	825mΔ	10u†	8.0m	75n	500n	24	300k	24	1.0MΩ	20 Δ	600m	70	48	A405a			
70	TL322CJG(A)	36	825mΔ	10u†	10m	50n	500n	26	300k	24	1.0MΩ	20 Δ	600m	70	07	A405a			
71	LM2908J	36	900mΔ	10m	200n	500n	24	8.0k	30k	24	50 Δ	500u†	70	07	A396d	DL14ap			
72	LM2908N	36	900mΔ	10m	200n	500n	24	8.0k	30k	24	50 Δ	500u†	70	07	A396d	DL14ap			
73	uPC804D	36	900mΔ	15m\$	200p\$	400p\$	10 *	10	*		12	10kΩ	3.0M\$	25 Δ	11 †	70	28	A308	DL14ca
74	NE535FE	36	1.0 †	6.0u	7.0m	80n	200n	24	1.0M	20	1.0MΩ	20 Δ	600m	70	07	A486	DL8aw		
75	TL322LP(A)	36	1.0 Δ	10u†	8.0m	75n	500n	24	300k	24	1.0MΩ	20 Δ	600m	70	48	A405a			
76	TL322MJG(A)	36	1.0 Δ	10u†	8.0m	75n	500n	26	300k	24	1.0MΩ	200 Δ	600m†	70	5C	A405a	DL8jz		
77	TL322CP(A)	36	1.0 Δ	10u†	10m	50n	500n	26	300k	24	1.0MΩ	20 Δ	600m	70	07	A405a			
78	HX0032C	36	1.5	25u	3.0m	50p	200p	20	10G	30									

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP RATED VOLT. (ΔV)	SPECS 2) MAX IDLE P (W)	INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS		
				OVER OPERATING RANGE		TEMP. RANGE		MIN. @25°C		MIN. OUTPUT CHAR. @25°C		3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/US)	CMRR (dB)	T O P E	D E	
				1) MAX VOLT. (V/°C)	3) DRIFT (V)	MAX VOLTAGE (V)	OFFSET (A)	MAX CURRENT (A)	BIAS (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)							P-P CUR. (ΔA)
1	JANM38510/10104BGC	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A174j	CN1t	
2	JANM38510/10104BHA	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A172e	FP31	
3	JANM38510/10104BHB	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A172e	FP31	
4	JANM38510/10104BHC	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		99	50m	96	5C	A172e	FP31	
5	JANM38510/10104BPA	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A291c	DL8ar	
6	JANM38510/10104BPB	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A291c	DL8ar	
7	JANM38510/10104BPC	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A291c	DL8ar	
8	JANM38510/10104CCA	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A173g	DL14bb	
9	JANM38510/10104CCB	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A173g	DL14bb	
10	JANM38510/10104CCC	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A173g	DL14bb	
11	JANM38510/10104CGA	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A174j	CN1t	
12	JANM38510/10104CGB	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A174j	CN1t	
13	JANM38510/10104CGC	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A174j	CN1t	
14	JANM38510/10104CHB	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A172e	FP31	
15	JANM38510/10104CHC	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A172e	FP31	
16	JANM38510/10104CPA	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A291c	DL8ar	
17	JANM38510/10104CPB	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A291c	DL8ar	
18	JANM38510/10104CPC	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A291c	DL8ar	
19	uA108AFM	40	18m	5.0u	1.0m	400p	3.0n	40 Δ	32	10kΩ		98	50m	96	5C	A291c	DL8ar	
20	uA108AHM	40	18m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420	FP2w	
21	uA208AFM	40	18m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420	CN1d	
22	uA208AHM	40	18m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420	FP2w	
23	uA108FM	40	18m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	94	50m	96	5C	A420	FP2w	
24	uA108HM	40	18m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	94	50m	96	5C	A420	CN1d	
25	uA208FM	40	18m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	94	50m	96	5C	A420	FP2w	
26	LM216AH	40	24m	6.0m	3.0p	100p	10n	26	5.0G	26	10kΩ	92	80	28	A206	CN1d		
27	LM316AH	40	24m	6.0m	3.0p	100p	10n	26	5.0G	26	10kΩ	92	80	28	A206	CN1d		
28	LM308AF	40	24m	5.0u	1.0m	400p	3.0n	28	10M	26	10kΩ	98	50m	96	5C	A420	DL14bn	
29	LM308AN	40	24m	5.0u	1.0m	400p	3.0n	28	10M	26	10kΩ	98	50m	96	5C	A420a	DL8ao	
30	LM308AT	40	24m	5.0u	1.0m	400p	3.0n	28	10M	26	10kΩ	98	50m	96	5C	A420b	CN1g	
31	AMLM108A	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A368	TO99	
32	AMLM108AD	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A368	DL14m	
33	AMLM108AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A368	FP18	
34	AMLM208A	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A368	TO99	
35	AMLM208AD	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A368	DL14m	
36	AMLM208AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A368	FP18	
37	LM108AD	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420	DL14cc	
38	LM108AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420d	FP37	
39	LM108AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420	DL14bn	
40	LM108AH	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420b	CN1d	
41	LM108AJ	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420	DL14cd	
42	LM108AT	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420b	CN1g	
43	LM208AD	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420a	DL8s	
44	LM208AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420d	FP37	
45	LM208AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420	DL14bn	
46	LM208AH	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420b	CN1d	
47	LM208AJ	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420	DL14cd	
48	LM208AJ	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420	DL14bk	
49	LM208AT	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	A420b	CN1g	
50	JANM38510/10104CHA	40	24m	5.0u	1.0m	400p	3.0n	40 Δ	20MΩ	32	10kΩ	350kΩ	98	50m	96	5C	A172e	FP31
51	PM108AJ	40	24m	5.0u	1.0m	400p	3.0n	26	30M	26	10kΩ	98	50m	96	5C	A420	TO99	
52	PM208AJ	40	24m	5.0u	1.0m	400p	3.0n	26	30M	26	10kΩ	98	50m	96	5C	A420	TO99	
53	SG108AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	300kΩ	94	3.0 †	96	5C	A452	FP2v
54	SG108AT	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	300kΩ†	92	100m†	96	5C	A420	TO99
55	SG108AY	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	300kΩ†	94	3.0 †	96	5C	A452	DL8s
56	SG208AM	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	300kΩ†	92	100m†	96	5C	A420	DL8h
57	SG208AT	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	300kΩ†	92	100m†	96	5C	A420	TO99
58	SG208AY	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kΩ	300kΩ†	94	3.0 †	96	5C	A452	DL8s
59	LM308F	40	24m	10u	10m	1.5n	10n	28	10M	26	10kΩ	15kΩ†	88	80	07	A420	DL14bn	
60	LM308N	40	24m	10u	10m	1.5n	10n	28	10M	26	10kΩ	15kΩ†	88	80	07	A420a	DL8ao	
61	LM308T	40	24m	10u	10m	1.5n	10n	28	10M	26	10kΩ	15kΩ†	88	80	07	A420b	TO99	
62	LM108H0	40	24m	15u	10m	400p	3.0n	27	30M	26	10kΩ	98	50m	96	5C	TO99		
63	AMLM108	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	94	50m	96	5C	A368	TO99	
64	AMLM108D	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	94	50m	96	5C	A368	DL14m	
65	AMLM108F	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	94	50m	96	5C	A368	FP18	
66	AMLM208	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	94	50m	96	5C	A368	TO99	
67	AMLM208D	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	94	50m	96	5C	A368	DL14m	
68	AMLM208F	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	94	50m	96	5C	A368	FP18	
69	LM108D	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	92	50m	96	5C	A420	DL14cc	
70	LM108DE	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	92	50m	96	5C	A420	DL8aa	
71	LM108F	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	92	50m	96	5C	A420d	FP37	
72	LM108F	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	15kΩ†	94	400m	85	5C	A420	DL14bn
73	LM108H	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	92	50m	96	5C	A420b	CN1d	
74	LM108J	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	1.0MΩ	98	50m	96	5C	A420	DL14cd
75	LM108N	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	15kΩ†	94	400m	85	5C	A420a	DL8ao
76	LM108T	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	15kΩ†	94	400m	85	5C	A420b	CN1g
77	LM112H	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	800kΩ	92	50m	96	5C	A206	CN1d
78	LM208D	40	24m	15u														

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @ 25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @ 25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS		
		1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		MIN. @ 25°C		P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	E O P E	C K T.	OUT. LINE Δ=MO
				3 | DRFT (V/°C)	4 | OFST (V)	5 | OFFSET (A)	6 | BIAS (A)	7 | CM RANGE (ΔV)	8 | DIFF IMP. (Ω)									
1	SG208T	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	300kΩ†	94	100m†	85	28	A420	TO99
2	SG208Y	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kΩ	300kΩ†	96	3.0 †	85	28	A452	DL8s
3	SN5210BJP	40	24m	15u	3.0m	400u	3.0n	27	30M	26	10kΩ	300kΩ†	94		85	5C	A198	DL8q
4	AMLM216D	40 †	32m		15m	100p	250p	26	1.0G	26	10kΩ		86		80	28	A206b	DL14m
5	LM216H	40 †	32m		15m	100p	250p	26	1.0G	26	10kΩ		86		80	07	A206	CN1d
6	LM316H	40 †	32m		15m	100p	250p	26	1.0G	26	10kΩ		86		80	07	A206	CN1d
7	AD101AH	40	72m	5.0u	2.0m	10n	75n	24	1.5M	24	10kΩ	8.0MΩ	94	10 †	80	5C	A419c	TO99
8	uA748ADM	40	85m	15u	3.0m	25n	100n	24	2.0M	24	10kΩ		94	500m†	80	5C	A337	
9	uA748AHM	40	85m	15u	3.0m	25n	100n	24	2.0M	24	10kΩ		94	500m†	80	5C	A337	
10	JANM38510/10103BCA	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A173a	DL14bb
11	JANM38510/10103BCB	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A173a	DL14bb
12	JANM38510/10103BCC	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A173a	DL14bb
13	JANM38510/10103BGA	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A174b	CN1t
14	JANM38510/10103BGB	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A174b	CN1t
15	JANM38510/10103BGC	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A174b	CN1t
16	JANM38510/10103BHA	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A172a	FP31
17	JANM38510/10103BHB	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A172a	FP31
18	JANM38510/10103BHC	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A172a	FP31
19	JANM38510/10103BPA	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A291b	DL8ar
20	JANM38510/10103BPB	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A291b	DL8ar
21	JANM38510/10103BPC	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A291b	DL8ar
22	JANM38510/10103CCA	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A173a	DL14bb
23	JANM38510/10103CCB	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A173a	DL14bb
24	JANM38510/10103CCC	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A173a	DL14bb
25	JANM38510/10103CGA	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A174b	CN1k
26	JANM38510/10103CGB	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A174b	CN1k
27	JANM38510/10103CGC	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A174b	CN1t
28	JANM38510/10103CHA	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A174b	FP31
29	JANM38510/10103CHB	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A172a	FP31
30	JANM38510/10103CHC	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A172a	FP31
31	JANM38510/10103CPA	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A291b	DL8ar
32	JANM38510/10103CPB	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A291b	DL8ar
33	JANM38510/10103CPC	40 †	90m	15u	3.0m	20n	100n	40 Δ		32	10kΩ		94	300m	80	5C	A291b	DL8ar
34	LM101F	40 †	100m	6.0u†	6.0m	500n	1.5u	24	300k	24	10kΩ		93		70	5C	A012	FP37
35	LM107F‡	40 †	100m	15u	3.0m	20n	100n	30	1.5M	32	10kΩ		94		80	5C	A352	DL14bn
36	LM107N	40 †	100m	15u	3.0m	20n	100n	30	1.5M	32	10kΩ		94		80	5C	A352a	DL8ao
37	LM107T	40 †	100m	15u	3.0m	20n	100n	30	1.5M	32	10kΩ	10	94		80	5C	A174c	CN1g
38	LM207F‡	40 †	100m	15u	3.0m	20n	100n	30	1.5M	32	10kΩ		96		80	28	A352	DL14bn
39	LM207N‡	40 †	100m	15u	3.0m	20n	100n	30	1.5M	32	10kΩ	5.0kΩ†	94		80	28	A352a	DL8ao
40	LM207T	40 †	100m	15u	3.0m	20n	100n	30	1.5M	32	10kΩ		94		80	28	A174c	CN1g
41#	SFC2201APT	40	100m	15u	3.0m	20n	100n	30	1.5M	24	10kΩ		99	500m†	80	28	A003b	TO91
42	JANM38510/10101BCA	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A173	DL14bb
43	JANM38510/10101BCB	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A173	DL14bb
44	JANM38510/10101BCC	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A173	DL14bb
45	JANM38510/10101BGA	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A174h	CN1t
46	JANM38510/10101BGB	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A174h	CN1t
47	JANM38510/10101BGC	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A174h	CN1t
48	JANM38510/10101BHA	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A172	FP31
49	JANM38510/10101BHB	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A172	FP31
50	JANM38510/10101BHC	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A172	FP31
51	JANM38510/10101BPA	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A291a	DL8ar
52	JANM38510/10101BPB	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A291a	DL8ar
53	JANM38510/10101BPC	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A291a	DL8ar
54	JANM38510/10101CCA	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A173	DL14bb
55	JANM38510/10101CCB	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A173	DL14bb
56	JANM38510/10101CCC	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A173	DL14bb
57	JANM38510/10101CGA	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A174h	CN1t
58	JANM38510/10101CGB	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A174h	CN1t
59	JANM38510/10101CGC	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A174h	CN1t
60	JANM38510/10101CHA	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A172	FP31
61	JANM38510/10101CHB	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A172	FP31
62	JANM38510/10101CHC	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A172	FP31
63	JANM38510/10101CPA	40 †	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A291a	DL8ar

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED	SPECS	INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				T E O M P E	C K T.	D R A W I N G S		
				1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)				SLEW RATE (V/μS)	CMRR (dB)
						3 | DRFT (V/°C)	4 | OFST (V)	MAX VOLTAGE	MAX CURRENT												MIN. @25°C	MIN. @25°C
1	JANM38510/10101CPB	40	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A291a	DL8ar		
2	JANM38510/10101CPC	40	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A291a	DL8ar		
3	LM101AH883	40	114m	15u	4.0m	70n	265n	40 Δ		32	10kΩ		94	300m	80	5C	A291a	DL8ar		
4	LM107H883	40	120m	15u	3.0m	20n	100n			32	10kΩ		94	200m	80	5C	A012	TO99		
5	LM101F883	40	120m	15u	3.0m	20n	100n			32	10kΩ		94	200m	80	5C	A012	TO99		
6	SG101F	40	120m	3.0u†	5.0m§	500n	1.5u	24		24	10kΩ	500kΩ†	96	3.0 †	70	5C	A172a	FP2v		
7	SG101J	40	120m	3.0u†	5.0m§	500n	1.5u	24		24	10kΩ	500kΩ†	93	500m†	70	5C	A012	TO116		
8	SG101Y	40	120m	3.0u†	5.0m§	500n	1.5u	24		24	10kΩ	500kΩ†	93	500m†	70	5C	A012	TO99		
9	LH0003CH	40	120m	4.0u†§	3.0m§	200n§	2.0u§	40		100k†	20	100 Ω	87	3.0 †	70	0B	A004	CN8		
10	LH0003H	40	120m	4.0u†§	3.0m§	200n§	2.0u§	40		100k†	20	100 Ω	87	3.0 †	70	5C	A004	CN8		
11	CA101S	40	120m	6.0u†	6.0m	200n§	500n§	24		300k	24	10kΩ	94		70	5C	A508	CN46		
12	CA101T	40	120m	6.0u†	6.0m	200n§	500n§	24		300k	24	10kΩ	94		70	5C	A508	Δ002AL		
13	LM101FZ	40	120m	6.0u†	6.0m	200n§	500n§	24		300k	32	10kΩ	94		70	5C	A419a	DL14bn		
14	LM101N	40	120m	6.0u†	6.0m	200n§	500n§	24		300k	32	10kΩ	94		70	5C	A419b	DL8ao		
15	LM101N-14	40	120m	6.0u†	6.0m	200n§	500n§	24		300k	32	10kΩ	94		70	5C	A419a	DL14aw		
16	LM101T	40	120m	6.0u†	6.0m	200n§	500n§	24		300k	32	10kΩ	94		70	5C	A419c	CN1g		
17	μA101HM	40	120m	6.0u†	6.0m	500n§	1.5u§	24		300k	24	10kΩ	94		70	5C	A419a	CN1d		
18	CA201S	40	120m	10u†	10m	500n§	1.5u§	24		100k	24	10kΩ	86		65	07	A508	CN46		
19	CA201T	40	120m	10u†	10m	500n§	1.5u§	24		100k	24	10kΩ	86		65	07	A508	Δ002AL		
20	LM201F	40	120m	10u†	10m	500n§	1.5u§	24		100k	24	10kΩ	86		65	07	A012	FP37		
21	LM201N	40	120m	10u†	10m	500n§	1.5u§	24		100k	32	10kΩ	86		65	07	A419b	DL8ao		
22	LM201N-14	40	120m	10u†	10m	500n§	1.5u§	24		100k	32	10kΩ	86		65	07	A419b	DL14aw		
23	LM201T	40	120m	10u†	10m	500n§	1.5u§	24		100k	32	10kΩ	86		65	07	A419c	CN1g		
24	SG101AJ	40	120m	15u	2.0m§	20n	100n	30		1.5M	20	2.0kΩ	600kΩ†	87	500m†	80	5C	A012	TO116	
25	SG101AT	40	120m	15u	2.0m§	20n	100n	30		1.5M	20	2.0kΩ	600kΩ†	87	500m†	80	5C	A012	TO99	
26	LM101AD	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	100 †	94		80	5C	A508	DL14e	
27	LM101ADE	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	100k†	94	200m	80	5C	A508	DL8aa	
28	LM101AF	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	100 †	94		80	5C	A508	FP2v	
29	LM101AFZ	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	10MΩ†	94		80	5C	A419a	DL14bn	
30	LM101AH0	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	100k†	94	200m	80	5C	A419a	TO99	
31	LM101AH	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	100 †	94		80	5C	A508	TO99	
32	LM101AJ14	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	100 †	94	10 †	80	5C	A508	DL14bf	
33	LM101AJ	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	100 †	94		80	5C	A419a	DL14ah	
34	LM101AJZ	40	120m	15u	3.0m	20n	100n	30		1.5M	20	2.0kΩ	100 †	94		80	5C	A508	DL8s	
35	LM101AJG	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	100 †	94		80	5C	A419b	DL8v	
36	LM101AN	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	100 †	94		80	5C	A419b	DL8ao	
37	LM101AN-14	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	10MΩ†	94		80	5C	A419a	DL14aw	
38	LM101AP	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	10MΩ†	94		80	5C	A419a	DL8q	
39	LM101AT	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	100 †	94		80	5C	A419c	CN1g	
40	LM101AU	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	100 †	94		80	5C	A351	Δ004AA	
41	LM107DE	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	5C	A235	DL8aa		
42	LM107F	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	5C	A235	FP37		
43	LM107H	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	92		80	5C	A235	CN1d		
44	LM107J14	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	92		80	5C	A235	DL14bf		
45	LM107J	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	5C	A235	FP37		
46	LM107JG	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	5C	A352a	DL8v		
47	LM107P	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	5C	A373c	DL8q		
48	LM107U	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	5C	A352b	Δ004AA		
49	LM201AF	40	120m	15u	3.0m	500n§	1.5u§	30		1.5M	32	10kΩ	1.0MΩ†	94		80	2B	A419a	DL14bn	
50	LM201AFZ	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	1.0MΩ†	94		80	2B	A419a	DL14bn	
51	LM201AH	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	100 †	94		80	2B	A508	CN1d	
52	LM201AHZ	40	120m	15u	3.0m	20n	100n	30		1.5M	20	2.0kΩ	100 †	94		80	2B	A508	CN1d	
53	LM201AJ14	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	07	A508	DL14bf		
54	LM201AJ	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	2B	A508	DL8b		
55	LM201AJZ	40	120m	15u	3.0m	20n	100n	30		1.5M	20	2.0kΩ	94		80	2B	A508	DL8s		
56	LM201AJG	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	10MΩ†	94		80	2B	A419b	DL8ao	
57	LM201AN	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	10MΩ†	94		80	2B	A419a	DL14aw	
58	LM201AN-14	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	10MΩ†	94		80	2B	A419a	DL14aw	
59	LM201AT	40	120m	15u	3.0m	20n	100n	30		1.5M	32	10kΩ	10MΩ†	94		80	2B	A419c	CN1g	
60	LM207H	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	92		80	2B	A235	CN1d		
61	LM207J14	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	92		80	2B	A235	DL14bf		
62	LM207J	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	92		80	2B	A235	TO116		
63	LM207JZ	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	2B	A235	DL8aq		
64	LM207JG	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	2B	A352a	DL8v		
65	LM207N	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	2B	A352	DL14bw		
66	LM207P	40	120m	15u	3.0m	20n	100n	30		1.5M	24	10kΩ	94		80	2B	A352a	DL8p		

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS				
		1 | TOT. VOLT. (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX VOLTAGE		MAX CURRENT		MIN. RANGE (ΔV)	DIFF IMP. (Ω)	P.P. VOLT. (ΔV)	P.P. CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	T E O M D P E	C K T.	OUT-LINE Δ=MO
				3 | DRFT (V/°C)	4 | OFST (V)	OFFSET (A)	BIAS (A)	MIN. @25°C	MAX. @25°C											
1	JANM38510/10105CEB*	40	180m	15u	3.0m	20n	100n	40 Δ	32	10kΩ	32	10kΩ	100	94	300m	80	5C	A335	DL16bd TO99	
2	3522K	40	200m	25u	500u	1.0p	5.0p	30	100G+	20	10	1.0M+	100	600m	80	07				
3	3522L	40	200m	25u	500u	500f	1.0p	30	100G+	20	10	1.0M+	100	600m	90	07			TO99	
4	3522S	40	200m	25u	500u	1.0p	5.0p	30	100G+	20	10	1.0M+	100	600m	90	07			TO99	
5	3522J	40	200m	50u	1.0m	2.0p	10p	30	100G+	20	10	1.0M+	94	500m	90	07			TO99	
6	3542J	40	200m	50u	20m	2.0p	25p	30	100G+	20	20	1.0M+	88	500m	80	07			TO99	
7	3542S	40	200m	50u	20m	2.0p	25p	30	100G+	20	20	1.0M+	88	500m	80	07			TO99	
8	SU536T	40	220m	20u	50m	5.0p	1.0n	20	10T+	20	2.0kΩ	1.0MΩ	93	6.0	70	28			CN1g	
9	3510VM(M)	40	225mΔ	2.0u	350u	55n	85n	10	1.5M	11	5.0	250kΩ	120	0.5	110	5C	A356	TO99		
10	OPA105VM(M)	40	225mΔ	5.0u	250u	0.2p	1.0p	10	10T	10	5.0	1.0MΩ	106	0.9	76	5C	A390	TO99		
11	3500U(M)	40	225mΔ	20u	5.0m	30n	30n	11	1.0k	10	10	1.0MΩ	93	0.6	90	5C	A373b	TO99		
12	OPA105UM(M)	40	225mΔ	25u	250u	0.2p	1.0p	10	10T	10	5.0	1.0MΩ	106	0.9	76	5C	A390	TO99		
13	JANM38510/10102BAA*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	FP24d		
14	JANM38510/10102BAB*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	FP24d		
15	JANM38510/10102BAC*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	FP24d		
16	JANM38510/10102BCA*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	DL14bb		
17	JANM38510/10102BCB*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	DL14bb		
18	JANM38510/10102BCC*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	DL14bb		
19	JANM38510/10102BIA*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192a	CN10e		
20	JANM38510/10102BIB*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192a	CN10e		
21	JANM38510/10102BIC*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192a	CN10e		
22	JANM38510/10102CAA*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	FP24d		
23	JANM38510/10102CAB*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	FP24d		
24	JANM38510/10102CAC*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	FP24d		
25	JANM38510/10102CCA*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	DL14bb		
26	JANM38510/10102CCB*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	DL14bb		
27	JANM38510/10102CCC*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192	DL14bb		
28	JANM38510/10102CIA*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192a	CN10e		
29	JANM38510/10102CIB*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192a	CN10e		
30	JANM38510/10102CIC*	40	228m	15u	4.0m	70n	265n	40 Δ	32	10kΩ	32	10kΩ	94	300m	80	5C	A192a	CN10e		
31	JANM38510/10107BGA	40	240m	25u	6.0m	80n	400n	40 Δ	34	10kΩ	34	10kΩ	94	50	80	5C	A336	CN1t		
32	JANM38510/10107BGC	40	240m	25u	6.0m	80n	400n	40 Δ	34	10kΩ	34	10kΩ	94	50	80	5C	A336	CN1t		
33	JANM38510/10107BHC	40	240m	25u	6.0m	80n	400n	40 Δ	34	10kΩ	34	10kΩ	94	50	80	5C	A336	FP31		
34	JANM38510/10107CGA	40	240m	25u	6.0m	80n	400n	40 Δ	34	10kΩ	34	10kΩ	94	50	80	5C	A336	CN1t		
35	JANM38510/10107CGC	40	240m	25u	6.0m	80n	400n	40 Δ	34	10kΩ	34	10kΩ	94	50	80	5C	A336	CN1t		
36	JANM38510/10107CHC	40	240m	25u	6.0m	80n	400n	40 Δ	34	10kΩ	34	10kΩ	94	50	80	5C	A336	FP31		
37	HA5100-2	40	280m	5.0u	2.0m	5.0n	10n	20 Δ	10T+	24	10kΩ	18MΩ	97	6.0	86	5C	A455	TB99		
38	HA5110-2	40	280m	5.0u	2.0m	5.0n	10n	20	10T+	24	20m	60MΩ	97	40	86	5C	A455	TO99		
39	HA5100-5	40	280m	10u	2.0m	5.0n	10n	20	10T+	24	10kΩ	18MΩ	97	6.0	86	07	A455	TO99		
40	HA5110-5	40	280m	10u	2.0m	5.0n	10n	20	10T+	24	20m	60MΩ	97	40	86	5C	A455	TO99		
41#	SFC2318UC	40	300m	15u	15m	300n	750n	20	500k	24	20	15M	20	Δ	70	07	A003a	MD8a		
42	AM430B	40	300m	600n	25u	2.0n	2.0n	12	30M	20	50m	2.5M	100k	500	100	07	A582	TO99		
43	HA5130-2	40	300m	600n	60u	4.0n	4.0n	24	30M+	20	50m	10kΩ	120	500m	110	5C	A373b	TO99		
44	HA5130-5	40	300m	600n	60u	4.0n	4.0n	24	30M+	20	50m	10kΩ	120	500m	110	07	A373b	DL8af		
45	HA5130-8	40	300m	600n	60u	4.0n	4.0n	24	30M+	20	50m	10kΩ	120	500m	110	5C	A373b	DL8af		
46	AM430A	40	300m	1.3u	75u	4.0n	4.0n	12	30M	20	50m	2.5M	100k	500m	100	07	A582	TO99		
47	AM430M	40	300m	1.3u	75u	4.0n	4.0n	12	30M	20	50m	2.5M	100k	500m	100	5C	A582	TO99		
48	HA5135-2	40	300m	1.3u	130u	6.0n	5.5n	24	30M+	20	50m	10kΩ	120	500m	106	5C	A373c	TO99		
49	HA5135-5	40	300m	1.3u	130u	6.0n	5.5n	24	30M+	20	50m	10kΩ	120	500m	106	07	A373c	DL8af		
50	HA5135-8	40	300m	1.3u	130u	6.0n	5.5n	24	30M+	20	50m	10kΩ	120	500m	106	5C	A373c	DL8af		
51	uA208HM	40	300m	15u	2.0m	20n	70M+	26	10kΩ	26	10kΩ	88	50	85	5C	A420	CN1d			
52	AMLM118	40	320m	6.0m	100n	500n	500n	23	1.0M	24	2.0kΩ	15M+	92	50	80	5C	A245	TO99		
53	AMLM118D	40	320m	6.0m	100n	500n	500n	23	1.0M	24	2.0kΩ	15M+	92	50	80	5C	A245b	DL14m		
54	AMLM118F	40	320m	6.0m	100n	500n	500n	23	1.0M	24	2.0kΩ	15M+	92	50	80	5C	A245a	FP18		
55	AMLM218	40	320m	6.0m	100n	500n	500n	23	1.0M	24	2.0kΩ	15M+	92	50	80	28	A245	TO99		
56	AMLM218D	40	320m	6.0m	100n	500n	500n	23	1.0M	24	2.0kΩ	15M+	92	50	80	28	A245b	DL14m		
57	HA5105-5	40	320m	15u	3.5m	10n	20n	20 Δ	10T+	22	10kΩ	18MΩ	94	5.0	80	07	A455	TO99		
58	HA5115-5	40	320m	15u	3.5m	10n	20n	20	10T+	22	16m	50MΩ	94	35	80	07	A455	TO99		
59	uPC159C	40	350mΔ	10m	200n	500n	500n	23	500k	24	20	15M	50	70	27	A003	DL8av			
60	uPC318C	40	350mΔ	10m	200n	500n	500n	23	500k	24	20	15M	50	70	07	A003	DL8av			
61#	LS201M	40	400m	10m	500n	1.5u	1.5u	24	0.1M	24	0	20kΩ	86	50	65	07	A508	MD8a		
62	AMLM318	40	400m	15m	300n	750n	750n	23	500k	24	2.0kΩ	15M+	86	50	70	07	A245	TO99		
63	AMLM318D	40	400m	15m	300n	750n	750n	23	500k	24	2.0kΩ	15M+	86	50	70	07	A245b	DL14m		
64	LM108AJ8J	40	500m	250u	2.0n	2.0n	2.0n	24	10M	20	120	500u	106	5C	A420a	DL8af				
65	LM308AJHJ	40	500m	250u	2.0n	2.0n	2.0n	24	10M	20	120	500u	106	5C	A420b	TO5				
66	LM308AJ8J	40	500m	250u	2.0n	2.0n	2.0n	24	10M	20	120	500u	106	5C	A420a	DL8af				
67	CTS2108AEB(A)	40	500m	200u	2.0n	2.0n	2.0n	24	26	20	50	Δ	0.1	96	5C	A420c	DL16cv			
68	LH2101AD	40	500m	2.0m	10n	75n	75n	30 *	24	0	10kΩ	20	10	80	5C	A220	DL16u			
69#	TDC0118CM	40	500m	7.5m	100n	600n	600n	23	3.0M	24	15M	25	Δ	50	80	07	A003b	TO99		
70	SFC2318	40	500m	10m	200n	500n	500n	23	500k	24	20	15M	50	70	07	A003b	TO99			
71	uPC159D	40	500m	10m	200n	500n	500n	11 *	500k	12	2.0kΩ	88	50	70	28	A003a	DL8av			
72#	SFC2318DC	40	500m	15m	300n	750n	750n	23	500k	24	20	15M	20	Δ	50	70	07	A003a	DL8bf	
73#	TDB0118CM	40	500m	15m	300n	1.0u	1.0u	23	3.0M	23	15M	20	Δ	50	70	28	A			

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C			DRAWINGS			
		1 | TOT. (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE			MIN.-@25°C			CHAR.@25°C		3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/US)	CMRR (dB)	E O M D P E	T C	
				3 | MAX VOLTAGE (V/°C)	4 | DRIFT (V)	5 | OFFSET (A)	6 | MAX CURRENT (A)	7 | BIAS (ΔV)	8 | CM RANGE (ΔV)	9 | DIFF IMP. (Ω)	10 | P.P. VOLT. (ΔV)							11 | P.P. CUR. (ΔA)
1	LM11CLH	40	500mΔ	3.0u†	500m	25p	300p	100G				300 §		110	07	A206	CN1d	
2	LM11CLN	40	500mΔ	3.0u†	500m	25p	300p	100G				300 §		110	07	A200d	DL8ah	
3	LM11CLN-14	40	500mΔ	3.0u†	500m	25p	300p	100G				300 §		110	07	A206b	DL14ce	
4	OP12BZ(M)	40	500mΔ	3.5u	.30m	20n	2.0n	26	26M	26	0.8m†	80 Δ	.12 †	104	5C	A352a	DL8ba	
5	OP12FZ	40	500mΔ	3.5u	.45m	0.6n	5.2n	26M	26M	26		80 Δ	.12 †	102	07	A34a		
6	OP12BZ #mil	40	500mΔ	3.5u	.6m	0.4n	3.0n	26M	26M	26		80 Δ	.12 †	100	5C	A174c	TO99	
7	LM108AJ8	40	500mΔ	5.0u	500u	200p	2.0n	13	30M	13		80 Δ		96	5C	A420a	DL8bp	
8	LM208AJ8	40	500mΔ	5.0u	500u	200p	2.0n	13	30M	13		80 Δ		96	28	A420a	DL8bp	
9	LM11CJ8	40	500mΔ	5.0u	800u	20p	150p	100G				100 Δ		100	07	A206	DL8s	
10	LM11CJ	40	500mΔ	5.0u	800u	20p	150p	100G				100 Δ		100	07	A206b	DL14bk	
11	PM108AZ #mil	40	500mΔ	5.0u	1.0m	0.4n	3.0n	30M	26	Ø		80 Δ		96	Ø	A291c	DL8j	
12#	SFC2108A	40	500mΔ	5.0u	1.0m	400p	3.0n	30M	26			80 Δ	10 †	96	5C	A368	TO99	
13	LM11CD	40	500mΔ	5.0u	600m	10p	150p	100G				300 §		130	07	A206b	DL14cc	
14	LM11CH	40	500mΔ	5.0u	600m	10p	150p	100G				300 §		130	07	A206	CN1d	
15	LM11CN	40	500mΔ	5.0u	600m	10p	150p	100G				300 §		130	07	A200d	DL8ah	
16	LM11CN-14	40	500mΔ	5.0u	600m	10p	150p	100G				300 §		130	07	A206b	DL14ce	
17	LH101F	40	500mΔ	6.0u†	6.0m	500n	1.5u	24	300k	24	10kØ	93		70	5C	A011a	FP37	
18	LH101H	40	500mΔ	6.0u†	6.0m	500n	1.5u	24	300k	24	10kØ	93		70	5C	A001	CN1d	
19	HA5084B5	40	500mΔ	8.3u†	4.0m	2.0n	4.0n	20	10T†	10	10m	240k†	50k§	15 †	80	07	A415	DL14o
20	HA5084A5	40	500mΔ	8.3u†	7.0m	4.0n	8.0n	20	10T†	10	10m	240k†	50k§	15 †	80	07	A415	DL14o
21	HA5084-2	40	500mΔ	8.3u†	8.0m	5.0n	5.0n	20	10T†	10	10m	240k†	50k§	15 †	80	5C	A415	DL14ap
22	HA5084-8	40	500mΔ	8.3u†	8.0m	2.0n	5.0n	20	10T†	10	10m	240k†	50k§	15 †	80	5C	A415	DL14ap
23	HA5084-5	40	500mΔ	8.3u†	2.0m	5.0n	1.0n	20	10T†	10	10m	240k†	50k§	15 †	70	5C	A415	DL14o
24	OP08CZ(M)	40	500mΔ	10u	1.0m	.50n	5.0n	26	10M	26		40 Δ	.12 †	84	5C	A420a	DL8ba	
25	OP08GZ	40	500mΔ	10u	1.0m	.50n	5.0n	26	10M	26		40 Δ	.12 †	84	07	A420a	DL8ba	
26	HA5064B5(A)	40	500mΔ	10u†	5.0m	3.0n	7.0n	20	10T†	20	2.0m	63kØ	20k§	2.0	80	07	A415	DL14o
27	HA5064A5(A)	40	500mΔ	10u†	7.5m	3.0n	7.0n	20	10T†	20	2.0m	63kØ	20k§	2.0	80	07	A415	DL14o
28	HA5064-2	40	500mΔ	10u†	9.0m	2.0n	5.0n	20	10T†	20	2.0m	63kØ	20k§	2.0	80	5C	A415	DL14o
29	LH201H	40	500mΔ	10u†	1.0m	750n	2.0u	24	150k	24	10kØ	86		65	07	A001	CN1d	
30	LM108J8	40	500mΔ	15u	2.0m	200p	2.0n	13	30M	13		50 Δ		85	5C	A420a	DL8bo	
31	LM208J8	40	500mΔ	15u	2.0m	200p	2.0n	13	30M	13		50 Δ		85	28	A420a	DL8bo	
32	PM108Z #mil	40	500mΔ	15u	3.0m	0.4n	3.0n	30M	26	Ø		50 Δ		85	Ø	A291c	DL8i	
33	PM208Z	40	500mΔ	15u	3.0m	0.4n	3.0n	30M	26	Ø		50 Δ		85	Ø	A291c	DL8j	
34#	SFC2101AGM	40	500mΔ	15u	3.0m	2.0n	100n	1.5M	20			50 Δ	0.5 †	80	5C	A369e	DL8bf	
35#	SFC2201AUT	40	500mΔ	15u	3.0m	2.0n	100n	1.5M	20			50 Δ	0.5 †	80	28	A369e	MD8a	
36	HA5064-5(A)	40	500mΔ	20u†	2.0m	5.0n	1.0n	20	10T†	20	2.0m	63kØ	10k§	2.0	70	07	A415	DL14o
37*	2108A	40	500m	5.0m	1.0m	0.4n	3.0n	30M	13		5.0m			96				
38#	LS101AT	40	520mΔ		3.0m	2.0n	0.1u	1.5M	24	Ø				80	Ø	A206	TO99	
39#	LS107T	40	520mΔ		3.0m	2.0n	100n	1.5M	24	Ø				80	Ø	A358	TO99	
40#	LS201AT	40	520mΔ		3.0m	2.0n	0.1u	1.5M	24	Ø				80	Ø	A508	TO99	
41#	LS207T	40	520mΔ		3.0m	2.0n	100n	1.5M	24	Ø				80	Ø	A235	TO99	
42#	LS101T	40	520mΔ		6.0m	200n	0.5u	0.3M	24	Ø				70	Ø	A508	TO99	
43#	LS201T	40	520mΔ		1.0m	500n	1.5u	0.1M	24	Ø				65	Ø	A508	TO99	
44	uPC458G	40 *	550mΔ		5.0m	50n	300n	12 *	12		10kØ	88	1.6 †	80	27	A308	FP71	
45	uPC4741G	40 *	550mΔ		5.0m	50n	300n	12 *	12		10kØ	88	1.6 †	80	07	A308	FP71	
46	HA5082B5	40	600mΔ	10u†	4.0m	2.0n	4.0n	20	10T†	20	10m	240k†	50k§	15 †	80	07	A409b	DL8af
47	HA5062B5	40	600mΔ	10u†	5.0m	3.0n	7.0n	20	10T†	20	10m	240k†	50k§	4.0 †	80	07	A409b	DL8af
48	HA5082A5	40	600mΔ	10u†	7.0m	4.0n	8.0n	20	10T†	20	10m	240k†	50k§	15 †	80	07	A409b	DL8af
49	HA5062A5	40	600mΔ	10u†	7.5m	3.0n	7.0n	20	10T†	20	10m	240k†	50k§	4.0 †	80	07	A409b	DL8af
50	HA5082-2	40	600mΔ	10u†	8.0m	2.0n	5.0n	20	10T†	20	10m	240k†	50k§	15 †	80	5C	A409a	TO99
51	HA5062-2	40	600mΔ	10u†	9.0m	2.0n	5.0n	20	10T†	20	10m	240k†	50k§	4.0 †	80	5C	A409a	TO99
52	HA5062-5	40	600mΔ	10u†	2.0m	5.0n	1.0n	20	10T†	20	10m	240k†	50k§	4.0 †	70	07	A409b	DL8af
53	HA5082-5	40	600mΔ	10u†	2.0m	5.0n	1.0n	20	10T†	20	10m	240k†	50k§	15 †	70	07	A409b	DL8af
54#	LS201B	40	665mΔ		1.0m	500n	1.5u	0.1M	24	Ø				65	Ø	A508	8-36	
55#	TD00155ACM	40	670mΔ	5.0u	2.5m	10p	50p	1.0T†	20		2.5M†	3.0		85	5C	A369c	TO99	
56#	TD00156ACM	40	670mΔ	5.0u	2.5m	10p	50p	1.0T†	20		4.0M†	10		85	5C	A369c	TO99	
57#	TD00157ACM	40	670mΔ	5.0u	2.5m	10p	50p	1.0T†	20		15M†	40		85	5C	A369c	TO99	
58#	TD00155CM	40	670mΔ	5.0u	6.5m	20p	100p	1.0T†	20		2.5M†	5.0 †		85	28	A369c	TO99	
59#	TD00156CM	40	670mΔ	5.0u	6.5m	20p	100p	1.0T†	20		5.0M†	7.5 †		85	28	A369c	TO99	
60#	TD00157CM	40	670mΔ	5.0u	6.5m	20p	100p	1.0T†	20		20M†	30		85	28	A369c	TO99	
61#	TD00155CM	40	670mΔ	5.0u	7.0m	20p	100p	1.0T†	20		2.5M†	5.0 †		85	5C	A369c	TO99	
62#	TD00156CM	40	670mΔ	5.0u	7.0m	20p	100p	1.0T†	20		5.0M†	7.5 †		85	5C	A369c	TO99	
63#	TD00157CM	40	670mΔ	5.0u	7.0m	20p	100p	1.0T†	20		20M†	30		85	5C	A369c	TO99	
64	HA5160-2	40	675mΔ	10u†	5.0m	5.0n	1.0n	20	10T†	20	30m	1.0M	75k§	100	74	5C	A373b	TO99
65	HA5160-8	40	675mΔ	10u†	5.0m	5.0n	1.0n	20	10T†	20	30m	1.0M	75k§	100	74	5C	A373b	TO99
66	HA5160-5	40	675mΔ	20u†	5.0m	5.0n	1.0n	20	10T†	20	30m	1.0M	75k§	100	74	07	A373b	TO99
67	HA5162-5	40	675mΔ	20u†	2.0m	5.0n	1.0n	20	10T†	20	30m	1.0M	25k§	50	70	07	A373b	TO99
68	LM148AJ	40	900mΔ		3.0m	25n	100n	24	500k†	24		100 Δ	1.0	80	5C	A308	DL14ap	
69	LM348AJ	40	900mΔ		4.0m	50n	300n	24	500k†	24		75 Δ	1.0	80	07	A308	DL14ap	
70*	1460B	40 *	1.0		50u	1.0m†	0.3u†	53		62 †	400m†	150MØ	92 †	65	85	07	A214	TO3
71	uA725RC	44			1.0m	2.0n	100n		1.5M†	20	2.0kØ	120		110	07	A107	DL8t	
72	NH0020-883	44			4.0m	100n	500n	24	1.0M	28	50m	1.0M	100	96	5C		TO8	
73	uA725ERC	44		2.0u	.50m	5.0n	75n		1.5M†	20	2.0kØ	120		120	07	A107	DL8t	
74	uA725AFM	44		2.0u	.75m	4.0n	70n			20	2.0kØ	120		110	5C	A107	FP2w	
75	uA725ARM	44		2.0u	.75m	4.0n	70n			20	2.0kØ	120		110	5C	A107	DL8t	
76#	TBA222G	44		3.0u	4.0m	100n	350n	26	2.0M	28	10kØ	88	500m	70	28	A042	DL8t	
77	uA725RM	44		5.0u	1.5m	200n	100n			20	2.0kØ	88		100	5C	A107	DL8t	
78	NH0022-883	44		10u	5.0m	500p	5.0n	24		24	2.6m	1.0M	100	90	5C		TO99	
79	CA3094BS	44	12m		7.0m	300n	700n	27	500k	27 †</								

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP RATED @25°C	SPECS 1 | TOT. VOLT. (ΔV)	SPECS 2 | MAX IDLE (W)	INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				T C O E M D P E	DRAWINGS CKT. OUT-LINE Δ=MO
					OVER OPERATING TEMP. RANGE			MIN. @25°C			P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/US)	CMRR (dB)		
					3 | DRIFT (V/°C)	4 | OFST (V)	OFFSET (A)	BIAS (A)	RANGE (ΔV)	DIFF IMP. (Ω)								
1#	SE4558FE	44	500mV	500mW	5.0m	200n	500n	12	300k	12	2.5MΩ				70	5C	A457a	DL8ah
2#	NE4558D	44	500mV	500mW	6.0m	200n	500n	12	300k	12	2.0MΩ				70	07	A457a	MD8a
3#	NE4558FE	44	500mV	500mW	6.0m	200n	500n	12	300k	12	2.0MΩ				70	07	A457a	DL8ah
4#	NE4558N	44	500mV	500mW	6.0m	200n	500n	12	300k	12	2.0MΩ				70	07	A457a	DL8ah
5#	SA4558FE	44	500mV	500mW	6.0m	200n	500n	12	300k	12	2.0MΩ				70	48	A457a	DL8ah
6#	SA4558N	44	500mV	500mW	6.0m	200n	500n	12	300k	12	2.0MΩ				70	48	A457a	DL8ah
7#	UA747H(M)	44	500mV	500mW	6.0m	500n	1.5u	12	300k	10		50k\$	500m†		70	5C	A154b	TO5
8#	UA748FE	44	500mV	500mW	6.0m	200n	500n	12	300k	10		50 Δ	500m†		70	5C	A37	DL8ah
9	OP07AZ(M)	44	500mV	500mW	0.6u	25u	2.0n	26	30M	24		300 Δ	0.1		110	5C	A261b	DL8ba
10	OP27EJ	44	500mV	500mW	600n	50u	50n	60n	10	1.5M	11	5.0M\$	750 Δ	1.7	110	5C	A174s	TO99
11	OP27AJ	44	500mV	500mW	600n	60u	50n	60n	10	1.5M	11	5.0M\$	600 Δ	1.7	108	5C	A174s	TO99
12	OP27AZ	44	500mV	500mW	600n	60u	50n	60n	10	1.5M	11	5.0M\$	600 Δ	1.7	108	2B	A420a	DL8bq
13	OP37AJ	44	500mV	500mW	600n	60u	50n	60n	10	1.5M	11	45M\$	600 Δ	1.1	108	5C	A174s	TO99
14	OP37AZ	44	500mV	500mW	600n	60u	50n	60n	10	1.5M	11	45M\$	600 Δ	1.1	108	2B	A420a	DL8bq
15	OPA27AJ(M)	44	500mV	500mW	600n	60u	50n	60n	11	1.5M	12	5.0M\$	1.0kΔ	1.7	114	6F	A174S	TO99
16	OPA27AZ(M)	44	500mV	500mW	600n	60u	50n	60n	11	1.5M	12	5.0M\$	1.0kΔ	1.7	114	6F	A420a	DL8bq
17	OPA27EJ	44	500mV	500mW	600n	60u	50n	60n	11	1.5M	12	5.0M\$	1.0kΔ	1.7	114	2B	A174S	TO99
18	OPA37AJ(M)	44	500mV	500mW	600n	60u	50n	60n	11	1.5M	12	40M\$†	1.0kΔ	1.1	114	6F	A174s	TO99
19	OPA37AZ(M)	44	500mV	500mW	600n	60u	50n	60n	11	1.5M	12	40M\$†	1.0kΔ	1.1	114	6F	A420a	DL8bq
20	OPA37EJ	44	500mV	500mW	600n	60u	50n	60n	11	1.5M	12	40M\$†	1.0kΔ	1.1	114	2B	A174s	TO99
21	OPA37EZ	44	500mV	500mW	600n	60u	50n	60n	11	1.5M	12	40M\$†	1.0kΔ	1.1	114	2B	A420a	DL8bq
22	OP05AZ(M)	44	500mV	900n	1.0u	15m	2.0n	26	30M	24		300 Δ	0.1		114	5C	A261b	DL8ba
23	OP27AY(M)	44	500mV	1.0u	80u	35n	40n	22	1.5M	24		1.7M\$	1.0kΔ	1.1	114	5C	A577	DL14a
24	OP27EY	44	500mV	1.0u	80u	35n	40n	22	1.5M	24		1.7M\$	1.0kΔ	1.1	114	2B	A577	DL14a
25	AD504SH	44	500mV	1.0u	1.5m	1.0n	100n	20	2.0M	24	10m	150k	120	80m	120	5C	TO99	
26	OP07Z(M)	44	500mV	1.3u	75u	2.8n	3.0n	26	20M	24		200 Δ	0.1		110	5C	A261b	DL8ba
27	RC714DE	44	500mV	1.3u	75u	2.8n	3.0n	26	20M	24		200 Δ	100m		110	5C	A420a	DL8bb
28	RC714EDE	44	500mV	1.3u	75u	3.8n	4.0n	22	15M	24		200 Δ	100m		106	07	A420a	DL8bb
29	RC714EH	44	500mV	1.3u	75u	3.8n	4.0n	22	15M	24		200 Δ	100m		106	07	A174s	TO99
30	RC714H	44	500mV	1.3u	75u	2.8n	3.0n	26	20M	24		200 Δ	100m		110	5C	A174s	TO99
31	OP27FJ	44	500mV	1.3u	140u	85n	95n	10	1.2M	11		5.0M\$	700 Δ	1.7	102	5C	A174s	TO99
32	OP27FJ	44	500mV	1.3u	140u	85n	95n	10	1.2M	11		5.0M\$	700 Δ	1.7	102	2B	A420a	DL8bq
33	OP37FJ	44	500mV	1.3u	140u	85n	95n	10	1.2M	11		45M\$	700 Δ	1.1	102	5C	A174s	TO99
34	OP37FZ	44	500mV	1.3u	140u	85n	95n	10	1.2M	11		45M\$	700 Δ	1.1	102	2B	A420a	DL8bq
35	OP27BJ	44	500mV	1.3u	200u	85n	95n	10	1.2M	11		5.0M\$	500 Δ	1.7	100	5C	A174s	TO99
36	OP27BZ	44	500mV	1.3u	200u	85n	95n	10	1.2M	11		5.0M\$	500 Δ	1.7	100	2B	A420a	DL8bq
37	OP37BJ	44	500mV	1.3u	200u	85n	95n	10	1.2M	11		45M\$	500 Δ	1.1	100	5C	A174s	TO99
38	OP37BZ	44	500mV	1.3u	200u	85n	95n	10	1.2M	11		45M\$	500 Δ	1.1	100	2B	A420a	DL8bq
39	OPA27BJ(M)	44	500mV	1.3u	200u	85n	95n	11	1.5M	12		5.0M\$	1.0kΔ	1.7	106	6F	A174S	TO99
40	OPA27BZ(M)	44	500mV	1.3u	200u	85n	95n	11	1.5M	12		5.0M\$	1.0kΔ	1.7	106	6F	A420a	DL8bq
41	OPA27EJ	44	500mV	1.3u	200u	85n	95n	11	1.5M	12		5.0M\$	1.0kΔ	1.7	106	2B	A174S	TO99
42	OPA37BJ(M)	44	500mV	1.3u	200u	85n	95n	11	1.5M	12		40M\$†	1.0kΔ	1.1	106	6F	A174s	TO99
43	OPA37BZ(M)	44	500mV	1.3u	200u	85n	95n	11	1.5M	12		40M\$†	1.0kΔ	1.1	106	6F	A420a	DL8bq
44	OPA37EJ	44	500mV	1.3u	200u	85n	95n	11	1.5M	12		40M\$†	1.0kΔ	1.1	106	2B	A174s	TO99
45	OPA37FZ	44	500mV	1.3u	200u	85n	95n	11	1.5M	12		40M\$†	1.0kΔ	1.1	106	2B	A420a	DL8bq
46	OP07EZ	44	500mV	1.5u	75u	3.8n	4.0n	26	15M	24		200 Δ	0.1		106	07	A261b	DL8ba
47	OP227BY(M)	44	500mV	1.5u	120u	50n	55n	22	1.2M	24		1.7M\$	1.0kΔ	1.1	106	5C	A577	DL14a
48	OP227EY	44	500mV	1.5u	120u	50n	55n	22	1.2M	24		1.7M\$	1.0kΔ	1.1	106	2B	A577	DL14a
49	RC714CDE	44	500mV	1.8u	150u	6.0n	7.0n	26	8.0M	24		100 Δ	100m		100	07	A420a	DL8bb
50	RC714CH	44	500mV	1.8u	150u	6.0n	7.0n	26	8.0M	24		100 Δ	100m		100	07	A174s	TO99
51	uPC354D	44	500mV	1.8u\$	150u\$	6.0n\$	7.0n\$	26	8.0M	12	10kΩ	500k†	120 Δ	1.7	100	2B	A003a	DL8av
52	OP27GY	44	500mV	1.8u	180u	75n	80n	22	800k	22		1.7M\$	700 Δ	1.1	100	2B	A577	DL14a
53	OP27GJ	44	500mV	1.8u	220u	135n	150n	10	800k	11		5.0M\$	450 Δ	1.7	96	5C	A174s	TO99
54	OP27GZ	44	500mV	1.8u	220u	135n	150n	10	800k	11		5.0M\$	450 Δ	1.7	96	2B	A420a	DL8bq
55	OP37GJ	44	500mV	1.8u	220u	135n	150n	10	800k	11		45M\$	450 Δ	1.1	96	5C	A174s	TO99
56	OP37GZ	44	500mV	1.8u	220u	135n	150n	10	800k	11		45M\$	450 Δ	1.1	96	2B	A420a	DL8bq
57	OP27CJ	44	500mV	1.8u	300u	135n	150n	10	800k	10		5.0M\$	300 Δ	1.7	94	5C	A174s	TO99
58	OP27CZ	44	500mV	1.8u	300u	135n	150n	10	800k	10		5.0M\$	300 Δ	1.7	94	2B	A420a	DL8bq
59	OP37CJ	44	500mV	1.8u	300u	135n	150n	10	800k	10		45M\$	300 Δ	1.1	94	5C	A174s	TO99
60	OP37CZ	44	500mV	1.8u	300u	135n	150n	10	800k	10		45M\$	300 Δ	1.1	94	2B	A420a	DL8bq
61	OPA27CJ(M)	44	500mV	1.8u	300u	135n	150n	11	1.5M	11		5.0M\$	700 Δ	1.7	100	6F	A174S	TO99
62	OPA27GJ	44	500mV	1.8u	300u	135n	150n	11	1.5M	11		5.0M\$	700 Δ	1.7	100	2B	A174S	TO99
63	OPA37CJ(M)	44	500mV	1.8u	300u	135n	150n	11	1.5M	11		40M\$†	700 Δ	1.1	100	6F	A174s	TO99
64	OPA37CZ(M)	44	500mV	1.8u	300u	135n	150n	11	1.5M	11		40M\$†	700 Δ	1.1	100	6F	A420a	DL8bq
65	OPA37GJ	44	500mV	1.8u	300u	135n	150n	11	1.5M	11		40M\$†	700 Δ	1.1	100	2B	A174s	TO99
66	OPA37GZ	44	500mV	1.8u	300u	135n	150n	11	1.5M	11		40M\$†	700 Δ	1.1	100	2B	A420a	DL8bq
67	OP05Z(M)	44	500mV	2.0u	0.5m	2.8n	3.0n	26	20M	24		200 Δ	0.1		114	5C	A261b	DL8ba
68	RC714LDE	44	500mV	3.0u	250u	20n	30n	22	7.0M	24		100 Δ	170m		90	07	A420a	DL8bb
69	RC714LH	44	500mV	3.0u	250u	20n	30n	22	7.0M	24		100 Δ	170m		90	07	A174s	TO99
70	uPC154D	44	500mV	3.0u\$	2.5 \$	35n\$	125n\$	13	15M†	12	10kΩ	108			96	2B	A003a	DL8av
71	uPC254D	44	500mV	4.5u\$	1.3m\$	6.0n\$	7.0n\$	13	8.0M	12	10kΩ	120 Δ			100	2B	A003a	DL8av
72	OP15AZ(M)	44	500mV	5.0u	500u	10p	50p	20	1.0T†	24		4.0M\$	100 Δ	10	86	5C	A291a	DL8ba
73	OP15EZ	44	500mV	5.0u	500u	10p	50p	20	1.0T†	24		4.0M\$	100 Δ	10	86	07	A291a	DL8ba
74	OP16AZ(M)	44	500mV	5.0u	500u	10p	50p	20	1.0T†	24		4.0M\$	100 Δ	10	86	5C	A291a	DL8ba
75	OP16EZ	44	500mV															

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT		MIN TRANSFER CHAR @ 25°C				DRAWINGS		
		RATED SPECS		OVER OPERATING TEMP. RANGE			MIN.-@25°C			CHAR.@25°C		3dB BW	O.L. VOLT. GAIN (dB)	SLEW RATE (V/US)	CMRR (dB)	T E O M P E	C K T.	O U T - L I N E Δ-MO
		1 |TOT. VOLT. (ΔV)	2 |MAX IDLE P (W)	3 |MAX VOLTAGE (V/°C)	4 |OFFST (V)	5 |MAX CURRENT (A)	6 |BIAS (A)	7 |CMRANGE (ΔV)	8 |DIFF IMP. (Ω)	9 |P.P VOLT. (ΔV)	10 |P.P CUR. (ΔA)							
1	CA3420BS(A)	44	630mΔ	4.0u†	2.0m	4.0p	5.0p	1.2	150†	1.7	500k§	20k§	0.5	65	5C	A596	CN46	
2	CA3420BT(A)	44	630mΔ	4.0u†	2.0m	4.0p	5.0p	1.2	150†	1.7	500k§	20k§	0.5	65	5C	A596	MO00zl	
3	CA3420AE(A)	44	630mΔ	4.0u†	5.0m	4.0p	5.0p	19	150†	19	500k§	20k§	0.5	60	5C	A596a	DL8ad	
4	CA3420AH(A)	44	630mΔ	4.0u†	5.0m	4.0p	5.0p	19	150†	19	500k§	20k§	0.5	60	5C	A596	CH66	
5	CA3420AS(A)	44	630mΔ	4.0u†	5.0m	4.0p	5.0p	19	150†	19	500k§	20k§	0.5	60	5C	A596	CN46	
6	CA3420AT(A)	44	630mΔ	4.0u†	5.0m	4.0p	5.0p	19	150†	19	500k§	20k§	0.5	60	5C	A596	MO00zl	
7	CA3420E(A)	44	630mΔ	4.0u†	10m	4.0p	5.0p	18	150†	19	500k§	10k§	0.5	55	5C	A596a	DL8ad	
8	CA3420H(A)	44	630mΔ	4.0u†	10m	4.0p	5.0p	18	150†	19	500k§	10k§	0.5	55	5C	A596	CH66	
9	CA3420S(A)	44	630mΔ	4.0u†	10m	4.0p	5.0p	18	150†	19	500k§	10k§	0.5	55	5C	A596	CN46	
10	CA3420T(A)	44	630mΔ	4.0u†	10m	4.0p	5.0p	18	150†	19	500k§	10k§	0.5	55	5C	A596	MO00zl	
11	OP27ADE(M)	44	658mΔ	25u	25u	35n	40n	22	1.5M	24	5.0M§	1.0mΔ	1.7	114	5C	A420a	DL8bb	
12	OP27AT(MA)	44	658mΔ	25u	25u	35n	40n	22	1.5M	24	5.0M§	1.0mΔ	1.7	114	5C	A174s	TO99	
13	OP27EDE(A)	44	658mΔ	25u	25u	35n	40n	22	1.5M	24	5.0M§	1.0mΔ	1.7	114	28	A420a	DL8bb	
14	OP27ET(A)	44	658mΔ	25u	25u	35n	40n	22	1.5M	24	5.0M§	1.0mΔ	1.7	114	28	A174s	TO99	
15	OP27BDE	44	658mΔ	60u	50n	55n	55n	22	1.2M	24	5.0M§	1.0mΔ	1.7	106	5C	A420a	DL8bb	
16	OP27BT(MA)	44	658mΔ	60u	50n	55n	55n	22	1.2M	24	5.0M§	1.0mΔ	1.7	106	5C	A174s	TO99	
17	OP27FDE(A)	44	658mΔ	60u	50n	55n	55n	22	1.2M	24	5.0M§	1.0mΔ	1.7	106	28	A420a	DL8bb	
18	OP27FT(A)	44	658mΔ	60u	50n	55n	55n	22	1.2M	24	5.0M§	1.0mΔ	1.7	106	28	A174s	TO99	
19	OP27CDE(MA)	44	658mΔ	100u	75n	80n	80n	22	800k	22	5.0M§	700 Δ	1.7	100	5C	A420a	DL8bb	
20	OP27CT(MA)	44	658mΔ	100u	75n	80n	80n	22	800k	22	5.0M§	700 Δ	1.7	100	5C	A174s	TO99	
21	OP27GDE(A)	44	658mΔ	100u	75n	80n	80n	22	800k	22	5.0M§	700 Δ	1.7	100	28	A420a	DL8bb	
22	AM427-1B	44	658mΔ	600n	25u	35n	40n	22	1.5M	22	32m	5.0M	120	1.7	114	28	A485	DL8ar
23	AM427-2B	44	658mΔ	600n	25u	35n	40n	22	1.5M	22	32m	5.0M	120	1.7	114	28	A174s	TO99
24	AM427-1A	44	658mΔ	1.8u	100u	75n	80n	22	800k	22	32m	5.0M	116	1.7	100	28	A485	DL8ar
25	AM427-1M	44	658mΔ	1.8u	100u	75n	80n	22	800k	22	32m	5.0M	116	1.7	100	5C	A485	DL8ar
26	AM427-2A	44	658mΔ	1.8u	100u	75n	80n	22	800k	22	32m	5.0M	116	1.7	100	28	A174s	TO99
27	AM427-2M	44	658mΔ	1.8u	100u	75n	80n	22	800k	22	32m	5.0M	116	1.7	100	5C	A174s	TO99
28	PM155AZ(M)	44	670mΔ	5.0u†	2.5m	10n	25n	20	1.0†	24	2.5M†§	25 Δ	3.0	85	5C	A291a	DL8ba	
29	PM156AZ(M)	44	670mΔ	5.0u†	2.5m	10n	25n	20	1.0†	24	4.0M†§	25 Δ	10	85	5C	A291a	DL8ba	
30	PM157AZ(M)	44	670mΔ	5.0u	2.5m	10n	25n	20	1.0†	24	15M†§	25 Δ	40	85	5C	A291a	DL8ba	
31	PM155Z(M)	44	670mΔ	5.0u†	5.0m	20p	100p	20	1.0†	24	2.5M†§	50 Δ	5.0	7.5	85	5C	A291a	DL8ba
32	PM156Z(M)	44	670mΔ	5.0u†	5.0m	20p	100p	20	1.0†	24	5.0M†§	50 Δ	7.5	85	5C	A291a	DL8ba	
33	PM157Z(M)	44	670mΔ	5.0u†	5.0m	20p	100p	20	1.0†	24	20M†§	50 Δ	30	85	5C	A291a	DL8ba	
34	LF411ACH	44	670mΔ	10u	500u	2.0n	4.0n	16	1.0†	12	3.0M§	50 Δ	10	80	07	A431	TO5	
35	LF411AMH	44	670mΔ	10u	500u	2.5n	5.0n	16	1.0†	12	3.0M§	50 Δ	10	80	5C	A431	TO5	
36	LF412ACH	44	670mΔ	10u	1.0m	2.0n	4.0n	16	1.0†	12	3.0M§	50 Δ	10	80	07	A442	TO5	
37	LF412AMH	44	670mΔ	10u	1.0m	2.5n	5.0n	16	1.0†	12	3.0M§	50 Δ	10	80	5C	A442	TO5	
38	LF442ACH	44	670mΔ	10u	1.0m	1.5n	3.0n	16	1.0†	12	800k§	50 Δ	800m	80	07	A442	TO5	
39	LF442AMH	44	670mΔ	10u	1.0m	1.0n	2.0n	16	1.0†	12	800k§	50 Δ	800m	80	5C	A442	TO5	
40	LF441ACH	44	670mΔ	10u	500m	10n	20n	32	10†	24	1.0M†§	25m§	1.0 †	80	07	A369c	TO5	
41	LF441AMH	44	670mΔ	10u	500m	10n	20n	32	10†	24	1.0M†§	25m§	1.0 †	80	5C	A369c	TO5	
42	LF441BCH	44	670mΔ	20u	2.0m	10n	20n	32	10†	24	1.0M†§	25m§	1.0 †	80	07	A369c	TO5	
43	LF441BMH	44	670mΔ	20u	2.0m	10n	20n	32	10†	24	1.0M†§	25m§	1.0 †	80	5C	A369c	TO5	
44	HA5170-5(A)	44	675mΔ	5.0u†	750u	100p	100p	20	60G†	20	110kΔ	80k§	5.0	90	07	A373a	DL8z	
45	HA5170-2(A)	44	675mΔ	5.0u†	1.0m	5.0n	10n	20	60G†	20	110kΔ	100k§	5.0	100	5C	A373b	TO99	
46	HA5170-8(A)	44	675mΔ	5.0u†	1.0m	5.0n	10n	20	60G†	20	110kΔ	100k§	5.0	100	5C	A373a	DL8af	
47	TDC0084DG	44	680mΔ	10u†	6.0m	100p	200p	24	1.0†	24	3.0M†§	50 Δ	100	80	5C	A396d	TO116	
48	TDE0084DP	44	680mΔ	10u†	6.0m	100p	200p	24	1.0†	24	3.0M†§	50 Δ	100	80	28	A396d	TO116	
49	NE5534AD	44	800mΔ	4.0u	5.0m	400n	500n	24	30k	24	200k	25 Δ	.70	70	5C	A409c	MD14a	
50	OP11CY(M)	44	800mΔ	4.0u	5.0m	200n	500n	24	200k	22	200k	50 Δ	100	70	5C	A308	DL14q	
51	SE535H	44	800mΔ	4.0u	5.0m	40n	200n	24	3.0M	20	3.0M	50 Δ	100	70	5C	A486	CN37b	
52	NE5532AJG(A)	44	825mΔ	4.0m	150n	800n	800n	12	30k	24	10M§	15 Δ	9.0	70	07	A367	DL6z	
53	NE5532JG(A)	44	825mΔ	4.0m	150n	800n	800n	12	30k	24	10M§	15 Δ	9.0	70	07	A367	DL8z	
54	uPC454D	44	900mΔ	1.8u§	150u§	6.0n§	7.0n§	8.0M	12	10k§	500k†	120 Δ	.17 †	100	28	A542	DL14ca	
55	LF147D	44	900mΔ	10u†	8.0m	25n	50n	11	1.0†	12	4.0M†§	50 Δ	13	80	5C	A362	DL14cc	
56	NE5532AP(A)	44	1.0 Δ	4.0n	150n	800n	800n	12	30k	24	10M§	15 Δ	9.0	70	07	A367	DL8z	
57	SE5532AFE	44	1.0 Δ	3.0m	200n	700n	700n	24	30k	24	10M§	50 Δ	9.0 †	80	07	A442	DL8aw	
58	SE5532FE	44	1.0 Δ	3.0m	200n	700n	700n	24	30k	24	10M§	50 Δ	9.0 †	80	07	A442	DL8aw	
59	NE5532P(A)	44	1.0 Δ	4.0m	150n	800n	800n	12	30k	24	10M§	15 Δ	9.0	70	07	A367	DL8z	
60	SE535FE	44	1.0 †	4.0u	5.0m	40n	200n	24	3.0M	20	3.0M	50 Δ	100	70	5C	A486	DL8aw	
61	LH0101ACK	44	5.0 Δ	10u†	7.0m	15n	60n	11	1.0†	12	300kΔ†	50 Δ	7.5	85	5C	A580	TO3	
62	uA741ERC	44	150 Δ	15u	4.0m	70n	210n	30	.50M	30	2.0kΔ	91	80	07	A241	DL8af		
63	uA741ETC	44	150 Δ	15u	4.0m	70n	210n	30	.50M	30	2.0kΔ	91	80	07	A241	DL8t		
64	OP27GT(A)	44	658mΔ	10u	100u	75n	80n	22	800k	22	5.0M§	700 Δ	1.7	100	28	A174s	TO99	
65	AM460-2C	45	300mΔ	10u	3.0m	25n	25n	11	40M	20	20m	12M	150k§	7.0	74	07	A453	TO99
66	HA2740-2(A)	45	300mΔ	10u	5.0m	20n	40n	11	5.0M†	24	10m	1.0M	30k§	800m†	100 †	5C	A398	DL16m
67	HA2740-5(A)	45	300mΔ	10u	7.0m	30n	40n	11	5.0M†	24	10m	1.0M	25k§	800m†	100 †	07	A398	DL16m
68	uA110FM	46	184m	6.0u†	6.0m	3.0n	3.0n	20	20k	20	10kΔ	2.0 †	25k	80 †	5C	A122	FP2W	
69	420Z	48	720m	20u†	20m†	1.0u	500m†	40 †	20k†	20 †	2.0 †	25k	80 †	80 †	28	A439A	OCT	
70	425	48	720m	20u†	20m†	1.0u	500m†	40 †	20k†	14 †	50 Δ	100k	86 †	5.0 †	80 †	28	A039	OCT
71	425T	48	720m	20u†	20m†	1.0u	500m†	40 †	20k†	24 †	100 Δ	2.0M†	86 †	5.0 †	80 †	28	A039	OCT
72	433	48	960m	500n	100m	200n	200n	40 †	20k	24	8.0 Δ	25k	56 †	5.0	80	28	A438	OCT
73	434	48	960m	500n	100m	200n	200n	40 †	20k	32	8.0 Δ	50k	56 †	5.0	80	28	A438	OCT
74	415	48	960m	500u†	100m†	200m†	200m†	40 †	20k†	40 †	1.0 †	2.0M†	54 †	5.0 †	80 †	28	A039	OCT
75	NH0033	50	25u	15m	1.0n	1.5n	1.5n	10G	24	24m	100M	0.0	1.5k	5C			TO8	
76	NH0033-883	50	25u	15														

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS			
		1)TOT. VOLT. (ΔV)	2)MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	1)E	2)C	3)CKT.	4)OUT-LINE Δ=MO
		3)DRIFT (V/°C)	4)OFFST (V)	5)OFFSET (A)	6)BIAS (A)	7)CM RANGE (ΔV)	8)DIFF IMP. (Ω)	9)P-P VOLT. (ΔV)	10)P-P CUR. (ΔA)	11)3dB BW (Hz)	12)O.L. VOLT. GAIN (dB)	13)SLEW RATE (V/μS)	14)CMRR (dB)	15)E	16)C				
1	3571AM	70	1.7	40u	2.0m§	50p§	100p§	70	100G	80	2.0	500k∅	94	3.0	80	28	A314	CN22e	
2	3572AM	70	1.7	40u	2.0m§	50p§	100p§	70	100G	80	4.0	500k∅	94	3.0	80	28	A314	CN22e	
3	425Q	72	1.0	20u†	2.0m†	20p†	500n†	60 †	20k†	4.0 †	600 ∅	2.0M∅†	94 †	5.0 †	80 †	28	A039	OCT	
4	1461C	72	1.0	50u	5.0m		100p	50	50	54	1.2	15M∅		900	90	07	A576	CN103	
5	1461C-83	72	1.0	50u	5.0m		100p	50	50	54	1.2	15M∅		900	90	5C	A576	CN103	
6	423	72	1.8	10u	2.0m		500n	60 †	20k	36	8.0 ∅	150k		5.0	80	28	A438	OCT	
7	NH0004-883	80	8.0m	4.0u†	200	100n	300n	70	500k	70	5.0k∅	5.0M∅	100	250n	70	5C	A004	TO99	
8	AM464-2	80	256m†	15u†§	6.0mΔ§	30n§	30n§	70	200M†	70	20m	4.0M§†	100	5.0 †	74 †	07	A228	TO99	
9	AM464-2M	80	256m†	15u†§	6.0mΔ§	30n§	30n§	70	200M†	70	10m	4.0M§†	100	5.0 †	74 †	5C	A228	TO99	
10	HA2640	80	304m	15u†	6.0m	35n	50n	70	50M	70	24m	4.0M†∅	100	5.0 †	80	5C	A231	TO99	
11	HA2645	80	360m	15u†	7.0m	50n	50n	70	40M	70	20m	4.0M†∅	100	5.0 †	74	07	A231	TO99	
12	1332	80	360m	20u§	6.0m§	30n§	30n§	70	200M	70	20m	4.0M†∅	100	5.0 †	74	07	A039a	TO99	
13#	SFC2861BM	80	500m∅	6.0u	6.0m§	200n§	1.0u§		200k†	72			80	9.0 †	70 †	5C	A568	CN1e	
14#	SFC2861BC	80	500m∅	6.0u	10m§	300n§	1.2u§		200k†	72			75	9.0 †	65 †	07	A568	DL8bf	
15#	SFC2861BDC	80	500m∅	6.0u	10m§	300n§	1.2u§		200k†	72			75	9.0 †	65 †	07	A568	DL8bf	
16	LM143J	80	680m∅		5.0m	12n	25n	24		22		20k∅	100k§	2.5 †	80	5C	A373c	DL8af	
17	PA09A	80	6.0	10u	1.0m§	100p	100p	80 Δ	100G	70	10	5.0M∅†	100	500 †	120	28	A552a	CN22e	
18	PA09	80	6.0	25u	2.0m§	100p	100p	80 Δ	100G	70	10	5.0M∅†	100	500 †	120	28	A552a	CN22e	
19	MA700	90	720m	10u	10m	300n	500n	80	80	80	16m	40k∅	94	12	84	57	A472	CN22e	
20	PA10	90	1.5	65u	6.0m	30n	30n	80	200M	80	10	4.0M∅	100	5.0 †	74	5A	A491	CN22e	
21	PA12	90	2.5	65u	6.0m§	30n§	30n§	85	200M	85 †	20	4.0M∅	92	5.0 †	74	28	A552a	CN22e	
22#	SFC2861AM	100	500m∅	6.0u	6.0m§	200n§	1.0u§		200k†	92			80	9.0 †	70 †	5C	A568	CN1e	
23#	SFC2861AC	100	500m∅	6.0u	10m§	300n§	1.2u§		200k†	92			75	9.0 †	65 †	07	A568	CN1e	
24#	SFC2861ADC	100	500m∅	6.0u	10m§	300n§	1.2u§		200k†	92			75	9.0 †	65 †	07	A568	CN1e	
25	PA07A	100	1.5	10u	1.0m	10p	10p	80	100G	90	10	1.0M∅	100	5.0 †	120	5A	A491	CN22e	
26	PA07	100	1.5	30u	2.0m	50p	50p	80	100G	90	10	1.0M∅	100	5.0 †	100	5A	A491	CN22e	
27	PA10A	100	1.5	40u	3.0m	10n	20n	90	200M	90	10	4.0M∅	100	5.0 †	74	5A	A491	CN22e	
28	PA12A	100	2.5	40u	3.0m§	10n§	20n§	95	200M†	95 †	30	4.0M∅	92	5.0 †	74	5C	A552a	CN22e	
29	3581J	150	1.2	25u	3.0m§	20p§†	20p§	150	100G	140	60m	5.0M	94	20 †	110 †	06	A288	TO3	
30	3581JM	150	1.2	25u	3.0m§	20p§	20p§	110 †	100G†	140	60m	5.0M†∅	112 †	20 †	110 †	07	A411a	TO3	
31	AM303B	300	1.8	20u†	1.0m†	30p†	100p†	280	1.0T†	280	20m	10M§	120	100	100	07			
32	AM303A	300	1.8	50u†	1.0m†	30p†	100p†	280	1.0T†	280	20m	10M§	120	100	100	07			
33	1480B	300	1.8	100u	6.0m	40p†	200p		286 †	286 †	150m	5.0M∅	95	100 †	110	5C	A586	TO3	
34	1480B-83	300	1.8	100u	6.0m	40p†	200p		286 †	286 †	150m	5.0M∅	95	100 †	110	5C	A586	TO3	
35	3582J	300	1.9	25u	3.0m§	20p§†	20p§	300	100G	280	30m	5.0M	100	20 †	110 †	06	A288	TO3	
36	3582JM	300	1.9	25u	3.0m§	20p§	20p§	280 †	100G†	280	30m	5.0M†∅	118 †	20 †	110 †	07	A411a	TO3	
37	3584JM	300	2.0	25u	3.0m§	20p§	20p§	130	100G†§	280	30m	135k†∅	100	150 †	110 †	5C	A411	CN22e	
38	PA84A	300	2.4	10u	1.0m§	10p§	10p§	290 ∅	100G†	283	80m	5.0M∅	100	150	130	5C	A560	CN22e	
39	PA84	300	2.4	25u	3.0m§	50p§	50p§	290 ∅	100G†	283	80m	5.0M∅	100	200 †	130 †	5C	A560	CN22e	
40	PA08A	300	2.5	10u	1.0m	10p	10p	280	100G	290	300m	5.0M∅	100	30	130	5A	A552	CN22e	
41	PA83A	300	2.5	10u	1.0m	10p	10p	280	100G	290	150m	5.0M∅	100	30	130	5A	A288	CN22e	
42	3583AM	300	2.5	23u	3.0m§	20p†§	20p§	300 Δ	1.0T†	80	150m	5.0M∅†	94	30 †	110 †	28	A288	CN22e	
43	3583JM	300	2.5	23u	3.0m§	20p†§	20p§	300 Δ	1.0T†	80	150m	5.0M∅†	94	30 †	110 †	06	A288	CN22e	
44	PA83	300	2.5	25u	3.0m	50p	50p	280	100G	290	150m	5.0M∅	100	30	130	5A	A288	CN22e	
45	PA08	300	2.5	30u	2.0m	50p	50p	280	100G	290	300m	5.0M∅	100	30	130	5A	A552	CN22e	

4. DIFFERENTIAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @25°C		MIN TRANSFER CHAR @ 25°C				DRAWINGS									
		1] TOT. VOLT. (ΔV)	2] MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/μS)	CMRR (dB)	T E O M P E	C K T.	OUT-LINE Δ=MO							
				3] DRFT (V/°C)	4] OFST (V)	MAX VOLTAGE (V)	MAX CURRENT (A)												BIAS (A)						
1	LH0022CD																								
2	CS100	3.2	64m		50m		2.0u	5.0		3.1	100m					27	B070	FP47							
3	CS137	5.0	50m		50m		1.0u			2.2	2.0m					27	B071	DLBy							
4	NE515A	9.0	21m	5.0u	4.0m		40u	2.0	1.4k	5.3	1.0M	68		100	07	B016	TO116								
5	SE515A	9.0	21m	5.0u	4.0m		40u	3.0	1.4k	5.3	1.0M	68		100	07	B016	TO116								
6	SE515F	9.0	63m	5.0u†	3.0m		40u	2.5	1.0k	5.7	1.0M†	71		100	†	5C	B016a	DL14bn							
7	SE515K	9.0	63m	5.0u†	3.0m		40u	2.5	1.0k	5.7	1.0M†	71		100	†	5C	B016	TO100							
8	NE515F	9.0	63m	5.0u†	4.0m		40u	2.5	1.4k	5.3	1.0M†	68		100	†	07	B016a	DL14aw							
9	NE515K	9.0	63m	5.0u†	4.0m		40u	2.5	1.4k	5.3	1.0M†	68		100	†	07	B016	TO100							
10	NE515N	9.0	63m	5.0u†	4.0m		40u	2.5	1.4k	5.3	1.0M†	68		100	†	07	B016a	DL14bn							
11	CA3050	10			5.0m		70n	500n		460k†	4.3M†			65	†	5C	B038	DL14a							
12	CA3051	10			5.0m		70n	500n		460k†	4.3M†			65	†	28	B038	TO116							
13	SSI101A	12			1.0m			300m		80				55		07	B096	DLBy							
14	SSI116	12			1.0m			300m		80				60		16	B096	DLBy							
15	CA3049T	12		1.1u†	250u†		300n†	33u		3.5k†	12	200mΔ	22	†	100	†	5C	B048	Δ006AG						
16	CA3102E	12		1.1u†	5.0m		3.0u	33u		3.5k†	12	500m	18	†	100	†	5C	B049	Δ001AB						
17	CA3102H	12		1.1u†	5.0m		3.0u	33u		3.5k†	12	500m	18	†	100	†	5C	B049	CH0						
18	CA3006	12	26m†		1.0m†		1.4u†	40u		6.0	Δ	1.4k		101	†	5C	B020	CN18							
19	CA3004	12	26m†		5.0m		5.0u	40u		6.0	Δ	1.4k		98	†	5C	B019	CN18							
20	CA3005	12	26m†		5.0m		1.4u†	40u		6.0	Δ	1.4k		101	†	5C	B020	CN18							
21	CA3007	12	30m†		5.0m		1.4u†	34u		5.0	Δ	4.0k†		77	†	5C	B024	CN18							
22	CA3000	12	30m†		8.0m		10u	36u		4.0	Δ	70k†	6.4	†	80		5C	B018	CN10d						
23	CA3053	12	120m				125u	125u				3.5m		5C		B021	TO99								
24	CA3001	12	120m		1.5m†		10u	36u		5.0	Δ	50k	5.0	†	5C		B023	CN18							
25	SE510F*	12	180m		3.5m		7.5u	40u		10	Δ			60		5C	B084	DL14bn							
26	SE510N*	12	180m		3.5m		7.5u	40u		10	Δ			60		5C	B084	DL14aw							
27	SE511B	12	180m		3.5m		7.5u	40u		10	Δ			60		5C	D026	DL14ao							
28	SE511F*	12	180m		3.5m		7.5u	40u		10	Δ			60		5C	B085	DL16bb							
29	SE511N*	12	180m		3.5m		7.5u	40u		10	Δ			60		5C	B085	DL16p							
30	NE511B	12	180m		4.0m		9.0u	40u		10	Δ			60		07	B085	DL14ao							
31	NE510F*	12	180m	10m†	4.0m		9.0u	40u		10	Δ			60		07	B084	DL14bn							
32	NE510N*	12	180m	10m†	4.0m		9.0u	40u		10	Δ			60		07	B084	DL14aw							
33	NE511F*	12	180m	10m†	4.0m		9.0u	40u		10	Δ			60		07	B085	DL14bn							
34	NE511N*	12	180m	10m†	4.0m		9.0u	40u		10	Δ			60		07	B085	DL14aw							
35#	MA733CN	12	288m		5.0u		30u	2.0		4.0k†	3.0	2.0k	50m†	38		70	†	07	B046	DL14x					
36#	MA733MN	12	288m		3.0u		20u	2.0		4.0k†	3.0	2.0k	50m†	39		70	†	5C	B046	DL14x					
37#	MA733CJ	12	288m		1.5		5.0u	30u		2.0		2.0k	50m†	47		60		07	B046	DL14ah					
38	NE521D	14	600m		10m		12u	40u		6.0						07	G042	MD14a							
39	NE522D	14	600m		10m		12u	40u		6.0						07	G043	MD14a							
40	LM2900J*	15	150m				200n			1.0M†	13	2.0k	2.5M†	61		48	A410	DL14bf							
41	LM2900N*	15	150m				200n			1.0M†	13	5.1k	2.5M†	61		48	A410	DL14z							
42	LM3301N*	15	150m				300n			1.0M†	13	2.0k	2.5M†	61		48	A410	DL14z							
43	LM3401N*	15	150m				300n			1.0M†	13	2.0k	2.5M†	61		07	A410	DL14z							
44	LM3900J*	15	150m				200n			1.0M†	13	2.0k	2.5M†	61		07	A410	DL14ah							
45	LM3900N*	15	150m				200n			1.0M†	13	2.0k	2.5M†	61		70		A410	DL14z						
46	LM1900J*	15	180m				100n			1.0M†	13	2.0k	2.5M†	66		5C	A410	DL14bi							
47#	LA1150	16	400mΔ		25											28	B098	MSJ							
48#	LA1150N	16	400mΔ		25											28	B098	MSJ							
49	uA760RC	16	670m		6.0m		7.5u	60u		8.0		12k				07	G027	DL8bk							
50	uA760RM	16	670m		6.0m		7.5u	60u		8.0		12k				5C	G027	DL8bk							
51#	BA806	17	300mΔ													26	B099	MS42							
52	CA3026H	18	600m		1.1u†		5.0m	2.0u		24u		3.5k†	12			100	†	5C	Z5403	CH16c					
53#	TBA341	18	600m		5.0m		2.0u	24u		5.0		3.5k†	12			100	†	0C	B057	TO116					
54	CA3026	18	600m		1.1u†		5.0m	2.0u		24u		3.5k†	12			100	†	5C	Z5403	Δ006AG					
55	CA3054	18	750m		1.1u†		5.0m	2.0u		24u		5.0	3.5k†	12		100	†	08	Z5402	Δ001AB					
56#	SFC2054EC	18	750m		1.1u†		5.0m	2.0u		24u		5.0	3.5k†	12		100	†	07	Z5402	TO116					
57	CA3054H	18	750		1.1u†		5.0m	2.0u		24u		5.0	3.5k†	12		100	†	5C	Z5402	CH16c					
58	CA3028B	24	220m		5.0m		6.0u	80u		5.0		3.0k†	15			60		5C	B021	TO99					
59	CA3028BS	24	220m		5.0m		6.0u	80u		5.0		3.0k†	15			60		5C	B021	TO99					
60	CA3028A	24	260m					106u				3.5				5C	B021	TO99							
61	CA3028AH	24	260m					106u				3.5m				5C	B021	CH16f							
62	CA3028AS	24	260m					106u				3.5m				5C	B021	TO99							
63	MC1519G	24	300m		5.0u†		6.0m	8.0u				1.2k†	8.0			5C	B092	CNE2							
64	MC1545F	24	500m		5.0m		2.0u†	25u		5.0	†	4.0k				85	†	5C	B097a	FP72					
65	MC1445F	24	500m		7.5m		2.0u†	30u		5.0	†	3.0k				85	†	07	B097a	FP72					
66	MC1545L	24	625m		5.0m		2.0u†	25u		5.0	†	4.0k				85	†	5C	B097a	DL14ag					
67	MC1445L	24	625m		7.5m		2.0u†	30u		5.0	†	3.0k				85	†	07	B097a	DL14ag					
68	MC1545G	24	680m		5.0m		2.0u†	25u		5.0	†	4.0k				85	†	5C	B097	CN8j					
69	MC1445G	24	680m		7.5m		2.0u†	30u		5.0	†	3.0k				85	†	07	B097	CN8j					
70	3627BM	30	60m		20u		250u			20		50k	20			10m	800k	0.0	600m	100	5C	B076	TO99		
71	3627AM	30	60m		30u		250u			20		50k	20			10m	800k	0.0	600m	90	5C	B076	TO99		
72	LM348J*	30	135m		7.5m		100n	400n		24		800k	20			20k	1.0M†	98	500m†	70	07	B082	TO116		
73	LM348N*	30	135m		7.5m		100n	400n		24		800k	20			20k	1.0M†	98	500m†	70	07	B082	DL14az		
74	AM490-2B	30	150m		100n		20u†	50p†		150p†		20	100M†	20	†	14m†	3.0M†	114	†	2.5	†	120	5C	B093	TO99
75	AM490-2B	30	150m		300n		20u†	50p†		150p†		20	100M†	20	†	14m†	3.0M†	114	†	2.5	†	120	5C	B093	TO99
76	AM490-2M	30	150m		600n		20u†	50p†		150p†		20	100M†	20	†	14m†	3.0M†	114	†	2.5	†	120	5C	B093	TO99
77	AM490-2A	30	150m		1.0u		20u†	50p†		150p†		20	100M†	20	†	14m†	3.0M†	114	†	2.5	†	120	5C	B093	TO99
78	AD521LD	30	150m		2.0u		1.0m	10n		40n		20	3.0G	20		20m	40k	60	10	100	28	B062	DL14CB		
79	AD521KD	30	150m		5.0u		1.5m	10n		40n		20	3.0G	20		20m	40k	60	10	100	28	B062	DL14CB		
80	AD521SD #mil	30	150m		5.0u		1.5m	10n		40n		20	3.0G	20		20m	40k	60	10	100	5C	B062	DL14cb		
81	AD521JD	30	150m		15u		3.0m	20n		80n		20	3.0G	20		20m	40k	60	10	100	28	B062	DL14CB		

6. RF/IF AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER
(3) POWER GAIN (4) UNTUNED 3dB BW (5) TYPE NO.

LINE No.	TYPE No.	PWR SUP @25°C		MIN TRANSFER CHARACTERISTICS @25°C					INPUT CHAR @25°C			OUTPUT CHAR. @25°C			T C E O M D P E	DRAWINGS	
		1 | TOT VOLT (ΔV)	2 | MAX IDLE P (W)	3 | PWR GAIN @ 50Ω LOAD & SOURCE (dB)	4 | UN-TUNED 3dB BW (Hz)	Y21 (mhos)	Y12 (mhos)	MAX. NF (dB)	MIN. VOLT. P-P (ΔV)	MAX. COND. (mhos)	MAX. CAP. (F)	MIN. VOLT. P-P (ΔV)	MIN. COND. (mhos)	MAX. CAP. (F)			
																	5 | PWR GAIN @ 50Ω LOAD & SOURCE (dB)	6 | UN-TUNED 3dB BW (Hz)	7 | Y21 (mhos)	8 | Y12 (mhos)	9 | MAX. NF (dB)	10 | MIN. VOLT. P-P (ΔV)	11 | MAX. COND. (mhos)	12 | MAX. CAP. (F)	13 | MIN. VOLT. P-P (ΔV)	14 | MIN. COND. (mhos)	15 | MAX. CAP. (F)
1#	SFC2006	6.0	26m	32 **	1.7M	10M		1.0mΩ	3.0 †	7.0m					18	D020	TO99
2#	SL612C	6.0	30m	32 **	1.7M	10M		1.0mΩ	3.0 †						5C	D021	CN11e
3#	SL1612C	6.0	36m	38	1.7M	15M†			3.0 †	56 †	700m†		33m†		5C		DL8ax
4#	LA1201	6.0	54m	79 *											27	D044	DL14ap
5#	SFC2008	6.0	120m	18 **	30M	80M†		1.0mΩ	4.0 †	36m	200u†	5.0p†		18	D021	TO99	
6#	SL610C	6.0	120m	18 **	30M	85M		1.0mΩ	4.0 †	280 †	700m†			5C	D020	CN11e	
7#	SL611C	6.0	120m	24 **	30M	50M		1.0mΩ	4.0 †	140 †	700m†			5C	D020	CN11e	
8#	SFC2011	6.0	120m	24 **	30M	70M†		1.0mΩ	4.0 †	36m	100u†	5.0p†		18	D021	TO99	
9#	SL1610C	6.0	144m	24	30M	120M†			4.0 †					38		DL8ax	
10#	SL1611C	6.0	144m	30	30M	80M†			4.0 †					38		DL8ax	
11#	M5215L	8.5	250m	17	30M	10M				3.0		11p†		37		MS4	
12	uPC1004C	10	350m§						66 Δ	7.0 Δ		90m*		27	D066	DL14ad	
13	CA3049T§	12		23 †	200M	500M♦	36m†	8.0u†	4.6 †	5.0	1.5m	2.0p†		5C	B048	Δ006AG	
14	CA3102E§	12		23 †	200M	500M♦	36m†	8.0u†	4.6 †	5.0	1.5m	2.0p†		5C	B049	Δ001AB	
15	CA3102H§	12		23 †	200M	500M♦	36m†	8.0u†	4.6 †	5.0	1.5m	2.0p†		5C	B049	CHØ	
16	CA3004§	12	26m†	10 §	100M	120M♦			9.0	7.0 Δ				5C	B019	CN18	
17	CA3005§	12	26m†	16 §	100M	120M♦			9.0	7.0 Δ				5C	B020	CN18	
18	CA3006§	12	26m†	16 §	100M	120M♦			9.0	7.0 Δ				5C	B020	CN18	
19	NE510A#1	12	100m	25 †	60M	10M†				20 Δ	400u†	4.5p	25 †	07	D016	TO116	
20	NE511B§	12	100m	25 †	60M	10M†	25m†				2.0m†	4.5p†	25 †	07	D026	DL14ao	
21	SE510A#1	12	100m	25 †	60M	10M†				20 Δ	400u†	4.5p	25 †	5C	D016	TO116	
22	SE511B§	12	100m	25 †	60M	10M†	25m			2.0m†	2.0m†	4.5p†	25 †	5C	D026	DL14ao	
23	NE510A#2	12	100m	30 †§	60M	10M†				2.0m†	2.0m†	10p†	25 †	07	D016	TO116	
24	SE510A#2	12	100m	30 †§	60M	10M†				2.0m†	2.0m†	10p†	25 †	5C	D016	TO116	
25#	NE510A	12	180m			60M†	25m†	50f%†		20 Δ	3.0m†	10p†		07	D016	DL14ao	
26#	SE510A	12	180m			60M†	25m†	50f%†		20 Δ	3.0m†	10p†	1.0u†	5C	D016	DL14ao	
27#	LA1222*	12	208m	30 *			22m			6.0 Δ	3.0m†	10p†	1.0u†	27	D045	DL8n	
28	MC1590G§	12	240m	35	100M		150m	5.0u	7.0				6.5	5C	E038	CN1d	
29	uA757DM	12	240m	65	500k		14m†		8.0 †			2.5p†	8.0 †	5C	D030	DL14br	
30	uA757DC	12	270m	65	500k		14m†		8.0 †			2.5p†	8.0 †	07	D030	DL14br	
31	TBA400	12	400m|	75 *†	36M	40M				240m†		17p†	1.1	18	D052	TO100	
32	TBA400D	12	400m|	75 *†	36M	40M				240m†		17p†	1.1	18	D052	DL14t	
33#	TAA661A	15				5.0k				8.0 Δ	400u	8.0p	1.4	0A	D050	TO100	
34#	TAA661B	15				5.0k				8.0 Δ	400u	8.0p	1.4	0A	D050		
35#	TAA661C	15				5.0k				8.0 Δ	400u	8.0p	1.4	0A	D050		
36	ESM1350P	15 §	204m					9.0		18 Δ		8.1p	20	07	D049	DL8a	
37	uPC1198H	15	330mΔ		10M	300k				20			2.0m	26			
38	TAA930A	15	600m†	86 *	5.5M					100m	70u	8.0p	4.0	07		TO116	
39	TAA930B	15	600m†	86 *	5.5M					100m	70u	8.0p	4.0	07		QL14c	
40#	LA1230	16	650mΔ											27	D068	DL16c	
41	CA3028BS§	24	220m	35	10M	5.0M†	100m†	300n†	9.0	5.0	600u†	22p†	0.0	5C	B021	TO99	
42	CA3028AS§	24	260m	35	10M	5.0M†	100m†	300n†	9.0		600u†	22p	0.0	5C	B021	TO99	
43	CA3028AH§	24	260m	35	10M	5.0M†	100m†	300n†	9.0		600u†	22p†	0.0	5C	B021	CH16f	
44	CA3028AS§	24	260m	35	10M	5.0M†	100m†	300n†	9.0		600u†	22p†	0.0	5C	B021		
45	CA3028B	24	260m	35	10M	5.0M†	100m†	300n†	9.0	5.0	600u†	22p	0.0	5C	B021	TO99	

7. WIDEBAND AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER
(3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C		TRANSFER CHARACTERISTICS @25°C					INPUT CHAR. @25°C		OUTPUT CHAR. @25°C			TRANSIENT CHAR. @25°C		C O M D P E	DRAWINGS	
		RATED SPECS		3dB BW		MIN. VOLTAGE GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	MIN RESIST (Ω)	MAX P-P VOLTS (ΔV)	MAX RESIST (Ω)	MIN. VOLT P-P (ΔV)	LOAD RESIST (Ω)	MAX RISE (s)	MAX DELAY (s)			
		1 | TOT VOLT (ΔV)	2 | MAX IDLE P (W)	3 | MIN UPPER (Hz)	4 | MAX LOWER (Hz)													
1#	SL565C(A)				1.0G	22												
2	MWA330	2.9	\$	.10M	1.0k	6.2 Δ	9.0		50		50					E107	DL85h
3	MWA310	2.9	\$	.10M	1.0k	7.0 Δ	9.0		50		50						CN38a
4	MWA320	2.9	\$	.10M	1.0k	7.0 Δ	9.0		50		50						CN38a
5	MWA110	3.0	\$	400M	100k	13 Δ	4.5 †	25 *	50 †		50 †	500uΔ†	50			2C	E080	
6	MWA210	3.2	\$	.10M	600M	9.0 Δ	7.5		50		50						CN38a
7	MWA220	3.2	\$	.10M	600M	9.0 Δ	7.5		50		50						CN38a
8	MWA230	3.2	\$	.10M	600M	9.0 Δ	7.5		50		50						CN38a
9	GPD251	5.0	\$		200M	25	4.0 †		2.0 ∅		2.0 ∅						TO12	
10	GPD252	5.0	\$		200M	25	4.0 †		2.0 ∅		2.0 ∅						TO12	
11	MWA130	5.0	\$	.10M	400M	13 Δ	7.0		50		50						CN38a
12	UTO1051	5.0	\$	5.0M	1.0G	9.0	5.7		2.0 ∅		2.0 ∅						TO8	
13	UTO1051R	5.0	\$	5.0M	1.0G	10	5.0		2.0 ∅		2.0 ∅						TO8	
14	UTO551	5.0	\$	5.0M	500M	14	4.5		2.0 ∅		2.0 ∅						TO8	
15	UTO551R	5.0	\$	5.0M	500M	15	4.0		2.0 ∅		2.0 ∅						TO8	
16#	ZN460	5.0	\$	6.0M†		59			15 †	3.5k	75 †	2.0					E088	
17#	ZN460C	5.0	\$	6.0M†		59			15 †	3.5k	75 †	2.0					E088	
18#	ZN460CP	5.0	\$	6.0M†		59			15 †	3.5k	75 †	2.0					E088	
19	UTO250	5.0	\$	200M	5.0M	33 †	3.5 †		1.2 ∅†		1.3 ∅†	1.4 *†					DL8ah	
20	MA106	5.0	\$	12m	15M	59	3.1 *	150m	5.0k	1.0	90	1.0					TO71	
21#	ZN459CT	5.0	\$	15m	11M	58	4.0 *	200m	3.5k	1.0	100	1.0					E070	
22#	ZN459T	5.0	\$	15m	11M	58	4.0 *	200m	3.5k	1.0	100	1.0					E070	
23#	SAB1009B	5.0	\$	75m§	70M	16			75	150m		550m	50				E109	
24#	MWA120	5.0	\$	120m	400M	100k	13 Δ	6.0 †	37 *	50 †		5.0mΔ†	50				E080	
25#	SL1521C	5.2	\$	104m	300M	10M	11	4.5				1.0					Z6978	
26#	SL1521A	5.2	\$	104m	315M	10M	11	4.5				1.0					Z6978	
27#	TAA350A	6.0	\$		12M	65					75 †	10	10k				E031a	
28#	ZN459	6.0	\$		15M†	59			15	3.5k	75 †						E070	
29#	ZN459C	6.0	\$		15M†	59			15	3.5k	75 †						E070	
30#	ZN459CP	6.0	\$		15M†	59			15	3.5k	75 †						E070a	
31	CA3021	6.0	\$	8.0m	800k	0.0	5.0		4.0k†	6.0	300 †	1.7 †					CN18	
32	CA3022	6.0	\$	24m	3.0M	0.0	5.0		1.3k†	6.0	120 †	2.0 †					CN18	
33	CA3023	6.0	\$	48m	10M	0.0	5.0		300 †	6.0	100 †	1.4 †					E013	
34	CA3023H	6.0	\$	48m	10M	0.0	5.0		300 †	6.0	100 †	1.4 †					E013	
35	SE501A	6.0	\$	53m	14M	23	7.0	5.0	540	4.0	50	710m	600	16n	15n	5C	E014	
36	SE501K	6.0	\$	53m	14M	23	7.0	5.0	540	4.0	50	710m	600	16n	15n	5C	E014	
37	NE501A	6.0	\$	60m	11M	22	8.0	5.0	470	4.0	65	710m	600	20n	15n	07	E014	
38	NE501K	6.0	\$	60m	11M	22	8.0	5.0	470	4.0	65	710m	600	20n	15n	07	E014	
39#	SL550G	6.0	\$	78m	200M	39	3.5		25	800m	350	0.9 †					E062	
40#	SL521B	6.0	\$	108m	140M	7.0M	11	5.2				1.2 †					E030	
41#	SL521A	6.0	\$	108m	150M	7.0M	11	5.2				1.2 †					E030	
42#	SL521C	6.0	\$	114m	130M	7.0M	11	5.2				1.2 †					E030	
43#	SL550D	6.0	\$	120m	200M	5.0M†	35	3.0 †		750	50	350	848m	200			E062	
44#	SL560C	6.0	\$	180m	300M	10M†	11	1.8 †		50		1.0m†Δ	50				E071	
45	CA3014	7.5	\$	150m	20M†	100k†	65	8.7 †	1.8 †	3.0k†	6.0	31k†					E021	
46	CA3012	7.5	\$	167m	20M†	100k†	65	8.7 †		3.0k†		31k†					E053	
47	CA3012H	7.5	\$	167m	20M	100k†	65	8.7 †		3.0k†		31k†					E053	
48	CA3011	7.5	\$	187m	20M†	100k†	65	8.7 †		3.0k†		31k†					E053	
49	CA3013	7.5	\$	187m	20M†	100k†	65	8.7 †	1.8 †	3.0k†	6.0	31k†					E021	
50	CA3020§	9.0	\$	49m†	8.0M†		75 †	7.0 †	10	1.0k†		130 †					E022	
51	CA3020A§	9.0	\$	49m†	8.0M†		75 †	6.6 †	10	1.0k†		200 †					E022	
52	CA3035V1*	9.0	\$	67m	500k†	1.0k	40	7.0		50k†	1.0	270 †		2.0 †	10k		E016	
53	MC1445J	10	\$	150mΔ	50M†		16	25 **		3.0k		1.5		7.0n†	6.5n†			
54	MC1445N	10	\$	150mΔ	50M†		16	25 **		3.0k		1.5		7.0n†	6.5n†			
55	MC1445W	10	\$	150mΔ	50M†		16	25 **		3.0k		1.5		7.0n†	6.5n†			
56#	SL1030C	10	\$	300m	150MΔ	10kΔ	28	8.0		1.0k†		1.0 †	100				E054	
57	AD599JD#ai	10	\$	450m	35MΔ	10MΔ				350k	4.0			3.0n			E104	
58#	OM370	12	\$		40M	860M	26	7.0 †		75 †		75 †		75			27	
59	AHD557	12	\$		500M	10M		3.0		2.0 ∅		2.0 ∅					5A	
60	AHD559	12	\$		500M	5.0M		2.5		2.0 ∅		2.0 ∅					5A	
61	CA3002	12	\$	55m†	11M†		24 †	8.0		100k†	7.0	70 †	5.5				D012	
62	CA3001§	12	\$	120m	16M	0.0	10	8.0		50k	5.0	70	5.0 †				B023	
63	NE592FH	12	\$	144m	90M†		38 §*	12 **		10k	2.0 *	20 †	3.0	2.0k	12n		E072	
64	NE592K	12	\$	144m	90M†		38 §*	12 **		10k	2.0 *	20 †	3.0	2.0k	10n		E072a	
65	SE592FH	12	\$	144m	90M†		39 §*	12 **		20k	2.0 *	20 †	3.0	2.0k	12n		E072	
66	SE592K	12	\$	144m	90M†		39 §*	12 **		20k	2.0 *	20 †	3.0	2.0k	10n		E072a	
67	CA3040	12	\$	186m	40M	55 †	34 \$	11		150k†		125 †	1.4				E035	
68	LNA0410	12	\$	204m	1.0M	500M	13 †	3.5			12	50					TO8	
69	LNA1100	12	\$	204m	1.0M	1.0G	13 †	3.5			12	50					TO8	
70	MC1733CP	12	\$	288m	40M†		48 *	12u*		4.0k†	2.0 *	20 †	3.0	1.0k	10n†	7.5n†	E040	
71	NE592FZ	12	\$	288m	40M		50	12u*		4.0k†	2.0 *	20 †	3.0	2.0k	10n†	7.5n†	E072	
72	NE592N	12	\$	288m	40M		50	12u*		4.0k†	2.0 *	20 †	3.0	2.0k	10n†	7.5n†	E072	
73	SE592FZ	12	\$	288m	40M		50	12u*		4.0k†	2.0 *	20 †	3.0	2.0k	10n†	7.5n†	E072	
74	uA733FC	12	\$	288m	40M†		48 §*	12 **		8.0k	2.0 *	20 †	3.0	10n†	7.5n†		E040	
75	LM733CH	12	\$	288m	40M†		48 §*	12 **		4.0k†	2.0 *	20 †	3.0	2.0k	10n†	7.5n†	E040	
76	LM733CN	12	\$	288m	40M†		48 §*	12 **		10k	2.0 *	20 †	3.0	2.0k	10n†	7.5n†	E040	
77#	MB3501M	12	\$	288m	40M		48			2.0	2.0	3.0		10n	7.5n		E069	
78#	MB3501PF	12	\$	288m	40M		48			2.0	2.0	3.0		10n	7.5n		E069	
79	MC1733CG	12	\$	288m	40M†		48 *	12u*		4.0k†	2.0 *	20 †	3.0	1.0k	10n†	7.5n†	E040	
80	MC1733CL	12	\$	288m	40M†		48 *	12u*		4.0k†	2.0 *	20 †	3.0	1.0k	10n†	7.5n†	E040	
81	NE592A	12	\$	288m	40M		48			4.0k	2.0	20	3.0	2.0k	10n	7.5n		E040
82	NE592K	12	\$	288m	40M		48			4.0k	2.0	20	3.0	2.0k	10n	7.5n		E072a
83	uA733CA	12	\$	288m	40M†		48 §*	12 **		4.0k†	2.0 *	20 †	3.0	2.0k	10n†	7.5n†		E040
84	uA733CK	12	\$	288m	40M†		48 §*	12 **		4.0k†	2.0 *	20 †	3.0	2.0k	10n†	7.5n†		E040
85	MC1733G	12	\$	288m	40M†		48 *	12u*		4.0k†	2.0 *	20 †	3.0	1.0k	10n†	7.5n†		E040
86	MC1733L	12	\$	288m	40M†		48 *	12u*		4.0k†	2.0 *	20 †	3.0	1.0k	10n†	7.5n†		E040
87	LM733H	12	\$	288m	40M†		50 §*	12 **		4.0k†	2.0 *	20 †	3.0	2.0k	10n†	7.5n†		E040
88	SE592K	12	\$	288m	40M		50	12		4.0k	2.0	20	3.0	2.0k	10n	7.5n		E072a
89	uA733A	12	\$	288m	40M†		50 §*	12 **		4.0k†	2.0 *	20 †	3.0	2.0k	10n†	7.5n†		E040
90	uA733K	12	\$	288m														

7. WIDEBAND AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER
(3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C		TRANSFER CHARACTERISTICS @25°C					INPUT CHAR. @25°C		OUTPUT CHAR. @25°C			TRANSIENT CHAR. @25°C		T E O M D P E	DRAWINGS CKT. OUT-LINE Δ=MO
		1 | TOT. VOLT (ΔV)	2 | MAX IDLE P (W)	3 | MIN. UPPER (Hz)	4 | MAX. LOWER (Hz)	4 | MIN. VOLTAGE GAIN (dB)	4 | MAX. NOISE FIGURE (dB)	4 | MAX. THD (%)	MIN RESIST (Ω)	MAX P-P VOLTS (ΔV)	MAX. RESIST (Ω)	MIN. VOLT P-P (ΔV)	LOAD RESIST (Ω)	MAX RISE (s)	MAX DELAY (s)		
1	UTO2031	15		1.0M	2.0G	8.5	5.5		2.0 0		2.0 0					58	TO8
2	UTO2032	15		1.0M	2.0G	8.5	6.0		2.0 0		2.0 0					58	TO8
3	UTO515	15		2.0M	500M	11	7.5		2.0 0		2.0 0					58	TO8
4	UTO1011	15		2.0M	1.0G	13	4.0		2.0 0		2.2 0					58	TO8
5	UTO1501	15		5.0M	1.5G	8.5	6.0		2.0 0		2.0 0					58	TO8
6	UTO1502	15		5.0M	1.5G	8.5	7.5		2.0 0		2.0 0					58	TO8
7	GPD464	15		5.0M	400M	9.0	7.5 †		2.0 0		2.0 0					58	TO12
8	UTO1033	15		5.0M	1.0G	9.0	8.5		2.0 0		2.0 0					58	TO8
9	UTO1501R	15		5.0M	1.5G	9.0	5.5		2.0 0		2.0 0					5C	TO8
10	UTO1502R	15		5.0M	1.5G	9.0	7.5		2.0 0		2.0 0					5C	TO8
11	GPD1003	15		5.0M	1.0G	10	8.0		2.0 0		2.0 0					58	TO12
12	GPD1063	15		5.0M	1.0G	10	8.0		2.0 0		2.0 0					58	TO12
13	UTO1511	15		5.0M	1.5G	10	5.0		2.0 0		2.0 0					58	TO8
14	UTO1511R	15		5.0M	1.5G	10	4.5		2.0 0		2.0 0					5C	TO8
15	GPD1001	15		5.0M	1.0G	12	6.0		2.0 0		2.0 0					58	TO12
16	GPD1002	15		5.0M	1.0G	12	7.0		2.0 0		2.0 0					58	TO12
17	GPD1061	15		5.0M	1.0G	12	6.0		2.0 0		2.0 0					58	TO12
18	GPD1062	15		5.0M	1.0G	12	7.0		2.0 0		2.0 0					58	TO12
19	UTO501	15		5.0M	500M	13	4.5		2.0 0		2.0 0					58	TO8
20	UTO502	15		5.0M	500M	13	6.0		2.0 0		2.0 0					58	TO8
21	UTO516	15		5.0M	500M	13	5.5		2.0 0		2.0 0					58	TO8
22	UTO1001	15		5.0M	1.0G	13	5.5		2.0 0		2.0 0					58	TO8
23	UTO1002	15		5.0M	1.0G	13	7.0		2.0 0		2.0 0					58	TO8
24	UTO501R	15		5.0M	500M	14	4.0		2.0 0		2.0 0					5C	TO8
25	UTO502R	15		5.0M	500M	14	5.5		2.0 0		2.0 0					5C	TO8
26	UTO516R	15		5.0M	500M	14	5.5		2.0 0		2.0 0					5C	TO8
27	UTO1001R	15		5.0M	1.0G	14	5.0		2.0 0		2.0 0					5C	TO8
28	UTO1002R	15		5.0M	1.0G	14	6.5		2.0 0		2.0 0					5C	TO8
29	UTO510	15		5.0M	500M	15	3.5		2.0 0		2.0 0					58	TO8
30	UTO510R	15		5.0M	500M	15	3.0		2.0 0		2.0 0					5C	TO8
31	UTO511	15		5.0M	500M	15	3.0		2.2 0		2.0 0					58	TO8
32	UTO511R	15		5.0M	500M	15	2.5		2.0 0		2.0 0					5C	TO8
33	UTO533	15		5.0M	500M	15	6.0		2.0 0		2.0 0					58	TO8
34	UPD1521	15		5.0M	1.5G	18	6.0		2.0 0		2.0 0					58	DL140
35	UTO512	15		5.0M	500M	19	5.0		2.0 0		2.0 0					58	TO8
36	UTO512R	15		5.0M	500M	20	4.5		2.0 0		2.0 0					5C	TO8
37	UTO517	15		5.0M	500M	21	3.5		2.0 0		2.0 0					58	TO8
38	UTO523	15		5.0M	500M	23	7.0		2.0 0		2.0 0					58	TO8
39	UTO523R	15		5.0M	500M	23	7.0		2.0 0		2.0 0					5C	TO8
40	UTO521	15		5.0M	500M	27	5.5		2.0 0		2.0 0					58	TO8
41	UTO521R	15		5.0M	500M	27	5.5		2.0 0		2.0 0					5C	TO8
42	GPD201	15		5.0M	200M	30	3.5 †		2.0 0		2.0 0					58	TO12
43	UTO1004	15		10M	1.0G	5.5	12		2.0 0		2.0 0					58	TO8
44	UTO2023	15		10M	2.0G	7.5	9.5		2.2 0		2.2 0					57	TO8
45	UTO1045	15		10M	1.0G	8.0	7.5		2.0 0		2.0 0					58	TO8
46	UTO2021	15		10M	2.0G	8.5	5.5		2.0 0		2.0 0					58	TO8
47	UTO2022	15		10M	2.0G	8.5	6.0		2.0 0		2.0 0					58	TO8
48	UTO505	15		10M	500M	9.0	9.0		2.0 0		2.0 0					58	TO8
49	UTO505R	15		10M	500M	9.0	8.5		2.0 0		2.0 0					5C	TO8
50	UTO543	15		10M	500M	9	3.0		2.0 0		2.0 0					58	TO8
51	UTO544	15		10M	500M	9	3.5		2.2 0		2.0 0					58	TO8
52	UTO1043	15		10M	1.0G	9.0	4.5		2.0 0		2.0 0					58	TO8
53	UTO1044	15		10M	1.0G	9.0	5.0		2.0 0		2.0 0					58	TO8
54	UTO545	15		10M	500M	10	5.5		2.0 0		2.0 0					58	TO8
55	UTO546	15		10M	500M	10	8.5		2.0 0		2.0 0					58	TO8
56	UTO561	15		10M	500M	10	9.5		2.0 0		2.0 0					58	TO8
57	UTO507	15		10M	500M	14	9.0		2.0 0		2.0 0					58	TO8
58	UTO515R	15		20M	500M	12	8.0		2.0 0		2.0 0					5C	TO8
59	UTO514	15		30M	200M	14	2.5		2.0 0		2.0 0					58	TO8
60	UTO161	15	§	100M	10M	8.0	6.0		2.0 0		2.0 0					57	TO3
61	AH74-1	15		250M	5.0M		5.5		2.0 0	17 Δ	20 0					5A	TO8
62	AH75-2	15		250M	5.0M		5.0		2.0 0	17 Δ	20 0					5A	TO8
63	AH79	15		250M	5.0M		7.0		2.0 0	17 Δ	20 0					5A	TO8
64	AHD560	15		250M	1.0M		6.5		2.0 0	17 Δ	2.0 0					58	CN54
65	UTO311	15	§	300M	10M	8.5 †	2.0 †		1.3 0†		1.3 0†					20 *†	58
66	UTO310	15	§	300M	10M	9.0 †	1.5 †		1.3 0†		1.3 0†					13 *†	58
67	AH54	15		400M	5.0M		6.0		2.0 0	17 Δ	20 0					5A	TO8
68	AH56	15		400M	5.0M		7.5		2.0 0	17 Δ	20 0					5A	TO8
69	AH401	15		400M	5.0M		5.0		2.0 0	17 Δ	2.0 0					5A	TO12
70	AH402	15		400M	5.0M		7.5		2.0 0	17 Δ	2.0 0					5A	TO12
71	AH404	15		400M	5.0M		9.0		2.0 0	17 Δ	2.0 0					57	TO12
72	AH591	15		400M	10M		4.5		2.0 0	17 Δ	20 0					5A	TO8
73	AH592	15		400M	10M		7.5		2.0 0	17 Δ	20 0					5A	TO8
74	AH594	15		400M	10M		7.5		2.0 0	17 Δ	20 0					5A	TO8
75	UTO416	15	§	400M	5.0M	14 †	4.0 †		1.4 0†		1.2 0†					12 *†	58
76	UTO410	15	§	400M	5.0M	17 †	2.7 †		1.8 0†		1.5 0†					0.5 *†	58
77	UTO421	15	§	400M	5.0M	29 †	4.5 †		1.3 0†		1.4 0†					6.0 *†	58
78	AH1	15		500M	5.0M		3.5		2.0 0	17 Δ	20 0					5A	TO8
79	AH3	15		500M	5.0M		4.5		2.0 0	17 Δ	20 0					5A	TO8
80	AH5	15		500M	5.0M		6.0		2.0 0	17 Δ	20 0					5A	TO8
81	AH53#	15		500M	10M		4.0		2.0 0	17 Δ	20 0					5A	TO8
82	AH55	15		500M	10M		6.5		2.0 0	17 Δ	20 0					5A	TO8
83	AH58	15		500M	5.0M		6.5		2.0 0	17 Δ	20 0					5A	TO8
84	AH59#	15		500M	5.0M		7.0		2.0 0	17 Δ	20 0					5A	TO8
85	AH74	15		500M	5.0M		6.0		2.0 0	17 Δ	20 0					5A	TO8
86	AH75	15		500M	5.0M		3.5		2.0 0	17 Δ	20 0					5A	TO8
87	AH76	15		500M	5.0M		6.0		2.0 0	17 Δ	20 0					5A	TO8
88	AH77	15		500M	5.0M		6.5		2.0 0	17 Δ	20 0					5A	TO8
89	AH521	15		500M	10M		4.5		2.0 0	17 Δ	20 0					5A	TO8
90	AH522#	15		500M	10M		3.0		2.0 0	17 Δ	20 0					5A	TO8
91	AH4229	15		500M	500k		8.0		2.0 0	17 Δ	20 0					5A	TO8
92	AH4230	15		500M	500k		9.0		2.0 0	17 Δ	20 0					58	TO3
93	AHD554#	15		500M	5.0M		6.5		2.0 0	17 Δ	20 0					58	CN54
94	AHD555#	15		500M	5.0M		5.0		2.0 0	17 Δ	20 0					58	CN54
95	AHD561	15		500M	1.0M		7.0		2.0 0	17 Δ	2.0 0					58	CN54
96	UTO524																

7. WIDEBAND AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER
(3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C RATED SPECS		TRANSFER CHARACTERISTICS @25°C					INPUT CHAR. @25°C		OUTPUT CHAR. @25°C			TRANSIENT CHAR. @25°C		DRAWINGS		
		1 | TOT VOLT (ΔV)	2 | MAX IDLE P (W)	3 | MIN. UPPER (Hz)	4 | MAX. LOWER (Hz)	5 | VOLTAGE GAIN (dB)	6 | MIN. NOISE FIGURE (dB)	7 | MAX. THD (%)	8 | MIN RESIST (Ω)	9 | MAX P-P VOLTS (ΔV)	10 | MAX. RESIST (Ω)	11 | MIN. VOLT P-P (ΔV)	12 | LOAD RESIST (Ω)	13 | RISE (s)	14 | DELAY (s)	15 | E O M D P E	16 | CKT.	17 | OUT-LINE Δ=MO
1	UTO2003	15		1.0G	2.0G	7.5	8.5	2.0 0		2.0 0						58		TO8
2	UTO2011	15		1.0G	2.0G	7.5	5.5	2.0 0		2.0 0						58		TO8
3	UTO2011R	15		1.0G	2.0G	7.5	5.0	2.0 0		2.0 0						5C		TO8
4	UTO2002R	15		1.0G	2.0G	8.0	7.0	2.0 0		2.0 0						5C		TO8
5	UTO2003R	15		1.0G	2.0G	8.0	8.0	2.0 0		2.0 0						5C		TO8
6	UTO1012	15		1.0G	5.0M	16 †	3.0 †	1.8 0†		1.5 0†			7.0 *†			58		
7	UTO1013	15		1.0G	5.0M	16 †	3.0 †	1.3 0†		1.4 0†			10 *†			58		
8	UTO1021	15		1.0G	5.0M	24 †	3.8 †	1.6 0†		1.6 0†			13 *†			58		
9	AH64	15		1.2G	10M		4.8	2.0 0		2.0 0	17 Δ					5A		TO8
10	AH23	15		1.5G	5.0M		6.0	2.0 0		17 Δ	2.0 0					5A		TO8
11	AH24	15		1.5G	5.0M		5.8	2.0 0		17 Δ	2.0 0					5A		TO8
12	AH25	15		1.5G	5.0M		8.0	2.0 0		17 Δ	2.0 0					5A		TO8
13	AH27	15		1.5G	10M		9.5	2.0 0		17 Δ	2.0 0					5A		TO8
14	AH28	15		1.5G	10M		7.5	2.0 0		17 Δ	2.0 0					5A		TO8
15	AH29	15		1.5G	10M		13	2.0 0		17 Δ	2.0 0					5A		TO8
16	UTO1522	15		1.5G	5.0M	20 †	4.5 †	1.5 0†		1.5 0†			13 *†			58		
17	UTO1524	15		1.5G	10M	22 †	4.0 †	1.5 0†		1.5 0†			10 *†			58		
18	UTO2302	15		1.7G	2.3G	8.0	7.0	2.0 0		2.0 0						58		TO8
19	UTO2302R	15		1.7G	2.3G	8.0	6.5	2.0 0		2.0 0						5C		TO8
20	UTO2303	15		1.7G	2.3G	8.0	8.5	2.0 0		2.0 0						58		TO8
21	UTO2303R	15		1.7G	2.3G	8.0	8.0	2.0 0		2.0 0						5C		TO8
22	UTO2311	15		1.7G	2.3G	8.0	5.5	2.0 0		2.0 0						58		TO8
23	UTO2311R	15		1.7G	2.3G	8.0	5.0	2.0 0		2.0 0						5C		TO8
24	UTO2321	15		1.7G	2.3G	13	8.5	2.0 0		2.0 0						58		TO8
25	AH31	15		2.0G	10M		4.5	2.0 0		17 Δ	2.0 0					5A		TO8
26	AH33	15		2.0G	10M		6.0	2.0 0		17 Δ	2.0 0					5A		TO8
27	AH35	15		2.0G	10M		7.0	2.0 0		17 Δ	2.0 0					5A		TO8
28	AH37	15		2.0G	10M		8.5	2.0 0		17 Δ	2.0 0					5A		TO8
29	AH39	15		2.0G	10M		10	2.0 0		17 Δ	2.0 0					5A		TO8
30	UTO2012	15	\$	2.0G	500M	8.5	5.0	2.0 0		2.0 0			11 *			57		TO8
31	UTO2013	15	\$	2.0G	500M	8.5	6.0	2.0 0		2.0 0			18 *			57		TO8
32	AH0013CA	15	150m†	20M†		35 †		100T	2.0	50 †	3.0	50				07	E106	DL8bl
33	AH0013CB	15	150m†	20M†		35 †		100T	2.0	50 †	3.0	50				07	E106	DL8bl
34	AH0013MA	15	150m†	20M†		35 †		100T	2.0	50 †	3.0	50				5C	E106	DL8bl
35	AH0013MB	15	150m†	20M†		35 †		100T	2.0	50 †	3.0	50				5C	E106	DL8bl
36	1438B	15	420m		40M*	95 †	6.0 *†	10M	24		24		9.0n			07	A039a	TO99
37	1438B-83	15	420m		40M*	95 †	6.0 *†	10M	24		24		9.0n			5C	A039a	TO99
38	MC3373P	15	1.2 Ω	30k	80k	60 †		40k			500m					07	E105	DL8ac
39	TL592P	16	500mΔ	1.0M	40M	600 \$	12 *	4.0k	2.0	20	3.4		10n†	7.5n†		07	E072b	DL8Z
40 #	HA17733G	16	500mΔ	40M		48		10k	12	20 †	3.0					27	E040	DL14cs
41	GPD403	24		400M	400M	9.0	7.5 †	2.0 0		2.0 0								TO12
42	GPD463	24		400M	400M	9.0	7.5 †	2.0 0		2.0 0								TO12
43	UTO1521	24		1.0M	1.5G	26	8.5	2.5 0		2.5 0						58		TO8
44	UTO1504	24		2.0M	1.5G	8.5	8.5	2.0 0		2.0 0						58		TO3
45	UTO1503	24		5.0M	1.5G	5.5	9.0	2.0 0		2.0 0						58		TO8
46	UTO504	24		5.0M	500M	6.0	11	2.0 0		2.0 0						58		TO8
47	UTO504R	24		5.0M	500M	6.0	11	2.0 0		2.0 0						5C		TO8
48	UTO1503R	24		5.0M	1.5G	6.0	9.0	2.0 0		2.0 0						5C		TO8
49	UTO1003	24		5.0M	1.0G	8.0	8.5	2.0 0		2.0 0						58		TO8
50	UTO503	24		5.0M	500M	8.5	7.0	2.0 0		2.0 0						58		TO8
51	UTO503R	24		5.0M	500M	9.0	7.0	2.0 0		2.0 0						5C		TO8
52	UTO1003R	24		5.0M	1.0G	9.0	8.0	2.0 0		2.0 0						5C		TO8
53	MHW1134	24		5.0M	200M	12	8.0	75		75		75				2A	D067	MS16
54	UTO513	24		5.0M	500M	15	6.0	2.0 0		2.0 0						58		TO8
55	UTO513R	24		5.0M	500M	16	6.0	2.0 0		2.0 0						5C		TO8
56	UTO508	24		10M	500M	11	9.0	2.0 0		2.0 0						58		TO8
57	MHW2122	24		40M	300M	12	8.0	75		75		75				2A	D067	MS16
58	MHW2162	24		40M	300M	16	6.5	75		75		75				2A	D067	MS16
59	MHW3171	24		40M	330M	16	6.0	75		75		75				2A	D067	MS16
60	MHW3172	24		40M	330M	16	7.0	75		75		75				2A	D067	MS16
61	MHW3181	24		40M	330M	17	6.0	75		75		75				2A	D067	MS16
62	MHW3182	24		40M	330M	17	7.0	75		75		75				2A	D067	MS16
63	MHW5181	24		40M	450M	18	6.5	75		75		75				2A	D067	MS16
64	MHW5182	24		40M	450M	18	7.0	75		75		75				2A	D067	MS16
65	MHW3222	24		40M	330M	21	6.5	75		75		75				2A	D067	MS16
66	MHW2332	24		40M	300M	32	5.5	75		75		75				2A	D067	MS16
67	MHW3342	24		40M	330M	33	5.5	75		75		75				2A	D067	MS16
68	AH403	24		400M	5.0M		9.0	2.0 0	25	2.0 0						57		TO12
69	AH593	24		400M	10M		7.5	2.0 0	25 Δ	2.0 0						57		TO8
70	AH7	24		500M	5.0M		6.5	2.0 0	25 Δ	2.0 0						58		TO8
71	AH9	24		500M	5.0M		10	2.0 0	25 Δ	2.0 0						57		TO8
72	AH57-1	24		500M	10M		7.0	2.0 0	25 Δ	2.0 0						5A		TO8
73	HX610	24	1.4	100M†		52		300k†	6.0		5.0	100				68	E043	CN17e
74	AH4013	28		500M	10M		7.0	2.0 0	29 Δ	2.0 0						58		TO3
75	AH4077	28		500M	500k		7.5	2.0 0	29 Δ	2.0 0						58		TO3
76	OM322	28	100mΔ	40M	860M		7.0	1.7 0		1.7 0		75				27	E058a	FP35
77	SSM2012(A)	30		100k		40	-98	.02	9.0							15	E108	DL14Z
78	AD380JH	30	225m	40M*	350MZ	25k		100G\$	20	100 \$	20	200	90n0			07	E101	TO8
79	AD380KH	30	225m	40M*	350MZ	25k		100G\$	20	100 \$	20	200	90n0			07	E101	TO8
80	AD380LH	30	225m	40M*	350MZ	25k		100G\$	20	100 \$	20	200	90n0			07	E101	TO8
81	AD380SH#mil	30	225m	40M*	350MZ	25k		100G\$	20	100 \$	20	200	90n0			6C	E101	TO8
82	TP3554D	30	360m	35M0	90M	100		1.0T		20	21					28	A411	TO3
83	TP3554D-80	30	360m	35M0	90M	100		1.0T		20	21					5C	A411	TO3
84	TP3554D-83	30	360m	35M0	90M	100		1.0T		20	21					5C	A411	TO3
85	AD3554AH	30	810m	70MΔ	90MΔ	90		100G\$	30	20 \$	20	100	250n0			28	E102	TO3
86	AD3554BH	30	810m	70MΔ	90MΔ	90		100G\$	30	20 \$	20	100	250n0			28	E102	TO3
87	AD3554SH#mil	30	810m	70MΔ	90MΔ	90		100G\$	30	20 \$	20	100	250n0			5C	E102	TO3
88	2035	30	300	700M		80		1.0M	22 †	10		50	20n	130n		5C	E086	CN22e
89	2035-83	30	300	700M		80		1.0M	22 †	10		50						

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	1 | NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE		2 | MAX INPUT LINE VOLT | V		MIN OUT/ IN DIFF. (ΔV)	3 | MAX POWER DISS. @ 25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG		MAX LOAD REG		MAX TRANSIENT RECOVERY		T E O M P E	C D	DRAWINGS	
			LOW (V)	HIGH (V)	VOLT	V						VOLT	CHG. (ΔV)	CHG. (ΔV)	OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	@LINE CHG. (S)				@LOAD CHG. (S)	CKT.	OUT-LINE Δ=MO
1	CJSE052		5.1	5.2								-12	2.0	3.0	1.0	60			5A		TO3
2	CJSE053		5.1	5.2								-12	1.0	3.0	1.0	60			5A		TO3
3	CJSE057		5.1	5.2								-12	3.0	3.0	1.0	60			5A		TO3
4	CJSE058		5.1	5.2								-12	2.0	3.0	1.0	60			5A		TO3
5	CJSE059		5.1	5.2								-12	1.0	3.0	1.0	60			5A		TO3
6	LLM338		1.2	32			35	*	10m			32	.03 Δ	4.9	25 Δ	60 †			0C	F238	TO3
7	LLM350		1.2	33			35	*	10m			32	.03 Δ	2.9	25mΔ	65 †			0C	F238	TO3
8	LM117HVH		1.2	57				*	1.5			57	.02 Δ	10m	0.3	66			5F	F166	TO39
9	LM117MR		1.2	37				*	5.0m			37	.02	490m	.30	66			5E	F208	TO66
10	LM138K		1.2	32				*	7.0			32	.01 Δ	4.9	15mΔ	60			5F	F166a	TO3
11	LM217HVH		1.2	57				*	1.5			57	.02 Δ	10m	0.3	66			2F	F166	TO39
12	LM217MR		1.2	37				*	5.0m			37	.02	490m	.30	66			2E	F208	TO66
13	LM238K		1.2	32				*	7.0			32	.01 Δ	4.9	15mΔ	60			2F	F166a	TO3
14	LM317HVH		1.2	57				*	1.5			57	.04 Δ	10m	0.5	66			0C	F166	TO39
15	LM317MR		1.2	37				*	10m			37	.04	490m	.50	66			0C	F208	TO66
16	LM317MT		1.2	37				*	10m			37	.04	490m	.50	66			0C	F208	TO220
17	LM338K		1.2	32				*	7.0			32	.03 Δ	4.9	25mΔ	60			0C	F166a	TO3
18	LM350T		1.2	33				*	10m			32	.03	25m	.50 Δ	66			0F	F208	TO3
19	LM2931T		3.0	24						200m		7.0	10m§	145m	50mΔ	80			4B	F228	TO220
20	SG150AK		1.2	33			35	*	5.0m			32	.01 Δ	2.9	0.3	66			5F	F166a	TO3
21	SG250AK		1.2	33			35	*	5.0m			32	.01 Δ	2.9	0.3	66			5F	F166a	TO3
22	SG350AK		1.2	33			35	*	10m			32	.03 Δ	2.9	0.5	66			0C	F166a	TO3
23	uPC141D		4.5	30								40	.03	12m	0.1	3.0mΔ			28	F003	DL8av
24	D13V1		8.5	40				500m		20									5C	F245	TO98
25	D13V2		8.5	40				500m		10									5C	F245	TO98
26	D13V3		8.0	80				500m		10									5C	F245	TO98
27	D13V4		8.0	80				500m		10									5C	F245	TO98
28	LM337LZ		1.2	37			40	625m*	100m			37	.04 Δ	95m	500m	66			2C		TO92
29	uA723CP		2.0	37				660m	150m			3.0	.10	49m	.20	74 †			07	F030b	
30	uA723J		2.0	37				660m	150m			3.0	.10	49m	.15	74 †			5C	F030b	
31	uA723P		2.0	37				660m	150m			3.0	.10	49m	.15	74 †			5C	F030b	
32	TL431CLP		2.5	36				775m		20									07	F221	TO92
33	TL431ILP		2.5	36				775m		20									4B	F221	TO92
34	NE550H		2.0	40			37 Δ	800m			.01 Δ	32	.30	49m	.20				07		TO99
35	SE550H		2.0	40			45 Δ	800m			.01 Δ	32	.10	49m	.10				5C		TO99
36	uA723CT		2.0	37				800m	150m			3.0	.10	49m	.20	74 †			07	F030b	
37	uA723T		2.0	37				800m	150m			3.0	.10	49m	.15	74 †			5C	F030b	
38	L78M		7.5	35			7.5 *	1.0	500m			4.0	100m†	495m	200m†	62			17	F231	MT55
39	SG137T		1.2	37			40 Δ	1.0 *	1.5				.02 Δ		.50	60 †			5F		TO39
40	SG237T		1.2	37			40 Δ	1.0 *	1.5				.02 Δ		.50	60 †			2F		TO39
41	SG337T		1.2	37			40 Δ	1.0 *	1.5				.02 Δ		1.0	60 †			0C		TO39
42	TL431CP		2.5	36				1.0		20			.04 Δ			60 †			07	F221	DL8p
43	TL431IP		2.5	36				1.0		20			.04 Δ			60 †			4B	F221	DL8p
44	SG237P		1.2	37			40 Δ	2.0 *	1.5				.02 Δ		.50	60 †			2F		Y220
45	SG337P		1.2	37			40 Δ	2.0 *	1.5				.04 Δ		1.0	60 †			0C		Y220
46	TDB0117CM		1.2	37				2.0	500m			37	.04	10m	.50	65 †			0C	F166	TO39
47	TDC0117CM		1.2	37				2.0	500m			37	.02	10m	.30	65 †			5F	F166	TO39
48	TDC0117KM		1.2	37				2.0	1.5			37	.02	10m	.30	65 †			5F	F166	TO3
49	TDE0117CM		1.2	37				2.0	500m			37	.02	10m	.30	65 †			2F	F166	TO39
50	TL783CKC		1.2	125				2.0				105	.01 Δ	685m	0.5	66			0C	F166	Y220b
51	SG137R		1.2	37			40 Δ	3.0 *	1.5				.02 Δ		.50	60 †			5C		TO66
52	SG237R		1.2	37			40 Δ	3.0 *	1.5				.02 Δ		.50	60 †			2F		TO66
53	SG337R		1.2	37			40 Δ	3.0 *	1.5				.04 Δ		1.0	60 †			0C		TO66
54	SG137K		1.2	37			40 Δ	4.3 *	1.5				.02 Δ		.50	60 †			5F		TO3
55	SG150K		1.2	33			35 Δ	4.3 *	3.0				.01 Δ		.30	65 †			5F		TO3
56	SG237K		1.2	37			40 Δ	4.3 *	1.5				.02 Δ		.50	60 †			2F		TO3
57	SG250K		1.2	33			35 Δ	4.3 *	3.0				.01 Δ		.30	65 †			2F		TO3
58	SG337K		1.2	37			40 Δ	4.3 *	1.5				.04 Δ		1.0	60 †			0C		TO3
59	SG350K		1.2	33			35 Δ	4.3 *	3.0				.03 Δ		.50	65 †			0C		TO3
60	TDB0117SP		1.2	37				15	1.5			37	.04	10m	.50	65 †			0C	F166	Y220
61	TDB0117KM		1.2	37				20	1.5			37	.04	10m	.50	65 †			0C	F166	TO3
62	TDE0117KM		1.2	37				20	1.5			37	.02	10m	.30	65 †			2F	F166	TO3
63	HCCA100		8.0	56				39			5.0mΔ	48	2.0	3.0	1.0	65 †			2F		TO3
64	LM196K		1.2	15				50			.01 Δ	17	.01	7.0	.15	60			5E	F166a	TO220
65	LM396K		1.2	15				50			.02 Δ	17	.02	7.0	.15	66			0C	F166a	TO220
66	TL497MN		8	30		12		1.0	500m				.2		.4				5C	F225	DL14x
67	TDB1468CM		15	15	30	2.0	800m					12	10m§	50m	10mΔ	75 †			07	F098	TO100
68	TDC1468CM		15	15	30	2.0	800m					12	10m§	50m	10mΔ	75 †			5C	F098	TO100
69	TDB1468DP		15	15	30	2.0	1.0					12	10m§	50m	10mΔ	75 †			07	F098b	TO116
70	TDC1468DP		15	15	30	2.0	1.0					12	10m§	50m	10mΔ	75 †			5C	F098b	TO116
71	NE5553H		12	12 Δ	32	2.5		400m				10	300m§	49m	50mΔ				0C	F200a	TO99
72	NE5553U		12	12 Δ	32	2.5		400m				10	300m§	49m	50mΔ				0C	F200b	Y220
73	NE5554H		15	15 Δ	32	2.5		400m				10	300m§	49m	50mΔ				0C	F200a	TO99
74	NE5554U		15	15 Δ	32	2.5		400m				10	300m§	49m	50mΔ				0C	F200b	Y220
75	SE5553H		12	12 Δ	32	2.5		400m				10	150m§	49m	25mΔ				5F	F200a	TO99
76	SE5553U		12	12 Δ	32	2.5		400m				10	150m§	49m	25mΔ				5F	F200b	Y220
77	SE5554H		15	15 Δ	32	2.5		400m				10	150m§	49m	25mΔ				5F	F200a	TO99
78	SE5554U		15	15 Δ	32	2.5		400m				10	150m§	49m	25mΔ				5F	F200b	Y220
79	UC150K		1.2	33	35			*	5.0m			32	.01 Δ	10m	.30	66			5F		TO3
80	UC250K		1.2	33	35			*	5.0m			32	.01 Δ	10m	.30	66			2F		TO3
81	UC350K		1.2	33	35			*	10m			32	.03 Δ	10m	.10	66			0F		TO3
82	L200J		2.8	36	40	32	*		1.5m	1.5m			1.5	.50					5F	F219	MT14
83	L200CH		2.8	36	40	32	*		1.5m	1.5m											

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT RANGE (V)		MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	MAX POWER DISS. @ 25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE REG. CHG. (ΔV)	MAX. OUTPUT CHG. (%)	MAX. LOAD REG. CUR. (ΔA)	MAX. OUTPUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY		T E O P M E	DRAWINGS	
			LOW (V)	HIGH (V)												@LINE CHG. (s)	@LOAD CHG. (s)			
1	SFC2723KM		2.0	37	40	3.8	900m				28			.20 Δ				5C	F030a	TO116
2	LM105T		4.5	40	50	3.0	500m							.06 Δ				5C	F003	TO5
3#	L146CT		2.0	77	80	78 Δ	520m							.01 Δ				2F	F224	TO100
4#	L146T		2.0	77	80	78 Δ	520m							.01 Δ				2F	F224	TO100
5	TDB1146DP		2.0	77	80		520m											07	F184	TO100
6	TDC1146CM		2.0	77	80		520m											5C	F184	TO100
7#	L146CB		2.0	77	80	78 Δ	1.0							.01 Δ				2F	F224	DL14cs
8	TDB1146CM		2.0	77	80		1.0											07	F184	TO116
9	LM937	0.3 %	1.2	37	40	1.3	2.0	1.5	1.0 %				.04					0E		TO220
10	TL317P	0.5	1.2	32	35	1.3	775m	100m	1.0 %				1.0					0E		DL9p
11	TL317JG	0.5	1.2	32	35	1.3	1.0	100m	1.0 %				1.0					0E		DL8r
12	MC1466L	1.0			35		750m	1.0m		3.0m	30m	1.0m	200m					0E		F043
13	MC1566L	1.0			35		750m	1.0m		1.0m	10m	1.0m	100m					5C	F043	TO116
14	MC7902CT	2.0	4.0 %	4.0 %	35	3.5	2.5	1.5	1.0m†	18	40m‡	1.5	120mΔ					0C	F116a	Y220b
15	MC7902CK	2.0	4.0 %	4.0 %	35	3.5	2.5	1.5	1.0m†	18	40m‡	1.5	120mΔ					0C	F116	CN48
16	LAS1802	2.5	5.0 %	5.0 %	35	2.1	1.5	1.5		15	2.0	1.4	600m					5E	F169	CN48b
17	AD580JH	2.5	3.0 %	3.0 %	40	4.5 *	350m	10m		212u	23	6.0m‡	10m	10mΔ				07	F122	TO52
18	AD580KH	2.5	2.0 %	2.0 %	40	4.5 *	350m	10m		100u	23	4.0m‡	10m	10mΔ				07	F122	TO52
19	AD580LH	2.5	2.0 %	2.0 %	40	4.5 *	350m	10m		62u	23	2.0m‡	10m	10mΔ				07	F122	TO52
20	AD580MH	2.5	1.0 %	1.0 %	40	4.5 *	350m	10m		25u	23	2.0m‡	10m	10mΔ				07	F122	TO52
21▼	AD580SH/883B	2.5	3.0 %	3.0 %	40	4.5 *	350m	10m		137u	23	6.0m‡	10m	10mΔ				5C	F122	TO52
22▼	AD580TH/883B(M)	2.5	2.0 %	2.0 %	40	4.5 *	350m	10m		62u	23	2.0m‡	10m	10mΔ				5C	F122	TO52
23▼	AD580UH/883B(M)	2.5	1.0 %	1.0 %	40	4.5 *	350m	10m		25u	23	2.0m‡	10m	10mΔ				5C	F122	TO52
24▼	AM6300DC(A)	2.5	2.5	37	40	4.0	1.0	100m		28	0.2	4.0m	15					07	F246	DL20c
25▼	AM6300DM(A)	2.5	2.5	37	40	4.0	1.0	100m		28	0.2	4.0m	15					5C	F246	DL20c
26▼	AM6300PC(A)	2.5	2.5	37	40	4.0	1.0	100m		28	0.2	4.0m	15					07	F246	DL20c
27	uA78L02ACJG	2.6	5.0 %	5.0 %	20	1.1	100m			15	75m‡	99m	50mΔ	43				0C	F164	DL8v
28	uA78L02CJG	2.6	10 %	10 %	30	1.1	100m			15	100m‡	99m	50mΔ	42				0C	F164	DL8v
29	78L02ACDB	2.6	5.0 %	5.0 %	30	1.7	700m	100m		15	75m‡	99m	50mΔ	43				0C	F175	CN40
30#	78L02ACS	2.6	5.0 %	5.0 %	30	1.7	700m	100m		15	75m‡	99m	50mΔ	43				0C	F175a	TO92
31	78L02CDB	2.6	10 %	10 %	30	1.7	700m	100m		15	100m‡	99m	50mΔ	42				0C	F175	CN40
32#	78L02AS	2.6	4.0 %	4.0 %	30	1.7	700m*	100m	100m	15	100m‡	99m	50mΔ	43				0E	F164	TO92
33	uA78L02AS	2.6	4.0 %	4.0 %	30	1.7	700m*	100m	100m	15	100m‡	99m	50mΔ	42				0E	F164	TO92
34	uA78L02S	2.6	7.6 %	7.6 %	30	1.1	700m*	100m		15	125m‡	99m	50mΔ	42				0E	F164	TO92
35	MC79L03ACP	3.0	5.0 %	5.0 %	30	1.7	700m	100m		13	60m‡	99m	72mΔ					0C	F145a	TO92
36	MC79L03CP	3.0	5.0 %	5.0 %	30	1.7	700m	100m		13	80m‡	99m	72mΔ					0C	F145a	TO92
37	MC79L03ACG	3.0	5.0 %	5.0 %	30	1.7	850m	100m		13	60m‡	99m	72mΔ					0C	F145	TO39
38	MC79L03CG	3.0	5.0 %	5.0 %	30	1.7	850m	100m		13	80m‡	99m	72mΔ					0C	F145	TO39
39	CJSE071	5.0								11	1.0	3.0	1.0							TO3
40	CJSE072	5.0								11	1.0	3.0	1.0							TO3
41	LM2931AT5.0	5.0							200m	7.0	10m‡	145m	50mΔ	80				48		TO220
42	LM2931AZ5.0	5.0							200m	7.0	10m‡	145m	50mΔ	80				48	F228	TO92
43	LM2931T5.0	5.0							200m	7.0	10m‡	145m	50mΔ	80				48		TO220
44	LM2931Z5.0	5.0							200m	7.0	10m‡	145m	50mΔ	80				48	F228	TO92
45	LM109KZ	5.0		35			4.5	1.0	.10									5E	F077	CN38b
46	LM123AK	5.0			20		*			7.5	15m‡	3.0	50mΔ	66				5C	F241	TO3
47	LM223AK	5.0			20		*			7.5	15m‡	3.0	50mΔ	66				2F	F241	TO3
48	LM323AK	5.0			20		*			7.5	15m‡	3.0	50mΔ	66				0C	F241	TO3
49	LM323AT	5.0			20		*			7.5	15m‡	3.0	50mΔ	66				0C	F241	Y220
50	LM323T	5.0			20		*			7.5	25m‡	3.0	100mΔ	62				0C	F241	Y220
51	LM145K5.0	5.0	2.0 %	2.0 %	20	2.5	15m*	3.0	18m†	12	15m‡	2.9	75mΔ	30				5F	G080	TO3
52	LM345K5.0	5.0	4.0 %	4.0 %	20	2.5	15m*	3.0	18m†	12	25m‡	2.9	100mΔ	30				0C	G080	TO3
53#	TBA625AX5	5.0	5.0 %	5.0 %	20	7.5 *	750m	100m	100m†	500m†	1.0 Δ	1.0 Δ	46					07	F078	TO39
54	uA78L05ACJG	5.0	5.0 %	5.0 %	20	1.1	100m			13	150m‡	99m	60mΔ	41				0C	F164	DL8v
55	uA78L05CJG	5.0	10 %	10 %	20	1.1	100m			13	200m‡	99m	60mΔ	40				0C	F164	DL8v
56#	L78M05	5.0	4.8	5.2	20	2.0	1.2	500m		12	1.0m‡	195m	50mΔ	62				17	F231	Y220a
57#	L78N05	5.0	4.8	5.2	20	2.0	1.2	500m		12	1.0m‡	195m	50mΔ	62				17	F231	MT55
58#	L129	5.0	5.0 %	5.0 %	20	2.8	1.2	1.2	15m†	500m†	4.5	23m‡	590m	1.0				28	F078	TO126
59#	TDN1405	5.0	5.0 %	5.0 %	20	2.8	1.2	1.2	15m†	500m†	4.5	23m‡	590m	1.0				07	F078	TO126
60#	L005T1	5.0	5.0 %	5.0 %	20	7.5 *	3.2	600m	15m†	3.0m†Δ	4.5	500m	1.0					07	F078	TO3
61	SG123K	5.0	6.0 %	6.0 %	20	4.3	3.0	3.0		7.5	25m‡	3.0	100mΔ					5F	F156	TO3
62	SG223K	5.0	6.0 %	6.0 %	20	4.3	3.0	3.0		7.5	25m‡	3.0	100mΔ					2F	F156	TO3
63	SG323K	5.0	4.0 %	4.0 %	20	4.3	3.0	3.0		7.5	25m‡	3.0	100mΔ					0C	F156	TO3
64	LM123K	5.0	6.0 %	6.0 %	20	7.5 *	3.0	3.0		7.5	25m‡	3.0	100mΔ					5F	F111	CN48a
65	LM223K	5.0	6.0 %	6.0 %	20	7.5 *	3.0	3.0		7.5	25m‡	3.0	100mΔ					2F	F111	CN48a
66	LM323K	5.0	6.0 %	6.0 %	20	7.5 *	3.0	3.0		7.5	25m‡	3.0	100mΔ					0C	F111	CN48a
67	LM340-5KC	5.0	4.0 %	4.0 %	25	1.0	1.5	1.5		18	100m‡	1.4	50mΔ	54				5F	F187	TO3
68	SG120-05K	5.0	2.0 %	2.0 %	25	1.0	1.5	1.5	30m†	500m†	18	25m‡	1.4	50mΔ	54			5F	F187	TO66
69	SG120-05R	5.0	2.0 %	2.0 %	25	1.0	1.5	1.5		500m†	18	25m‡	1.4	50mΔ	54			5F	F187	TO39
70	SG120-05T	5.0	2.0 %	2.0 %	25	1.0	1.5	1.5	500m†	30m†	500m†	18	25m‡	495m	40mΔ	54		5F	F187	TO39
71	SG140-05K	5.0	4.0 %	4.0 %	25	7.0 *	1.5	1.5	17m†	500m†	18	50m‡	1.4	50mΔ	78			5F	F091	TO3
72	SG140-05R	5.0	4.0 %	4.0 %	25	7.0 *	1.5	1.5		500m†	18	50m‡	1.4	50mΔ	78			5F	F091	TO66
73	SG140-05T	5.0	4.0 %	4.0 %	25	7.0 *	1.5	1.5	500m†	17m†	500m†	18	50m‡	495m	25mΔ	78		5F	F091	TO39
74	SG220-05K	5.0	2.0 %	2.0 %	25	1.0	1.5	1.5	30m†	500m†	18	25m‡	1.4	50mΔ	54			2F	F187	TO3
75	SG220-05R	5.0	2.0 %	2.0 %	25	1.0	1.5	1.5		500m†	18	25m‡	1.4	50mΔ	54			2F	F187	TO66
76	SG220-05T	5.0	2.0 %	2.0 %	25	1.0	1.5	1.5	500m†	30m†	500m†	18	25m‡	495m	40mΔ	54		2F	F187	TO39
77	SG320-05K	5.0	4.0 %	4.0 %	25	1.0	1.5	1.5	30m†	500m										

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		2 | MAX INPUT LINE VOLT | (V)	3 | MIN OUT/IN DIFF. (ΔV)	4 | MAX POWER DISS. @ 25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG		MAX LOAD REG		MAX TRANSIENT RECOVERY		T C O M D P E	DRAWINGS	
			LOW (V)	HIGH (V)							LINE VOLT. CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	LOAD CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	@LINE CHG. (s)			@LOAD CHG. (s)	CKT.	OUT-LINE Δ=MO
1	SG7905AT	5.0			25	25	1.0	.50		40m††	18	25m§	495m	40mΔ	60	†	5F	F187	TO39
2	uA78M05CKD	5.0	4.0	4.0	25		1.5	500m			18	100m§	495m	100mΔ	62		0C	F161a	MT7
3	uA79M05CKD	5.0	4.0	4.0	25		1.5	500m			18	50m§	495m	100mΔ	50		0C	F163a	MT7
4	LM120H5.0	5.0	2.0	2.0	25		2.0	500m			18	25m§	495m	50mΔ			5C	F187	CN38d
5	LM320H5.0	5.0	4.0	4.0	25		2.0	500m			18	50m§	495m	50mΔ			0C	F187	CN38d
6	SG220-05P	5.0	100m§	100m§	25	2.0	2.0	*	1.5	500u†	18	25m§	1.5	50mΔ	54		0C	F187	Y220b
7	SG7905ACP	5.0			25	25	2.0	1.0		40m††	18	40m§	.50	50mΔ	60	†	0C	F187	Y220
8	SG7905P	5.0	200m§	200m§	25	2.0	2.0	*	2.5	500u†	18	50m§	1.5	50mΔ	54		5F	F187	Y220b
9#	TDB2905CM	5.0	2.0	2.0	25	25	2.0	200m			18	50m§	495m	50mΔ			07	F187	TO39
10#	TDC2905CM	5.0	2.0	2.0	25	25	2.0	200m			18	25m§	495m	50mΔ			5C	F161	TO39
11	uA78M05CKC	5.0	4.0	4.0	25		2.0	500m			18	100m§	495m	100mΔ	62		0C	F161	Y220b
12	uA79M05CKC	5.0	4.0	4.0	25		2.0	500m			18	50m§	495m	100mΔ	60		0C	F163	Y220b
13	uA7805CKC	5.0	4.0	4.0	25		2.0	1.5	17m†	1.1m†	18	100m§	1.4	100mΔ	50		0C	F165a	Y220b
14	uA7905CKC	5.0	4.0	4.0	25		2.0	1.5		400u†	18	100m§	1.4	100mΔ	54		0C	F162a	Y220b
15	SG7905ACR	5.0			25	25	3.0	1.5		40m††	18	40m§	.50	50mΔ	60	†	0C	F187	TO66
16	SG7905AR	5.0			25	25	3.0	1.5		40m††	18	25m§	.50	25mΔ	60	†	5F	F187	TO66
17	uA7805CKA	5.0	4.0	4.0	25		3.5	1.5	17m†	1.1m†	18	100m§	1.4	100mΔ	62		0C	F091	TO3
18	uA7805MKA	5.0	4.0	4.0	25		3.5	1.5	17m†	1.1m†	18	50m§	1.4	50mΔ	68		5C	F091	TO3
19	uA7805CKA	5.0	4.0	4.0	25		3.5	1.5		400u†	18	100m§	1.4	100mΔ	54		0C	F162	TO3
20	uA7905MKA	5.0	4.0	4.0	25		3.5	1.5		400u†	18	50m§	1.4	50mΔ	54		5C	F162	TO3
21	JANM38510/10706BYA	5.0			25														
22	JANM38510/10706BYC	5.0	5.0	5.0	25	8.0	3.6	1.0		2.0m	17	50m§	995m	100mΔ	60		5C	F186b	TO3
23	JANM38510/10706CYA	5.0	5.0	5.0	25	8.0	3.6	1.0		2.0m	17	50m§	995m	100mΔ	60		5C	F186b	TO3
24	JANM38510/10706CYC	5.0	5.0	5.0	25	8.0	3.6	1.0		2.0m	17	50m§	995m	100mΔ	60		5C	F186b	TO3
25	SG7905ACK	5.0	5.0	5.0	25	8.0	3.6	1.0		2.0m	17	50m§	995m	100mΔ	60		5C	F186b	TO3
26	SG7905AK	5.0			25	25	4.3	1.5		40m††	18	40m§	.50	50mΔ	60	†	0C	F187	TO3
27	LM320MP5.0	5.0	4.0	4.0	25	2.5	7.5	500m			17	40m§	495m	100mΔ	54		0C	F152	Y202a
28	LM320T5.0	5.0	4.0	4.0	25		15	1.5			17	40m§	1.4	120mΔ			0C	F152	MT3
29	LM120K5.0	5.0	2.0	2.0	25		20	1.5			18	25m§	1.4	75mΔ			5C	F187	TO3
30	LM320K5.0	5.0	4.0	4.0	25		20	1.5			18	50m§	1.4	100mΔ			0C	F187	CN48a
31	LM320K5.0	5.0	4.0	4.0	25		20	1.5			18	40m§	1.4	100mΔ	54		0C	F187	CN79
32#	TDB2905KM	5.0	2.0	2.0	25	25	20	1.0			18	50m§	1.5	100mΔ			07	F187	TO3
33#	TDB2905SP	5.0	2.0	2.0	25	25	20	1.0			18	50m§	1.5	100mΔ			07	F187	Y220a
34#	TDC2905KM	5.0	2.0	2.0	25	25	20	1.0			18	25m§	1.5	75mΔ			5C	F187	TO3
35	78H05KC	5.0	4.0	4.0	25		50				16	100m§	4.9	100mΔ	60		0E	F190	TO3
36	uA78H05KC	5.0	4.0	4.0	25	8.5	50	5.0			16	50m§	5.0	50mΔ	60		0E	F190	TO3
37	LAS3905	5.0			25	20	80	8.0		.03 Δ	12	2.0	7.9	60	60		5F	F182a	TO3
38	LAS3905K	5.0			25	20	80	8.0		.03 Δ	12	2.0	7.9	60	60		5F	F182a	TO3
39	LM330-5KC(A)	5.0			26		*				20	60m§	145m	50mΔ	56	†	07	F242	Y220
40	LM330T5.0	5.0			26		*				7.0	25m§	145m	50mΔ	56	†	07	F242	Y220
41	LM2930-5KC(A)	5.0			26		*				20	80m§	145m	50mΔ	56	†	48	F242	Y220
42	LM2930T5.0	5.0			26		*				7.0	25m§	145m	50mΔ	56	†	48	F242	Y220
43	LM78L05ACH	5.0	5.0	5.0	30		*	100m			13	75m§	99m	60mΔ	47		07	F148	CN38d
44▼	LM78L05ACZ	5.0	4.0	4.0	30		*	100m		5.0	13	75mΔ	99m	60mΔ	47		07	F148	TO92
45	LM78L05CH	5.0	10	10	30		*	100m			13	200m§	99m	60mΔ	40		07	F148	CN38d
46▼	LM78L05CZ	5.0	4.0	4.0	30		*	100m		10	13	75mΔ	99m	60mΔ	47		07	F148	TO92
47	LM342P5.0	5.0	4.0	4.0	30		*	200m			17	100m§	199m	100mΔ	45		07	F151	MT4
48	LM342P5.0TB	5.0			30		*				18	55m§	249m	50mΔ	50		07	F194	Y202
49#	ML78L05	5.0	4.0	4.0	30	10	500m	40m			12	150m§	39m	30mΔ	41		07	F227	TO92
50#	ML78L05A	5.0	2.0	2.0	30	10	500m	40m			12	100m§	39m	30mΔ	41		07	F227	TO92
51#	78L05ACS	5.0	5.0	5.0	30	1.7	700m	100m			12	100m§	99m	60mΔ	41		0C	F175a	TO92
52#	78L05CS	5.0	10	10	30	1.7	700m	100m			12	150m§	99m	60mΔ	40		0C	F175a	TO92
53#	MC78L05ACP	5.0	5.0	5.0	30	1.7	700m	100m			13	150m§	99m	60mΔ	41		0C	F144a	TO92
54	MC78L05CP	5.0	10	10	30	1.7	700m	100m			13	200m§	99m	60mΔ	40		0C	F144a	TO92
55	MC79L05ACP	5.0	5.0	5.0	30	1.7	700m	100m			13	150m§	99m	60mΔ	40		0C	F145a	TO92
56	MC79L05CP	5.0	10	10	30	1.7	700m	100m			13	200m§	99m	60mΔ	40		0C	F145a	TO92
57	uA78L05AS	5.0	4.0	4.0	30		700m*	100m			13	150m§	99m	60mΔ	41		0E	F164	TO92
58#	uA78L05S	5.0	8.0	8.0	30		700m*	100m			13	200m§	99m	60mΔ	40		0E	F164	TO92
59#	78L05ACDB	5.0	5.0	5.0	30	1.7	850m	100m			12	100m§	99m	60mΔ	41		0C	F175	TO39
60#	78L05CDB	5.0	10	10	30	1.7	850m	100m			12	150m§	99m	60mΔ	40		0C	F175	TO39
61#	MC78L05ACG	5.0	5.0	5.0	30	1.7	850m	100m			13	150m§	99m	60mΔ	41		0C	F144	TO39
62	MC78L05CG	5.0	10	10	30	1.7	850m	100m			13	200m§	99m	60mΔ	40		0C	F144	TO39
63	MC79L05ACG	5.0	5.0	5.0	30	1.7	850m	100m			13	150m§	99m	60mΔ	41		0C	F145	TO39
64	MC79L05CG	5.0	10	10	30	1.7	850m	100m			13	200m§	99m	60mΔ	40		0C	F145	TO39
65	uA78L05ADB	5.0	4.0	4.0	30		900m*	100m			13	150m§	99m	60mΔ	41		0E	F164	TO39
66	uA78L05DB	5.0	8.0	8.0	30		900m*	100m			13	200m§	99m	60mΔ	40		0E	F164	TO39
67	LAS1605	5.0	5.0	5.0	30	2.6	20	2.0		20mΔ	9.0	2.0	2.0	600m	60		5F	F182	CN75
68▼	LAS1605B	5.0	3.0	5.0	30	2.6	20	2.0		20mΔ	9.0	2.0	2.0	0.6	60		5F	F182	TO3
69▼	LAS1405B	5.0	3.0	5.0	30	2.5	30	3.0		20mΔ	10	1.0	2.0	0.6	60		5F	F182	TO3
70	LAS1905	5.0	5.0	5.0	30	2.5	50	5.0		30mΔ	9.0	2.0	5.0	30mΔ	60		5D	F182	TO3
71▼	LAS1905B	5.0	3.0	5.0	30	2.6	50	5.0		30mΔ	9.0	2.0	5.0	30mΔ	60		5D	F182	TO3
72	NE5551T	5.0	200m§	200m§	32	7.0	650m	300m		1.0m†	10	300m§	199m	100mΔ			0C	F200a	TO99
73	SE5551T	5.0	200m§	200m§	32	7.0	650m	300m		1.0m†	10	150m§	199m	50mΔ			5F	F200a	TO99
74	NE5551N	5.0	200m§	200m§	32	7.0	1.1	300m		1.0m†	10	300m§	199m	100mΔ			0C	F200	DL14aw
75	SE5551N	5.0	200m§	200m§	32	7.0	1.1	300m		1.0m†	10	150m§	199m	50mΔ			5F	F200	DL14aw
76	79M05CDB	5.0	200m§	200m§	35	1.1	500m	500m		400u†	18	50m§	495m	100mΔ	50		08	F163b	CN40
77	79M05CU	5.0	200m§	200m§	35	1.1	500m	500m		40									

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT RANGE		2 MAX. INPUT LINE VOLT (V)	MIN. IN DIFF. (ΔV)	3 MAX. POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE VOLT. CHG. (ΔV)	MAX. OUTPUT VOLT. CHG. (%)	MAX. LOAD REG. CUR. (ΔA)	OUT. VOLT. CHG. (%)	MIN. RIPPL. REJ. (dB)	MAX. TRANSIENT RECOVERY		T O C M D P E	DRAWINGS
			LOW (V)	HIGH (V)												@LINE (S)	@LOAD (S)		
1	MC7805BT	5.0	4%	4%	35	2.0	0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68	4E	F091g	Y220		
2	MC7805K	5.0	4%	4%	35	2.0	0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68	4E	F091g	CN48		
3	MC7905ACK	5.0	2.0%	2.0%	35	2.0	0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68	4E	F116	TO3		
4	MC7905ACT	5.0	2.0%	2.0%	35	2.0	0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68	4E	F116	Y220		
5#	ML7805A	5.0	2.0%	2.0%	35	2.0	0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68	4E	F091a	Y220b		
6#	SFC2109M	5.0	6.0%	6.0%	35	1.5	500m	30m	1.0m	18	100m§	500m	200m	30mΔ	29	F077	TO3		
7#	SFC2109HM	5.0	4.7%	5.3%	35	1.5	500m	30m	1.0m	18	100m§	500m	200m	30mΔ	29	F077	TO3		
8#	SFC2209	5.0	6.0%	6.0%	35	1.5	500m	30m	1.0m	18	100m§	500m	200m	30mΔ	29	F077	TO3		
9#	SFC2209R	5.0	6.0%	6.0%	35	1.5	500m	30m	1.0m	18	100m§	500m	200m	30mΔ	29	F077	TO3		
10#	SFC2309	5.0	4.0%	4.0%	35	1.5	500m	30m	1.0m	18	100m§	500m	200m	30mΔ	29	F077	TO3		
11#	SFC2309R	5.0	4.0%	4.0%	35	1.5	500m	30m	1.0m	18	100m§	500m	200m	30mΔ	29	F077	TO3		
12#	SFC2805EC	5.0	4.0%	4.0%	35	2.0	0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68	4E	F233	Y220b		
13#	SFC2805RC	5.0	4.0%	4.0%	35	2.0	0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68	4E	F233	TO3		
14#	TDD1605S	5.0	4.8%	5.2%	35	3.5	500m	30m	1.0m†	18	100m§	495m	100mΔ	62	4E	F233	MT5		
15	uA78L05AHC	5.0	4.0%	4.0%	35	7.0	100m	100m	650u†	13	150m§	99m	60mΔ	41	0E	F184	CN38e		
16	uA78L05AWC	5.0	4.0%	4.0%	35	7.0	100m	100m	650u†	13	150m§	99m	60mΔ	41	0E	F243	TO2		
17	uA78L05AWV	5.0	4.0%	4.0%	35	7.0	100m	100m	650u†	13	150m§	99m	60mΔ	41	0E	F164	TO2		
18	uA78L05HC	5.0	4.8%	5.2%	35	1.7	39m	39m	65m†	13	2.8mΔ	99m	1.1mΔ	41	4C	F164	CN38e		
19	uA78L05HM	5.0	4.8%	5.2%	35	1.7	39m	39m	65m†	13	2.8mΔ	99m	1.1mΔ	41	4C	F164	CN38e		
20	uA78M05HC	5.0	4.0%	4.0%	35	5.0	500m	500m	1.0m†	18	100m§	495m	100mΔ	62	5E	F165b	TO39		
21	uA78M05HM	5.0	4.0%	4.0%	35	5.0	500m	500m	1.0m†	18	100m§	495m	100mΔ	62	5E	F165b	TO39		
22	uA78M05UC	5.0	4.0%	4.0%	35	5.0	500m	500m	1.0m†	18	100m§	495m	100mΔ	62	5E	F165b	Y220b		
23	uA78M05UJ	5.0	4.8%	5.2%	35	1.1	39m	39m	1.0m†	18	1.9mΔ	495m	1.9mΔ	62	4E	F165a	MT24a		
24	uA78M05UVC	5.0	4.8%	5.2%	35	1.1	39m	39m	1.0m†	18	1.9mΔ	495m	1.9mΔ	62	4E	F165a	MT24a		
25	uA79M05AHC	5.0	4.0%	4.0%	35	5.0	500m	500m	400u†	18	50m§	495m	100mΔ	50	0E	F163	Y220b		
26	uA79M05AUC	5.0	4.0%	4.0%	35	5.0	500m	500m	400u†	18	50m§	495m	100mΔ	50	0E	F163	TO39		
27	uA79M05HM	5.0	4.0%	4.0%	35	5.0	500m	500m	400u†	18	50m§	495m	100mΔ	50	0E	F163	TO39		
28	uA79M05UJC	5.0	5.2%	4.8%	35	7.5	40u	40m†	40m†	18	1.0mΔ	495m	2.0mΔ	50	0E	F163	MT5		
29	uA109HM	5.0	6.9%	4.9%	35	2.0	500m	500m	400u†	18	50m§	495m	100mΔ	50	5E	F091a	CN38f		
30	uA109KM	5.0	6.9%	4.9%	35	2.0	500m	500m	400u†	18	50m§	495m	100mΔ	50	5E	F091a	TO3		
31	uA209KM	5.0	6.9%	4.9%	35	2.0	500m	500m	400u†	18	50m§	495m	100mΔ	50	2E	F091a	TO3		
32	uA309KC	5.0	4.9%	4.9%	35	2.2	22m*	22m*	1.5m†	18	50m§	1.4	100mΔ	62	0C	F091b	TO3		
33	uA7805KC	5.0	4.0%	4.0%	35	2.2	22m*	22m*	1.5m†	18	50m§	1.4	100mΔ	62	0C	F091c	TO3		
34	uA7805KM	5.0	4.0%	4.0%	35	2.2	22m*	22m*	1.5m†	18	50m§	1.4	100mΔ	62	0C	F091c	TO3		
35	uA7805UC	5.0	4.0%	4.0%	35	2.2	22m*	22m*	1.5m†	18	50m§	1.4	100mΔ	62	0C	F091c	MT5		
36	uA7805UJ	5.0	4.0%	4.0%	35	2.2	22m*	22m*	1.5m†	18	50m§	1.4	100mΔ	62	0E	F091c	MT5		
37	uA7805KC	5.0	4.0%	4.0%	35	2.2	22m*	22m*	1.5m†	18	50m§	1.4	100mΔ	62	0E	F162	TO3		
38	uA7805KM	5.0	4.0%	4.0%	35	2.2	22m*	22m*	1.5m†	18	50m§	1.4	100mΔ	62	0E	F162	TO3		
39	uA7805UC	5.0	4.0%	4.0%	35	2.2	22m*	22m*	1.5m†	18	50m§	1.4	100mΔ	62	0E	F162	MT5		
40	uA7805UJ	5.0	4.0%	4.0%	35	2.2	22m*	22m*	1.5m†	18	50m§	1.4	100mΔ	62	0E	F162a	TO3		
41	UC7805ACK	5.0	2.0%	2.0%	35	1.0	1.0	1.0	5.0m†	12	5.0m§	1.4	12mΔ	69	5E	F091c	Y220		
42	UC7805ACT	5.0	2.0%	2.0%	35	1.0	1.0	1.0	6.0m†	12	6.0m§	1.4	12mΔ	69	5E	F091c	TO3		
43	UC7805ACK	5.0	2.0%	2.0%	35	1.0	1.0	1.0	5.0m†	12	5.0m§	1.4	12mΔ	69	5E	F091c	TO3		
44	UC7805ACT	5.0	2.0%	2.0%	35	1.0	1.0	1.0	6.0m†	12	6.0m§	1.4	12mΔ	69	5E	F091c	TO3		
45	UC7805CT	5.0	2.0%	2.0%	35	1.0	1.0	1.0	5.0m†	12	5.0m§	1.4	12mΔ	69	5E	F091c	Y220		
46	UC7805CT	5.0	2.0%	2.0%	35	1.0	1.0	1.0	6.0m†	12	6.0m§	1.4	12mΔ	69	5E	F091c	TO3		
46	MC7805ACK	5.0	2.0%	2.0%	35	15m*	15m*	17m†	1.1m†	16	50m§	3.5m	100mΔ	68	0F	F091	TO3		
47	MC7805AK	5.0	2.0%	2.0%	35	15m*	15m*	17m†	1.1m†	16	50m§	3.5m	100mΔ	68	0F	F091	TO3		
48	LM140L-5.0	5.0	2.0%	2.0%	35	22m*	22m*	30m†	60m†	50m	12	4.0m	50mΔ	88	5C	F091	CN43		
49	LM140LAH5.0	5.0	2.0%	2.0%	35	2.0	100m	200m†	2.0	17	99m	99m	40mΔ	35	5C	F148	TO3		
50	LM340L-5.0	5.0	2.0%	2.0%	35	2.0	100m	200m†	2.0	17	99m	99m	40mΔ	35	5C	F148	TO3		
51	LM340LAH5.0	5.0	2.0%	2.0%	35	2.0	100m	200m†	2.0	17	99m	99m	40mΔ	35	0C	F148	CN40		
52	LM340LAZ5.0	5.0	2.0%	2.0%	35	2.0	100m	200m†	2.0	17	99m	99m	40mΔ	35	0E	F148	TO3		
53	LM320LZ5.0	5.0	4.0%	4.0%	35	0.6	800m	800m	3.0	18	30m§	249m	50mΔ	54	0E	F201	TO2		
54	MC78M05CG	5.0	4.0%	4.0%	35	2.0	800m	800m	1.0m†	18	100m§	495m	100mΔ	80	0C	F091d	TO39		
55	TA78L005AP	5.0	4%	4%	35	1.0	150m	150m	0.8m†	13	200m§	99m	60mΔ	40	3E	F091d	MP23		
56	TA78L005P	5.0	6.4%	6.4%	35	1.7	0.8	150m	0.8m†	13	200m§	99m	60mΔ	40	3E	F091d	MP23		
57	78M05CDB	5.0	4.0%	4.0%	35	2.0	850m	850m	1.0m†	18	100m§	495m	100mΔ	62	0E	F091d	TO39		
58	78M05DB	5.0	4.0%	4.0%	35	2.0	850m	850m	1.0m†	18	100m§	495m	100mΔ	62	5E	F091d	TO39		
59	LM309HZ	5.0	4.0%	4.0%	35	2.0	900m	900m	1.0m†	18	50m§	495m	50mΔ	80	0E	F077	CN38b		
60	RC4194DC	5.0	50m	32	35	3.0	900m	150m	15mΔ§	950m	100m	99m	4.0m*	76	0E	F096a	DL14av		
61	LM209HZ	5.0	4.0%	4.0%	35	2.0	950m	200m	1.0m†	18	100m§	495m	100mΔ	80	5E	F096a	CN38b		
62	7805CU	5.0	200m§	200m§	35	1.1	1.0	17m†	400u†	18	100m§	1.5	100mΔ	54	0E	F162	TO3		
63	7805CU	5.0	200m§	200m§	35	1.1	1.0	17m†	400u†	18	100m§	1.5	100mΔ	54	0E	F162	Y220b		
64	7805DA	5.0	200m§	200m§	35	1.1	1.0	17m†	400u†	18	50m§	1.5	50mΔ	54	5C	F162	TO3		
65	SA7805CDA	5.0	200m§	200m§	35	2.0	1.0	17m†	1.1m†	18	100m§	1.5	100mΔ	62	4E	F091c	TO3		
66	SA7805CU	5.0	200m§	200m§	35	2.0	1.0	17m†	1.1m†	18	100m§	1.5	100mΔ	62	4E	F091c	Y220b		
67	SG109T	5.0	2.0%	2.0%	35	1.5	1.0	500m	100m†	20m	18	50m§	1.4	50mΔ	75	5E	F077	TO5	
68	SG209T	5.0	2.0%	2.0%	35	1.5	1.0	500m	100m†	20m	18	50m§	1.4	50mΔ	75	2E	F077	TO5	
69	SG309T	5.0	4.0%	4.0%	35	1.5	1.0	500m	100k†	20m	18	50m§	495m	50mΔ	75	5E	F077	TO5	
70	uA7805CDA	5.0	200m§	200m§	35	2.0	1.0	17m†	1.1m†	18	100m§	1.5	100mΔ	62	0E	F091c	TO3		
71	uA7805CU	5.0	200m§	200m§	35	2.0	1.0	17m†	1.1m†	18	100m§	1.5	100mΔ	62	0E	F091c	Y220b		
72	uA7805DA	5.0	200m§	200m§	35	2.0	1.0	17m†	1.1m†	16	50m§	1.5	50mΔ	68	5C	F091c	TO3		
73	TA78005AP	5.0	5%	5%	35	2.0	1.5	1.0	1.1m†	18	100m§	500m	50mΔ	62	3E	F091e	Y220ab		
74	78M05CU	5.0	4.0%	4.0%	35	2.0	2.0	500m	1.0m†	18	100m§	495m	100mΔ	62	0E	F091e	Y220b		
75	7805CU	5.0	4.0%	4.0%	35	2.0	2.0	500m	1.0m†	18	100m§	495m	100mΔ	62	0C	F091e	Y220b		
76	LM109H	5.0	6.0%	6.															

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	1 | NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		2 | MAX INPUT LINE VOLT |V|	MIN OUT/IN DIFF. (ΔV)	3 | MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG		MAX LOAD REG		MAX TRANSIENT RECOVERY		T E O P M D E	C K T.	DRAWINGS OUT-LINE Δ=MO
			LOW (V)	HIGH (V)							VOLT. CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	LOAD CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	@LINE CHG. (S)			
1	LM140K5.0	5.0	4.0 %	4.0 %	35		20 *	1.0	8.0m†	600u†	4.0	25m§	995m	50mA	68			5C F199	CN48a
2	LM209K	5.0	6.0 %	6.0 %	35		20 *	1.5			18	50m§	1.4	100mA			5F F077	CN48a	
3	LM309K	5.0	4.0 %	4.0 %	35		20 *	1.5			18	50m§	1.4	100mA			5C F077	CN48a	
4	LM340AK5.0	5.0	2.0 %	2.0 %	35		20 *	1.0	8.0m†	600u†	4.0	12m§	995m	25mA	68		07 F199	CN48a	
5	LM340K5.0	5.0	4.0 %	4.0 %	35		20 *	1.0	8.0m†	600u†	4.0	25m§	995m	50mA	62		07 F199	CN48a	
6	LM340KC5.0	5.0	4.0 %	4.0 %	35		20 *	1.0	8.0m†	600u†	4.0	25m§	995m	50mA	62		07 F199	CN79	
7	uPC7805H	5.0	200m§	200m§	35	2.0	20	1.5	17m†	1.1m†	18	100m§	1.5	100mA	62	1.0u†	10u†	28 F091b	Y220b
8	uPC14305H	5.0	4.0 %	4.0 %	35	2.0	20	1.0	15m†	1.1m†§	18	100m§	1.5	100mA	62	1.0u†	10u†	28 F091b	Y220b
9#	L2005CT	5.0			37		*		15m†	40m†			2.0	1.0				2F F222	Y220
10#	L2005CV	5.0			37		*		15m†	40m†			2.0	1.0				2F F222	Y220
11#	L2005T	5.0			37		*		15m†	40m†			2.0	1.0				2F F222	Y220
12#	L194-5H	5.0			40		*			10mA			498m	.60				2F F223	MT14
13#	L194-5V	5.0			40		*			10mA			498m	.60				2F F223	MT15
14	LAS15A05	5.0			45	30 Δ	15	3.5		.03 Δ	10	2.0	1.4	.60	58			5F F182	TO3
15	RM4194DC	5.0 §	50m	42	45	3.0	90m	150m		15m§	950m	100m	99m	2.0m*	70			5F F096a	DL14av
16	RM4194TK	5.0 §	50m	42	45	3.0	3.0	250m		15m§	950m	100m	199m	2.0m*	70			5F F096a	CN30
17	78MHV05CDB	5.0	200m§	200m§	60	2.0	4.0 *	500m		1.0m†	18	100m§	500m	100mA	62	300n	7.0u	08 F207	Y220b
18	SA78MHV05CDB	5.0	200m§	200m§	60	2.0	4.0 *	500m		1.0m†	18	100m§	500m	100mA	62	300n	7.0u	48 F207	Y220b
19	78MHV05CU	5.0	200m§	200m§	60	2.0	5.0 *	500m		1.0m†	18	100m§	500m	100mA	62	300n	7.0u	08 F207	Y220b
20	78MHV05DB	5.0	200m§	200m§	60	2.0	5.0 *	500m		1.0m†	18	50m§	500m	50mA	68	300n	7.0u	5C F207	Y220b
21	SA78MHV05CU	5.0	200m§	200m§	60	2.0	5.0 *	500m		1.0m†	18	100m§	500m	100mA	62	300n	7.0u	48 F207	Y220b
22	78HV05CDA	5.0	200m§	200m§	60	2.0	15 *	1.0	17m†	1.1m†	18	100m§	1.5	100mA	62	300n	7.0u	08 F207	Y220b
23	78HV05CU	5.0	200m§	200m§	60	2.0	15 *	1.0	17m†	1.1m†	18	100m§	1.5	100mA	62	300n	7.0u	08 F207	Y220b
24	78HV05DA	5.0	200m§	200m§	60	2.0	15 *	1.0	17m†	1.1m†	18	50m§	1.5	50mA	68	300n	7.0u	5C F207	Y220b
25	SA78HV05CDA	5.0	200m§	200m§	60	2.0	15 *	1.0	17m†	1.1m†	18	100m§	1.5	100mA	62	300n	7.0u	48 F207	Y220b
26	SA78HV05CU	5.0	200m§	200m§	60	2.0	15 *	1.0	17m†	1.1m†	18	100m§	1.5	100mA	62	300n	7.0u	48 F207	Y220b
27	LM79M05CH	5.0			-25		*			400u†	18	50m§	495m	100mA	54			0C F187	Y202
28	LM79M05CP	5.0			-25		*			400u†	18	50m§	495m	100mA	54			0C F187	Y202
29	LM79M05CPTB	5.0			-25		*			400u†	18	50m§	495m	100mA	54			0C F187	Y202
30	LM320MP5.0TB	5.0			-25		7.5	500m		40m†	25	40m§	5.0m	100mA	54			0C F187	TO202
31	UC7905ACK	5.0			-35		*			-18	15m§	1.4	50mA	54				5F	TO3
32	UC7905ACT	5.0			-35		1.5			-18	25m§	1.4	100mA	54				0C	Y220
33	UC7905AK	5.0			-35		*			-18	15m§	1.4	50mA	54				5F	TO3
34	UC7905CK	5.0			-35		1.5			-18	50m§	1.4	50mA	54				5F	TO3
35	UC7905CT	5.0			-35		1.5			-18	50m§	1.4	100mA	54				0C	Y220
36	UC7905K	5.0			-35		1.5			-18	50m§	1.4	50mA	54				5F	TO3
37	LM320MLP5.0TB	5.0			-35		7.5 *	250m		18	50m§	249m	50mA	54				0F	F187
38	LM145K5.2	5.2	1.9 %	1.9 %	20	2.3	15m*	3.0	18m†	12	15m§	2.9	75mA	30				5F	G080
39	LM345K5.2	5.2	3.8 %	3.8 %	20	2.3	15m*	3.0	18m†	12	25m§	2.9	100mA	30				0C	G080
40	SG120-5.2K	5.2	2.0 %	2.0 %	25	1.0		1.5	30m†	500u†	17	25m§	1.4m	60mA	54			5C	F187
41	SG120-5.2R	5.2	2.0 %	2.0 %	25	1.0		1.5	30m†	500u†	17	25m§	1.4	60mA	54			5F	F187
42	SG120-5.2T	5.2	2.0 %	2.0 %	25	1.0		1.5	30m†	500u†	17	25m§	495m	50mA	54			5C	F187
43	SG220-5.2K	5.2	2.0 %	2.0 %	25	1.0		1.5	30m†	500u†	17	25m§	1.4m	60mA	54			2F	F187
44	SG220-5.2R	5.2	2.0 %	2.0 %	25	1.0		1.5	30m†	500u†	17	25m§	1.4	60mA	54			2F	F187
45	SG220-5.2T	5.2	2.0 %	2.0 %	25	1.0		1.5	30m†	500u†	17	25m§	495m	50mA	54			2F	F187
46	SG320-5.2K	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	40m§	1.4m	60mA	54			0C	F187
47	3G320-5.2P	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	40m§	1.4	100mA	54			0C	F187
48	SG320-5.2T	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	40m§	1.4	100mA	54			0C	F187
49	SG320-5.2T	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	50m§	495m	50mA	54			0C	F187
50	SG7905.2CK	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	100m§	1.4	100mA	54			0C	F187
51	SG7905.2CP	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	100m§	1.4	100mA	54			0C	F187
52	SG7905.2CR	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	100m§	1.4	100mA	54			0C	F187
53	SG7905.2CT	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	100m§	495m	50mA	54			0C	F187
54	SG7905.2K	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	50m§	1.4	60mA	54			5F	F187
55	SG7905.2R	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	50m§	1.4	60mA	54			5F	F187
56	SG7905.2T	5.2	3.8 %	3.8 %	25	1.0		1.5	30m†	500u†	17	50m§	495m	30mA	54			5F	F187
57	SG7905.2ACT	5.2			25	25	1.0	.50	50m†	17	40m§	495m	50mA	60 †				0C	F187
58	SG7905.2AT	5.2			25	25	1.0	.50	50m†	17	25m§	495m	50mA	60 †				5F	F187
59	SG220-5.2P	5.2	100m§	100m§	25	2.0	2.0 *	1.5	500u†	17	25m§	1.5	60mA	54				2F	F187
60	SG7905.2ACP	5.2			25	25	2.0	1.0	50m†	17	40m§	.50	50mA	60 †				0C	F187
61	SG7905.2P	5.2	200m§	200m§	25	2.0	2.0 *	2.5	500u†	17	50m§	1.5	60mA	54				5F	F187
62#	TDB2905ACM	5.2	2.0 %	2.0 %	25	25	2.0	200m		18	50m§	495m	50mA	54				07	TO39
63#	TDC2905ACM	5.2	2.0 %	2.0 %	25	25	2.0	200m		18	25m§	495m	50mA	54				5C	TO39
64	SG7905.2ACR	5.2			25	25	3.0	1.5	.50m†	17	40m§	.50	50mA	60 †				0C	F187
65	SG7905.2AR	5.2			25	25	3.0	1.5	.50m†	17	25m§	.50	30mA	60 †				5F	F187
66	SG7905.2ACK	5.2			25	25	4.3	1.5	.50m†	17	40m§	.50	50mA	60 †				0C	F187
67	SG7905.2AK	5.2			25	25	4.3	1.5	.50m†	17	25m§	.50	30mA	60 †				5F	F187
68#	TDB2905AKM	5.2	2.0 %	2.0 %	25	25	2.0	1.0		18	50m§	1.5	100mA	68 †				07	TO3
69#	TDB2905ASP	5.2	2.0 %	2.0 %	25	25	2.0	1.0		18	50m§	1.5	100mA	68 †				07	Y220a
70#	TDC2905AKM	5.2	2.0 %	2.0 %	25	25	2.0	1.0		18	25m§	1.5	75mA	68 †				5C	TO3
71#	ML78P05A	5.2			30	1.7	650m			13	150m§	99m	60mA	41				0C	F226
72	79M05.2CDB	5.2	200m§	200m§	35	1.1		500m		400u†	18	50m§	495m	100mA	50			08	F163b
73	79M05.2CU	5.2	200m§	200m§	35	1.1		500m		400u†	18	50m§	495m	100mA	50			08	F140
74	79M05.2DB	5.2	200m§	200m§	35	1.1		500m		400u†	18	50m§	495m	100mA	50			5C	F163b
75	SFC2805LEC	5.2			35	2.0		0.5		100m§	18	100m§	195m	50mA	70 †			07	F233
76	7905.2CDA	5.2	200m§	200m§	35	1.1	1.0 *		17m†	400u†	18	105m§	1.5	105mA	54			08	F162

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		2 | MAX INPUT LINE VOLT | MIN OUT/IN DIFF. (ΔV)	3 | MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE VOLT. CHG. (ΔV)	MAX. OUTPUT VOLT. CHG. (%)	MAX. LOAD REG.			MAX. TRANSIENT RECOVERY		E O P E	T C	DRAWINGS
			LOW	HIGH								LOAD CUR. (ΔA)	OUT VOLT. CHG. (%)	MIN RIPPL. REJ. (dB)	@LINE CHG. (s)	@LOAD CHG. (s)				M	D	CKT.	OUT-LINE Δ=MO
1	uA78M06MLA	6.0	4.1	4.1	25	600m	500m			17	60m§	495m	60mΔ	59			5C	F161b	CN40
2	uA79M06CLA	6.0	4.1	4.1	25	600m	500m			17	60m§	495m	120mΔ	50			0C	F163b	CN40
3	uA79M06MLA	6.0	4.1	4.1	25	600m	500m			17	60m§	495m	120mΔ	50			5C	F163b	CN40
4	uA78M06CKD	6.0	4.1	4.1	25	1.5	500m			17	100m§	495m	120mΔ	59			0C	F161a	MT7
5	uA79M06CKD	6.0	4.1	4.1	25	1.5	500m			17	60m§	495m	120mΔ	50			0C	F163a	MT7
6	uA78M06CKC	6.0	4.1	4.1	25	2.0	500m			17	100m§	495m	120mΔ	59			0C	F161	Y220b
7	uA79M06CKC	6.0	4.1	4.1	25	2.0	500m			17	60m§	495m	120mΔ	50			0C	F163	Y220b
8	uA7806CKC	6.0	4.1	4.1	25	2.0	1.5	19m†	800u†	17	120m§	1.4	120mΔ	59			0C	F165a	Y220b
9	uA7906CKC	6.0	4.1	4.1	25	2.0	1.5	19m†	400u†	17	120m§	1.4	120mΔ	54			0C	F162a	Y220b
10	uA7806CKA	6.0	4.1	4.1	25	3.5	1.5	19m†	800u†	17	120m§	1.4	120mΔ	59			0C	F091	TO3
11	uA7806MKA	6.0	4.1	4.1	25	3.5	1.5	19m†	800u†	17	60m§	1.4	60mΔ	65			5C	F091	TO3
12	uA7906CKA	6.0	4.1	4.1	25	3.5	1.5		400u†	17	120m§	1.4	120mΔ	54			0C	F162	TO3
13	uA7906MKA	6.0	4.1	4.1	25	3.5	1.5		400u†	17	60m§	1.4	60mΔ	54			5C	F162	TO3
14	NE5552T	6.0	250m§	250m§	32	6.0	650m	300m	1.0m†	10	300m§	199m	100mΔ	50			0C	F200a	TO99
15	SE5552T	6.0	250m§	250m§	32	6.0	650m	300m	1.0m†	10	150m§	199m	50mΔ	50			5F	F200a	TO99
16	NE5552N	6.0	250m§	250m§	32	6.0	1.1	300m	1.0m†	10	300m§	199m	100mΔ	50			0C	F200	DL14aw
17	SE552N	6.0	250m§	250m§	32	6.0	1.1	300m	1.0m†	10	150m§	199m	50mΔ	50			5F	F200	DL14aw
18	79M06CDB	6.0	250m§	250m§	35	1.1	500m	400u†	18	60m§	495m	120mΔ	50			08	F163b	CN40	
19	79M06CU	6.0	250m§	250m§	35	1.1	500m	400u†	18	60m§	495m	120mΔ	50			08	F163	Y220b	
20	79M06DB	6.0	250m§	250m§	35	1.1	500m	400u†	18	60m§	495m	120mΔ	50			5C	F163b	CN40	
21#	HA178M06P	6.0	4.1	4.1	35	35	500m	500u†	17	100m§						28	F165a	Y220b	
22	LM140K-6.0	6.0	*	*	35	2.0		1.9	35m†	17	60m§	1.5	60mΔ	65			07		CN48
23	LM340K-6.0	6.0	*	*	35	2.0		1.9	35m†	17	60m§	1.5	60mΔ	59			5C		CN48
24	MC78T06CK	6.0			35			*	*	26	30m§	2.5m	30mΔ	63			0C	F241	TO3
25	MC78T06CT	6.0			35			*	*	26	30m§	2.5m	30mΔ	63			0C	F241	Y220
26	MC78T06K	6.0			35			*	*	26	30m§	2.5m	30mΔ	63			5C	F241	TO3
27	MC7806ACT	6.0	2%	2%	35	2.0		20	17 †	16	60m§	1.5	100mΔ	65 †			0C	F091f	Y220b
28	MC7806BK	6.0	4%	4%	35	2.0		0.2	17m†	4	50m§	3.5m	50mΔ	68			4E	F091g	CN48
29	MC7806BT	6.0	4%	4%	35	2.0		0.2	17m†	4	50m§	3.5m	50mΔ	68			4E	F091g	Y220
30	MC7806CK	6.0	4%	4%	35	2.0		1.2	17 †	17	60m§	1.5	100mΔ	65			5E	F091g	CN48
31#	SFC2806EC	6.0	5.0	5.0	35	2.0				17	120m§	1.5	120mΔ	65 †			07	F233	Y220b
32#	SFC2806RC	6.0	5.0	5.0	35	2.0				17	120m§	1.5	120mΔ	65 †			07	F233	TO3
33#	TDB7806	6.0	4.1	4.1	35					17	120m§	1.4	120mΔ	59			08	F183	TO3
34#	DD1606S	6.0	5.7	6.2	35		500m			17	100m§	495m	120mΔ	59			0C	F091	MT6
35	uA78M06HC	6.0	4.1	4.1	35		500m			17	100m§	495m	120mΔ	59			0E	F165b	TO39
36	uA78M06HM	6.0	4.1	4.1	35		500m			17	60m§	495m	60mΔ	59			5E	F165a	TO39
37	uA78M06UC	6.0	4.1	4.1	35		500m			17	100m§	495m	120mΔ	59			0E	F165a	Y220b
38	uA78M06UV	6.0	5.7	6.2	35	1.1	39m			17	1.6mΔ	495m	1.9mΔ	59			48	F165a	MT24a
39	uA78M06U1C	6.0	5.7	6.2	35	1.1	39m			17	1.6mΔ	495m	1.9mΔ	59			0F	F165a	MT24a
40	uA7806KC	6.0	4.1	4.1	35		2.2		19m†	17	120m§	1.4	120mΔ	59			0C	F091	TO3
41	uA7806KM	6.0	4.1	4.1	35		2.2		19m†	17	60m§	1.4	60mΔ	65			5F	F091	TO3
42	uA7806UC	6.0	4.1	4.1	35		2.2		19m†	17	120m§	1.4	120mΔ	59			0C	F091	MT5
43	uA7806UV	6.0	4.1	4.1	35		2.2		19m†	17	120m§	1.5	100mΔ	59			28	F091	MT5
44	MC7806ACK	6.0	2.0	2.0	35		15m*		17m†	16	60m§	3.5m	100mΔ	65			0F	F091	TO3
45	MC7806AK	6.0	2.0	2.0	35		15m*		17m†	16	11m§	3.5m	50mΔ	65			5F	F091	TO3
46	MC78M06CG	6.0	4.1	4.1	35	2.0	800m	500m		17	100m§	495m	120mΔ	80 †			0C	F091d	TO39
47#	TA78L006AP	6.0	4%	4%	35	1.7	0.8	150m									37		MP23
48#	TA78L006P	6.0	6.5	6.5	35	1.7	0.8	150m									37		MP23
49#	78M06CDB	6.0	4.1	4.1	35	2.0	650m	500m		13	200m§	99m	70mΔ	38			0E	F091d	TO39
50#	78M06DB	6.0	4.1	4.1	35	2.0	950m	500m		17	60m§	495m	60mΔ	59			5E	F091d	TO39
51	7906CDA	6.0	250m§	250m§	35	1.1	1.0*		19m†	17	120m§	1.5	120mΔ	54			08	F162	TO3
52	7906CU	6.0	250m§	250m§	35	1.1	1.0*		19m†	17	120m§	1.5	120mΔ	54			08	F162a	Y220b
53	7906DA	6.0	250m§	250m§	35	1.1	1.0*		19m†	17	60m§	1.5	60mΔ	54			5C	F162	TO3
54	SA7806CDA	6.0	250m§	250m§	35	2.0	1.0*		19m†	17	120m§	1.5	120mΔ	59			48	F091c	TO3
55	SA7806CU	6.0	250m§	250m§	35	2.0	1.0*		19m†	17	120m§	1.5	120mΔ	59			48	F091c	Y220b
56	uA7806CDA	6.0	250m§	250m§	35	2.0	1.0*		19m†	17	120m§	1.5	120mΔ	59			08	F091c	TO3
57	uA7806CU	6.0	250m§	250m§	35	2.0	1.0*		19m†	17	120m§	1.5	120mΔ	59			08	F091c	Y220b
58	uA7806DA	6.0	250m§	250m§	35	2.0	1.0*		19m†	17	60m§	1.5	60mΔ	65			5C	F091c	TO3
59#	TA78006AP	6.0	5%	5%	35	2.0	1.5	1.0		17	60m§	1.5	60mΔ	65			37	F091e	Y220ab
60#	78M06CU	6.0	4.1	4.1	35	2.0	2.0	500m		17	100m§	495m	120mΔ	59			0E	F091e	Y220b
61#	7806CU	6.0	4.1	4.1	35	2.0	2.0	1.0		17	120m§	500m	60mΔ	59			0C	F091e	Y220b
62	MC78M06CT	6.0	4.1	4.1	35	2.0	2.0	500m		17	100m§	495m	120mΔ	80 †			0C	F091f	Y220b
63	MC7906CT	6.0	4.0	4.0	35	2.0	2.0	1.5		17	120m§	1.5	120mΔ	65 †			0C	F116a	Y220b
64	SA78M06CU	6.0	250m§	250m§	35	2.0	2.0*		500u†	17	100m§	495m	120mΔ	59			4C	F091e	Y220b
65	SG140-06P	6.0	250m§	250m§	35	2.0	2.0*	1.5		17	60m§	1.5	60mΔ	75 †			5F	F180c	Y220b
66	MC7806CK	6.0	4.1	4.1	35	2.0	2.5	1.5	35m†	17	120m§	1.5	120mΔ	65 †			0C	F091g	CN48
67	MC7806CT	6.0	4.1	4.1	35	2.0	2.5	1.5		17	120m§	1.5	120mΔ	65 †			0C	F091f	Y220b
68	MC7906CK	6.0	4.0	4.0	35	2.0	2.5	1.5		17	120m§	1.5	120mΔ	65 †			0C	F116	TO3
69#	7806CDA	6.0	4.1	4.1	35	2.0	3.5	1.0		17	120m§	500m	60mΔ	59			0C	F091g	TO3
70#	7806DA	6.0	4.1	4.1	35	2.0	3.5	1.0		17	60m§	500m	30mΔ	65			5E	F091g	TO3
71#	HA17806P	6.0	5.7	6.2	35	2.0	15	550m	19 †	4.0	60m§	500m	60mΔ	59			5E	F215	TO220
72	LAS1406	6.0	5.0	5.0	35	2.5	15	1.5		10	2.0	1.5	60mΔ	58			5E	F168	CN48b
73	LAS1506	6.0	5.0	5.0	35	2.4	15	1.5		15	2.0	1.4	60mΔ	58			5E	F168	CN48b
74	LAS1806	6.0	5.0	5.0	35	2.1	15	1.5		15	2.0	1.4	60mΔ	59			5E	F169	CN48b
75	LM340-6DA	6.0	4.2	4.2	35	8.0	*	1.5		17	120m§	1.4	120mΔ	57 †			07	F110	TO3
76	LM340-6U	6.0	4.2	4.2	35	8.0	*	1.5		17	120m§	1.4	120mΔ	57 †			07	F110	Y220b
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8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4	TYPE No.	1	ADJUSTABLE OUTPUT VOLT. RANGE		2	MIN IN/OUT DIFF. (ΔV)	3	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE REG		MAX. LOAD REG		MAX. TRANSIENT RECOVERY		T C O M P E	DRAWINGS	
				LOW (V)	HIGH (V)							MAX. LINE CHG. (ΔV)	MAX. LINE CHG. (%)	MAX. LOAD CHG. (ΔA)	MAX. LOAD CHG. (%)	MIN RIPPL. REJ. (dB)	@LINE @CHG. (s)			@LOAD @CHG. (s)
1#		L2075CV	7.5																	
2#		L2075T	7.5																	
3		uA78L08ACJG	8.0	5.0 %	5.0 %	23		1.1	100m	15m†	60m†	12	175m§	99m	80mΔ	37		F222	Y220	
4		uA78L08CJG	8.0	10 %	10 %	23		1.1	100m		60m†	12	200m§	99m	80mΔ	36		F222	TO3	
5#		L78M08	8.0	7.7	8.3	23	2.0	1.2	500m			9.0	2.0m†	195m	80mΔ	56		OC	F164	
6#		L78N08	8.0	7.7	8.3	23	2.0	1.2	500m			9.0	2.0m†	195m	80mΔ	56		OC	F164	
7#		HA178M08P	8.0	3.8 %	3.8 %	25			500m			14	100m§					28	F161	
8		LM340-8KC	8.0	3.8 %	3.8 %	25			1.5			14	160m§					5F	F187	
9		SG120-8K	8.0	2.5 %	2.5 %	25	1.0	*	1.5		600u†	14	25m§	1.4	80mΔ	54		5F	F187	
10		SG120-8R	8.0	2.5 %	2.5 %	25	1.0	*	1.5		600u†	14	25m§	1.4	80mΔ	54		5F	F187	
11		SG120-8T	8.0	2.5 %	2.5 %	25	1.0	*	500m		600u†	14	25m§	495m	25mΔ	54		5F	F187	
12		SG140-08K	8.0	3.7 %	3.7 %	25	10 *		1.5	16m†	600u†	14	80m§	1.4	80mΔ	72 †		5F	F091	
13		SG140-08R	8.0	3.7 %	3.7 %	25	10 *		1.5		600u†	14	80m§	1.4	80mΔ	72 †		5F	F091	
14		SG140-08T	8.0	3.7 %	3.7 %	25	10 *		500m	16m†	600u†	14	80m§	495m	80mΔ	72 †		5F	F091	
15		SG220-8K	8.0	2.5 %	2.5 %	25	1.0	*	1.5		600u†	14	25m§	1.4	80mΔ	54		2F	F187	
16		SG220-8R	8.0	2.5 %	2.5 %	25	1.0	*	1.5		600u†	14	25m§	1.4	80mΔ	54		2F	F187	
17		SG220-8T	8.0	2.5 %	2.5 %	25	1.0	*	500m		600u†	14	25m§	495m	25mΔ	54		2F	F187	
18		SG320-8K	8.0	3.8 %	3.8 %	25	1.0	*	1.5		600u†	14	40m§	1.4	100mΔ	54		OC	F187	
19		SG320-8P	8.0	3.8 %	3.8 %	25	1.0	*	1.5		600u†	14	40m§	1.4	100mΔ	54		OC	F187	
20		SG320-8R	8.0	3.8 %	3.8 %	25	1.0	*	1.5		600u†	14	40m§	1.4	100mΔ	54		OC	F187	
21		SG320-8T	8.0	3.8 %	3.8 %	25	1.0	*	500m		600u†	14	40m§	495m	40mΔ	54		OC	F187	
22		SG340-08K	8.0	3.7 %	3.7 %	25	10 *		1.5	16m†	600u†	14	160m§	1.4	160mΔ	72 †		OC	F091	
23		SG340-08P	8.0	3.7 %	3.7 %	25	10 *		1.5		600u†	14	160m§	1.4	160mΔ	72 †		OC	F091	
24		SG340-08R	8.0	3.7 %	3.7 %	25	10 *		1.5		600u†	14	160m§	1.4	160mΔ	72 †		OC	F091	
25		SG340-08T	8.0	3.7 %	3.7 %	25	10 *		500m	16m†	600u†	14	160m§	495m	80mΔ	72 †		OC	F091	
26		SG7808ACK	8.0	2.0 %	2.0 %	25	10 *		1.5		600u	15	80m§	1.5	80mΔ	72 †		OC	F180b	
27		SG7808ACP	8.0	1.8 %	1.8 %	25	10 *		1.5		600u	15	80m§	1.5	80mΔ	72 †		OC	F180c	
28		SG7808ACR	8.0	2.0 %	2.0 %	25	10 *		1.5		600u	15	80m§	1.5	80mΔ	72 †		OC	F180a	
29		SG7808ACT	8.0	2.0 %	2.0 %	25	10 *		500m		600u	15	80m§	495m	40mΔ	72 †		OC	F180a	
30		SG7808AK	8.0	2.0 %	2.0 %	25	10 *		1.5		600u	15	40m§	1.5	70mΔ	72 †		5E	F180b	
31		SG7808AR	8.0	2.0 %	2.0 %	25	10 *		1.5		600u	15	40m§	1.5	70mΔ	72 †		5E	F180a	
32		SG7808AT	8.0	2.0 %	2.0 %	25	10 *		500m		600u	15	40m§	495m	35mΔ	72 †		5E	F180a	
33		SG7808CK	8.0	3.7 %	3.7 %	25	10 *		1.5	16m†	600u†	14	160m§	1.4	160mΔ	72 †		OC	F091	
34		SG7808CP	8.0	3.7 %	3.7 %	25	10 *		1.5		600u†	14	160m§	1.4	160mΔ	72 †		OC	F091	
35		SG7808CR	8.0	3.7 %	3.7 %	25	10 *		1.5		600u†	14	160m§	1.4	160mΔ	72 †		OC	F091	
36		SG7808CT	8.0	3.7 %	3.7 %	25	10 *		500m	16m†	600u†	14	160m§	495m	80mΔ	72 †		OC	F091	
37		SG7808K	8.0	3.7 %	3.7 %	25	10 *		1.5	16m†	600u†	14	80m§	1.4	80mΔ	72 †		5E	F091	
38		SG7808R	8.0	3.7 %	3.7 %	25	10 *		1.5		600u†	14	80m§	1.4	80mΔ	72 †		5E	F091	
39		SG7808T	8.0	3.7 %	3.7 %	25	10 *		500m	16m†	600u†	14	80m§	495m	80mΔ	72 †		5E	F091	
40		SG7908CK	8.0	3.8 %	3.8 %	25	1.0	*	1.5		600u†	14	160m§	1.4	160mΔ	54		OC	F187	
41		SG7908CP	8.0	3.8 %	3.8 %	25	1.0	*	1.5		600u†	14	160m§	1.4	160mΔ	54		OC	F187	
42		SG7908CR	8.0	3.8 %	3.8 %	25	1.0	*	1.5		600u†	14	160m§	1.4	160mΔ	54		OC	F187	
43		SG7908CT	8.0	3.8 %	3.8 %	25	1.0	*	500m		600u†	14	160m§	495m	80mΔ	54		OC	F187	
44		SG7908K	8.0	3.8 %	3.8 %	25	1.0	*	1.5		600u†	14	80m§	1.4	80mΔ	54		5F	F187	
45		SG7908R	8.0	3.8 %	3.8 %	25	1.0	*	1.5		600u†	14	80m§	1.4	80mΔ	54		5F	F187	
46		SG7908T	8.0	3.8 %	3.8 %	25	1.0	*	500m		600u†	14	80m§	495m	40mΔ	54		5F	F187	
47		uA78M08CLA	8.0	3.7 %	3.7 %	25		600m	500m			14	100m§	495m	160mΔ	56		OC	F161b	
48		uA78M08MLA	8.0	3.7 %	3.7 %	25		600m	500m			14	80m§	495m	80mΔ	56		5C	F161b	
49		uA79M08CLA	8.0	3.7 %	3.7 %	25		600m	500m			14	80m§	495m	160mΔ	50		OC	F163b	
50		uA79M08MLA	8.0	3.7 %	3.7 %	25		600m	500m			14	80m§	495m	160mΔ	50		5C	F163b	
51		uA78M08CKD	8.0	3.7 %	3.7 %	25		1.5	500m			14	100m§	495m	160mΔ	56		OC	F161a	
52		uA79M08CKD	8.0	3.7 %	3.7 %	25		1.5	500m			14	80m§	495m	160mΔ	50		OC	F163a	
53		SG220-8P	8.0	200m§	200m§	25	2.0	*	1.5		600u†	15	25m§	1.5	80mΔ	54		2F	F187	
54		uA78M08CKC	8.0	3.7 %	3.7 %	25		2.0	500m			14	100m§	495m	160mΔ	56		OC	F161	
55		uA79M08CKC	8.0	3.7 %	3.7 %	25		2.0	500m			14	80m§	495m	160mΔ	50		OC	F163	
56		uA7808CKC	8.0	3.7 %	3.7 %	25		2.0	1.5	16m†	600u†	14	160m§	1.4	160mΔ	56		OC	F165a	
57		uA7908CKC	8.0	3.7 %	3.7 %	25		2.0	1.5		600u†	14	160m§	1.4	160mΔ	54		OC	F162a	
58		uA7808CKA	8.0	3.7 %	3.7 %	25		3.5	1.5	16m†	800u†	14	160m§	1.4	160mΔ	56		OC	F091	
59		uA7808MKA	8.0	3.7 %	3.7 %	25		3.5	1.5	16m†	800u†	14	80m§	1.4	80mΔ	62		5C	F091	
60		uA7908CKA	8.0	3.7 %	3.7 %	25		3.5	1.5		600u†	14	160m§	1.4	160mΔ	54		OC	F162	
61		uA7908MKA	8.0	3.7 %	3.7 %	25		3.5	1.5		600u†	14	80m§	1.4	80mΔ	54		5C	F162	
62		LM2930-8KC(A)	8.0			26		*	*		300m	17	100m§	145m	50mΔ	52 †		48	F242	
63		LM2930T8.0	8.0			26		*	*		300m	17	50m§	145m	50mΔ	52 †		48	F242	
64		MC78L08ACP	8.0	5.0 %	5.0 %	30	1.7	700m	100m			12	175m§	99m	80mΔ	37		OC	F144a	
65		MC78L08CP	8.0	10 %	10 %	30	1.7	700m	100m			12	200m§	99m	80mΔ	36		OC	F144a	
66		uA78L08ACJG	8.0	5.0 %	5.0 %	30	1.7	825m	100m			12	175m§	99m	90mΔ	37		OF	F164	
67		uA78L08CJG	8.0	10 %	10 %	30	1.7	825m	100m			12	225m§	99m	90mΔ	36		OF	F164	
68		MC78L08ACG	8.0	5.0 %	5.0 %	30	1.7	850m	100m			12	175m§	99m	80mΔ	37		OC	F144	
69		MC78L08CG	8.0	10 %	10 %	30	1.7	850m	100m			12	200m§	99m	80mΔ	36		OC	F144	
70		LAS1608	8.0	5.0 %	5.0 %	30	2.6	20	2.0		20mΔ	9.0	2.0	2.0	600m	60		5F	F182	
71		79M08CDB	8.0	300m§	300m§	35	1.1		500m		600u†	14	80m§	495m	160mΔ	50		5E	F163b	
72		79M08CU	8.0	300m§	300m§	35	1.1		500m		600u†	14	80m§	495m	160mΔ	50		5E	F163	
73		79M08DB	8.0	300m§	300m§	35	1.1		500m		600u†	14	80m§	495m	160mΔ	50		5E	F163b	
74		MC78T08CK	8.0			35		*	*		1.6m	24	35m§	2.5m	30mΔ	61		OC	F241	
75		MC78T08CT	8.0			35		*	*		1.6m	24	35m§	2.5m	30mΔ	61		OC	F241	
76		MC78T08K	8.0			35		*	*		1.6m	24	35m§	2.5m	30mΔ	61		5C	F241	
77		MC7808BK	8.0	4 %	4 %	35	2.0	*	0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68		4E	F091g	
78		MC7808BT	8.0	4 %	4 %	35	2.0	*	0.2	17m†	1.1m†									

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		MAX INPUT LINE VOLT (V)	MIN OUT/IN (ΔV)	MAX POWER DISS. @ 25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG		MAX LOAD REG		MAX TRANSIENT RECOVERY		T O C M D	DRAWINGS	
			LOW (V)	HIGH (V)							LINE VOLT. CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	OUT VOLT. CHG. (%)	MIN RIPPLE REJ. (dB)	@LINE CHG. (S)	@LOAD CHG. (S)			
1	SA7808CDA	8.0	300m\$	300m\$	35	2.0	1.0 *	16m†	800u†	14	160m\$	1.5	160mΔ	56	48	F091c	TO3		
2	SA7808CU	8.0	300m\$	300m\$	35	2.0	1.0 *	16m†	800u†	14	160m\$	1.5	160mΔ	56	48	F091c	Y220b		
3	SG7908ACT	8.0	300m\$	300m\$	35	30 Δ	1.0	.50	60m*†	15	40m\$	495m	40mΔ	60	40	F187	TO39		
4	SG7908AT	8.0	300m\$	300m\$	35	30 Δ	1.0	.50	60m*†	15	25m\$	495m	25mΔ	60	40	F187	TO39		
5	uA7808CDA	8.0	300m\$	300m\$	35	2.0	1.0 *	16m†	800u†	14	160m\$	1.5	160mΔ	56	48	F091c	TO3		
6	uA7808CU	8.0	300m\$	300m\$	35	2.0	1.0 *	16m†	800u†	14	160m\$	1.5	160mΔ	56	48	F091c	Y220b		
7	uA7808DA	8.0	300m\$	300m\$	35	2.0	1.0 *	16m†	800u†	14	80m\$	1.5	80mΔ	62	50	F091c	TO3		
8	TA7808AP	8	5 %	5 %	35	2.0	1.5								37	F091e	Y220ab		
9	78M08CU	8.0	3.7 %	3.7 %	35	2.0	2.0	500m	500u†	14	100m\$	495m	160mΔ	56	30	F091e	Y220b		
10	7808CU	8.0	3.7 %	3.7 %	35	2.0	2.0	1.0	800u†	14	160m\$	500m	80mΔ	56	30	F091e	Y220b		
11	MC78M08CT	8.0	3.7 %	3.7 %	35	2.0	2.0	500m	.50m†	14	100m\$	495m	160mΔ	80	40	F091f	Y220b		
12	MC7908CT	8.0	4.0 %	4.0 %	35	2.0	2.0	1.5	1.0m†	14	160m\$	1.5	160mΔ	62	40	F116a	Y220b		
13	SA78M08CU	8.0	300m\$	300m\$	35	2.0	2.0 *		500u†	14	100m\$	495m	160mΔ	56	40	F091e	Y220b		
14	SG140-08P	8.0	300m\$	300m\$	35	2.0	2.0 *	1.5	600u†	14	80m\$	1.5	80mΔ	72	40	F180c	Y220b		
15	SG7908ACP	8.0	300m\$	300m\$	35	30 Δ	2.0	1.5	60m*†	15	40m\$	50	50mΔ	60	40	F187	Y220		
16	SG7908P	8.0	300m\$	300m\$	35	2.0	2.0 *	2.5	600u†	14	80m\$	1.5	80mΔ	54	30	F187	Y220b		
17	uPC78M08H	8.0	3.7 %	3.7 %	35	2.0	2.0	500m	1.0m†	14	100m\$	495m	160mΔ	56	28	F165a	Y220b		
18	MC7908CK	8.0	3.7 %	3.7 %	35	2.0	2.5	1.5	1.0m†	15	160m\$	1.5	160mΔ	62	40	F091g	CN48		
19	MC7808CT	8.0	3.7 %	3.7 %	35	2.0	2.5	1.5	1.0m†	14	160m\$	1.5	160mΔ	62	40	F091f	Y220b		
20	MC7908CK	8.0	4.0 %	4.0 %	35	2.0	2.5	1.5	1.0m†	14	160m\$	1.5	160mΔ	62	40	F116	TO66		
21	SG7908ACR	8.0	4.0 %	4.0 %	35	30 Δ	3.0	1.5	60m*†	15	40m\$	50	50mΔ	60	40	F187	TO66		
22	SG7908AF	8.0	4.0 %	4.0 %	35	30 Δ	3.0	1.0	60m*†	15	25m\$	50	40mΔ	60	40	F187	TO66		
23	7808CDA	8.0	3.7 %	3.7 %	35	2.0	3.5	1.0	800u†	14	160m\$	500m	80mΔ	56	40	F091g	TO3		
24	7808DA	8.0	3.7 %	3.7 %	35	2.0	3.5	1.0	800u†	14	80m\$	500m	40mΔ	62	40	F091g	TO3		
25	SG7908ACK	8.0	4.0 %	4.0 %	35	30 Δ	4.3	1.5	80m*†	15	40m\$	50	50mΔ	60	40	F187	TO3		
26	SG7908AK	8.0	4.0 %	4.0 %	35	30 Δ	4.3	1.0	80m*†	15	25m\$	50	40mΔ	60	40	F187	TO3		
27	HA17808P	8.0	7.7	9.3	35	2.0	1.5	450m	16 †	800m†	6.0	80m\$	500m	80mΔ	56	30	F215	TO220	
28	LAS1508	8.0	5.0 %	5.0 %	35	2.4	1.5	1.5			15	2.0	1.4	600m	58	5E	F169	CN48b	
29	LAS1808	8.0	5.0 %	5.0 %	35	2.1	1.5	1.5			15	2.0	1.4	600m	59	5E	F169	CN48b	
30	LM340-8DA	8.0	3.8 %	3.8 %	35	10 *	15 *	1.5			14	160m\$	1.4	160mΔ	55	40	F110	Y220b	
31	LM340-8U	8.0	3.8 %	3.8 %	35	10 *	15 *	1.5			14	160m\$	1.4	160mΔ	55	40	F110	Y220b	
32	uPC7808H	8.0	300m\$	300m\$	35	2.0	2.0 *	1.5	16m	800u	14	160m\$	1.5	160mΔ	56	28	F091b	Y220b	
33	uPC14308H	8.0	3.7 %	3.7 %	35	2.0	2.0	1.0	800u†	14	160m\$	1.5	160mΔ	56	10u†	10u†	F091b	Y220b	
34	78MHV08CDB	8.0	300m\$	300m\$	60	2.0	4.0 *	500m	500u†	14	100m\$	500m	160mΔ	56	300m	7.0u	F207	TO39	
35	SA78MHV08CDB	8.0	300m\$	300m\$	60	2.0	4.0 *	500m	500u†	14	100m\$	500m	160mΔ	56	300m	7.0u	F207	TO39	
36	78MHV08CU	8.0	300m\$	300m\$	60	2.0	5.0 *	500m	500u†	14	100m\$	500m	160mΔ	56	300m	7.0u	F207	Y220b	
37	78MHV08DB	8.0	300m\$	300m\$	60	2.0	5.0 *	500m	500u†	14	60m\$	500m	80mΔ	56	300m	7.0u	F207	Y220b	
38	SA78MHV08CU	8.0	300m\$	300m\$	60	2.0	5.0 *	500m	500u†	14	100m\$	500m	160mΔ	56	300m	7.0u	F207	TO39	
39	78HV08CDA	8.0	300m\$	300m\$	60	2.0	1.5	1.0	16m†	800u†	14	160m\$	1.5	160mΔ	56	300m	7.0u	F207	TO39
40	78HV08CU	8.0	300m\$	300m\$	60	2.0	1.5	1.0	16m†	800u†	14	160m\$	1.5	160mΔ	56	300m	7.0u	F207	Y220b
41	78HV08DA	8.0	300m\$	300m\$	60	2.0	1.5	1.0	16m†	800u†	14	160m\$	1.5	160mΔ	56	300m	7.0u	F207	TO39
42	SA78HV08CDA	8.0	300m\$	300m\$	60	2.0	1.5	1.0	16m†	800u†	14	160m\$	1.5	160mΔ	56	300m	7.0u	F207	TO39
43	SA78HV08CU	8.0	300m\$	300m\$	60	2.0	1.5	1.0	16m†	800u†	14	160m\$	1.5	160mΔ	56	300m	7.0u	F207	Y220b
44	uA78L82AHC	8.2	4.0 %	4.0 %	35	10 *	15 *	100m	800u†	12	175m\$	99m	80mΔ	39	40	F164	CN38e		
45	uA78L82AWC	8.2	4.0 %	4.0 %	35	10 *	15 *	100m	800u†	12	175m\$	99m	80mΔ	39	40	F164	TO92		
46	uA78L82AVW	8.2	4.0 %	4.0 %	35	10 *	15 *	100m	800u†	12	175m\$	99m	80mΔ	39	40	F164	TO92		
47	SFC2908LEC	8.4	4.0 %	4.0 %	35	2.0	0.5	1.0			15	160m\$	195m	80mΔ	62	40	F233	Y220	
48	SFC2908RM	8.4	4.0 %	4.0 %	35	2.0	0.5	1.0			15	160m\$	195m	80mΔ	62	40	F233	TO3	
49	LA5700	8.5			35	2.0	1.0				15	80m\$	500m	40mΔ	72	40	F244	MT1	
50	TBA435AX5	8.5	4.7 %	4.7 %	20	11 *	750m	100m	100m†	85m†	14	600mΔ	1.0 Δ	46	40	F078	Y039		
51	uA7885CKC	8.5	4.1 %	4.1 %	25	2.0	1.5	1.5	16m†	800u†	14	170m\$	1.4	170mΔ	54	40	F165a	Y220b	
52	uA7885CKA	8.5	4.1 %	4.1 %	25	3.5	1.5	1.5	16m†	800u†	14	170m\$	1.4	170mΔ	54	40	F091	TO3	
53	uA7885MKA	8.5	4.1 %	4.1 %	25	3.5	1.5	1.5	16m†	800u†	14	85m\$	1.4	85mΔ	60	40	F091	TO3	
54	uA7885UC	8.5	4.1 %	4.1 %	25	3.5	1.5	1.5	16m†	800u†	14	170m\$	1.4	170mΔ	54	40	F091	MT5	
55	TL496CP	9.0	7.2	8.6	20	11	80m								40	F164	TO92		
56	L78M09	9.0	8.6	9.4	25	2.0	1.2	500m			8.0	2.0m†	195m	90mΔ	56	17	F231	Y220a	
57	L78N09	9.0	8.6	9.4	25	2.0	1.2	500m			8.0	2.0m†	195m	90mΔ	56	17	F231	MT55	
58	L7808CT	9.0			35				16m†	80m†	85m			170mΔ	56	40	F220	TO3	
59	L7808CV	9.0			35				16m†	80m†	85m			170mΔ	56	40	F220	Y220	
60	L7809CT	9.0			35				19m†	80m†	40m			85mΔ	56	40	F220	TO3	
61	uA78L09AWC	9.0	4.0 %	4.0 %	35	11 *	100m		900u†	12	200m\$	99m	90mΔ	36	40	F164	TO92		
62	TA78L09AP	9.0	4.0 %	4.0 %	35	1.7	0.8	150m			13	230m†	99m	90mΔ	36	37	MP23	MP23	
63	TA78L09P	9.0	6.4 %	6.4 %	35	2.0	1.5	1.0			850u†	13	230m†	99m	90mΔ	36	37	MP23	MP23
64	TA7809AP	9	5	5	35	2.0	1.5	1.0								37	F091e	Y220ab	
65	MC79L05AC(A)	-5			30		1775m				12	100m\$	39m	30mΔ	41	40	F175u	Y228a	
66	MC79L05C(A)	-5			30		1775m				12	150m\$	39m	30mΔ	40	40	F175b	Y228a	
67	LAS18A05	-5			40	30		3.5			10	2.0	1.4	600m	59	5F	F182	TO3	
68	uPC7905H	10			40			1.0			18	100m\$	3.5m	150mΔ	54	40	F182	Y220AB	
69	ESM700	10	2.3 %	2.3 %	16	1.7		220m			500u					40	F182	TO126	
70	uB675B-1	10	50m\$	50m\$	20	5.5	300m	15m			6.0	300u	200u*			40	F091	TO39	
71	uB675C-1	10	50m\$	50m\$	20	5.5	300m	15m			6.0	300u	200u*			40	F091	TO99	
72	L78M10	10	9.6	10	25	2.0	1.2	500m			9.0	2.0m†	195m	100mΔ	55	17	F231	Y225a	
73	L78N10	10	9.6	10	25	2.0	1.2	500m			9.0	2.0m†	195m	100mΔ	55	17	F231	MT55	
74	ESM1410	10	5.0 %	5.0 %	27	3.0	1.2	900m			6.5	33m	440m	1.0	46	40	F231	TO126	
75	LM340-10KC	10	4.0 %	4.0 %	29						15	200m\$				40	F164	Y220b	
76	uA78M10CKC	10	4.0 %	4.0 %	28			500m			15	200m\$				40	F161a	MT7	
77	uA78M10CKD	10	4.0 %	4.0 %	23			500m			15	200m\$				40	F161b	CN40	

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4	TYPE No.	1	ADJUSTABLE OUTPUT		2	3	MAX. LOAD CUR.	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE REG.	MAX. OUTPUT CHG. (ΔV)	MAX. LOAD REG.	MAX. LOAD REG. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY		T E O D	C M P E	DRAWINGS
				NOM. VOLT. OUT (V)	LOW VOLT. (V)											HIGH RANGE (V)	MIN. INPUT LINE V				MIN. IN/OUT (ΔV)	POWER DISS. @ 25°C (W)	LINE VOLT. CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	LOAD CUR. CHG. (ΔA)	VOLT. CHG. (%)	@LINE CHG. (S)	@LOAD CHG. (S)
1		SG140-12T	12	4.2 %	4.2 %	30	14 *	500m	18m†	800u†	15	120m§	495m	60mΔ	71 †	5F	F091	TO39		
2		SG340-12K	12	4.2 %	4.2 %	30	14 *	1.5	18m†	240m§	15	240m§	1.4	240mΔ	71 †	5F	F091	TO3		
3		SG340-12P	12	4.2 %	4.2 %	30	14 *	1.5		800u†	15	240m§	1.4	240mΔ	71 †	5F	F091	Y220b		
4		SG340-12R	12	4.2 %	4.2 %	30	14 *	1.5		800u†	15	240m§	1.4	240mΔ	71 †	5F	F091	TO66		
5		SG340-12T	12	4.2 %	4.2 %	30	14 *	1.5		800u†	15	240m§	1.4	240mΔ	71 †	5F	F091	TO39		
6		SG7812ACK	12	1.7 %	1.7 %	30	14 *	500m	18m†	800u†	16	120m§	1.5	120mΔ	71 †	5F	F160b	TO3		
7		SG7812ACP	12	1.7 %	1.7 %	30	14 *	1.5		800u†	16	120m§	1.5	120mΔ	71 †	5F	F160c	Y220b		
8		SG7812ACR	12	1.7 %	1.7 %	30	14 *	1.5		800u†	16	120m§	1.5	120mΔ	71 †	5F	F160	TO66		
9		SG7812ACT	12	1.7 %	1.7 %	30	14 *	500m		800u†	16	120m§	495m	60mΔ	71 †	5F	F160a	TO39		
10		SG7812AK	12	1.7 %	1.7 %	30	14 *	1.5		800u†	16	60m§	1.5	80mΔ	71 †	5F	F160b	TO3		
11		SG7812AR	12	1.7 %	1.7 %	30	14 *	1.5		800u†	16	60m§	1.5	80mΔ	71 †	5F	F160	TO66		
12		SG7812AT	12	1.7 %	1.7 %	30	14 *	500m		800u†	16	60m§	1.5	80mΔ	71 †	5F	F160a	TO39		
13		SG7812CK	12	4.2 %	4.2 %	30	14 *	1.5	18m†	800u†	15	240m§	1.4	240mΔ	71 †	5F	F091	TO3		
14		SG7812CP	12	4.2 %	4.2 %	30	14 *	1.5		800u†	15	240m§	1.4	240mΔ	71 †	5F	F091	Y220b		
15		SG7812CR	12	4.2 %	4.2 %	30	14 *	1.5		800u†	15	240m§	1.4	240mΔ	71 †	5F	F091	TO66		
16		SG7812CT	12	4.2 %	4.2 %	30	14 *	500m	18m†	800u†	15	240m§	495m	120mΔ	71 †	5F	F091	TO39		
17		SG7812K	12	4.2 %	4.2 %	30	14 *	1.5	18m†	800u†	15	120m§	1.4	120mΔ	71 †	5F	F091	TO3		
18		SG7812R	12	4.2 %	4.2 %	30	14 *	1.5	18m†	800u†	15	120m§	1.4	120mΔ	71 †	5F	F091	TO66		
19		SG7812T	12	4.2 %	4.2 %	30	14 *	500m	18m†	800u†	15	120m§	495m	60mΔ	71 †	5F	F091	TO39		
20		SG7912CK	12	4.2 %	4.2 %	30	1.0	1.5		300u†	15	240m§	1.4	240mΔ	54	5F	F187	TO3		
21		SG7912CP	12	4.2 %	4.2 %	30	1.0	1.5		800u†	15	240m§	1.4	240mΔ	54	5F	F187	Y220b		
22		SG7912CR	12	4.2 %	4.2 %	30	1.0	1.5		800u†	15	240m§	1.4	240mΔ	54	5F	F187	TO66		
23		SG7912CT	12	4.2 %	4.2 %	30	1.0	1.5		800u†	15	240m§	495m	120mΔ	54	5F	F187	TO39		
24		SG7912K	12	4.2 %	4.2 %	30	1.0	1.5		800u†	15	120m§	1.4	120mΔ	54	5F	F187	TO3		
25		SG7912R	12	4.2 %	4.2 %	30	1.0	1.5		800u†	15	120m§	1.4	120mΔ	54	5F	F187	TO66		
26		SG7912T	12	4.2 %	4.2 %	30	1.0	1.5		800u†	15	120m§	495m	60mΔ	54	5F	F187	TO39		
27		JA78M12CLA	12	4.1 %	4.1 %	30		600m	500m	100m§	15	100m§	495m	240mΔ	55	5C	F161b	CN40		
28		JA78M12MLA	12	4.1 %	4.1 %	30		600m	500m	100m§	15	100m§	495m	120mΔ	55	5C	F161b	CN40		
29		JA79M12CLA	12	4.1 %	4.1 %	30		600m	500m	80m§	15	80m§	495m	240mΔ	50	5C	F163b	CN40		
30		JA79M12MLA	12	4.1 %	4.1 %	30		600m	500m	80m§	15	80m§	495m	240mΔ	50	5C	F163b	CN40		
31		JA78M12CKD	12	4.1 %	4.1 %	30		1.5	300m	100m§	15	100m§	495m	240mΔ	55	5C	F163a	MT7		
32		JA79M12CKD	12	4.1 %	4.1 %	30		1.5	300m	100m§	15	100m§	495m	240mΔ	55	5C	F163a	MT7		
33		LM329H	12	4.1 %	4.1 %	30	2.0	2.0	100m	100m§	15	100m§	495m	240mΔ	50	5C	F163a	MT7		
34		JA78M12CKC	12	4.1 %	4.1 %	30	2.0	2.0	500m	100m§	15	100m§	495m	240mΔ	55	5C	F163a	MT7		
35		JA79M12CKC	12	4.1 %	4.1 %	30	2.0	2.0	500m	100m§	15	100m§	495m	240mΔ	55	5C	F163a	MT7		
36		JA7812CKC	12	4.1 %	4.1 %	30	2.0	2.0	1.5	18m†	15	240m§	1.4	240mΔ	55	5C	F162a	Y220b		
37		JA7912CKC	12	4.1 %	4.1 %	30	2.0	2.0	1.5	18m†	15	240m§	1.4	240mΔ	55	5C	F162a	Y220b		
38		JA7812CKA	12	4.1 %	4.1 %	30	3.5	1.5	18m†	1.0m†	15	240m§	1.4	240mΔ	55	5C	F091	TO3		
39		JA7812MKA	12	4.1 %	4.1 %	30	3.5	1.5	18m†	1.0m†	15	240m§	1.4	240mΔ	55	5C	F091	TO3		
40		JA7912CKA	12	4.1 %	4.1 %	30	3.5	1.5	18m†	1.0m†	15	240m§	1.4	240mΔ	55	5C	F091	TO3		
41		JA7912MKA	12	4.1 %	4.1 %	30	3.5	1.5	18m†	1.0m†	15	240m§	1.4	240mΔ	55	5C	F091	TO3		
42		LAS1612	12	5.0 %	5.0 %	30	2.6	2.0	2.0	20mΔ	9.0	2.0	2.0	60m	60	5F	F182	TO3		
43		LAS1612B	12	3.0 %	5.0 %	30	2.6	2.0	2.0	20mΔ	9.0	2.0	2.0	0.6	60	5F	F182	TO3		
44		LAS1412B	12	3.0 %	5.0 %	30	2.5	3.0	3.0	20mΔ	10	1.0	2.0	0.6	60	5F	F182	TO3		
45		LAS1912	12	5.0 %	5.0 %	30	2.6	5.0	5.0	30m†	9.0	2.0	4.9	600m	60	5D	F182	TO3		
46		LAS1912B	12	3.0 %	5.0 %	30	2.6	5.0	5.0	30mΔ	9.0	2.0	5.0	30mΔ	60	5D	F182	TO3		
47		NE5553F	12	5.0 %	5.0 %	32	20 *	100m		1.0m	10	300m§	49m	50mΔ	55	5C	F200	DL14aw		
48		SE5553F	12	5.0 %	5.0 %	32	20 *	100m		1.0m	10	150m§	49m	25mΔ	55	5F	F200	DL14aw		
49		SG120-12K	12	2.5 %	2.5 %	32	1.0	1.5	30m†	800u†	18	10m§	1.4	80mΔ	54	5F	F187	TO3		
50		SG120-12R	12	2.5 %	2.5 %	32	1.0	1.5	30m†	800u†	18	10m§	1.4	80mΔ	54	5F	F187	TO66		
51		SG120-12T	12	2.5 %	2.5 %	32	1.0	500m	30m†	800u†	18	10m§	495m	25mΔ	54	5F	F187	TO39		
52		SG220-12K	12	2.5 %	2.5 %	32	1.0	1.5	30m†	800u†	18	10m§	1.4	80mΔ	54	5F	F187	TO3		
53		SG220-12R	12	2.5 %	2.5 %	32	1.0	1.5	30m†	800u†	18	10m§	1.4	80mΔ	54	5F	F187	TO66		
54		SG220-12T	12	2.5 %	2.5 %	32	1.0	500m	30m†	800u†	18	10m§	495m	25mΔ	54	5F	F187	TO39		
55		SG320-12K	12	3.3 %	3.3 %	32	2.0	1.5	160m	800u†	18	20m§	1.4	80mΔ	54	5C	F187	TO3		
56		SG320-12P	12	3.3 %	3.3 %	32	1.0	1.5		800u†	18	20m§	1.4	80mΔ	54	5C	F187	Y220b		
57		SG320-12R	12	3.3 %	3.3 %	32	1.0	1.5		800u†	18	20m§	1.4	80mΔ	54	5C	F187	TO66		
58		SG320-12T	12	3.3 %	3.3 %	32	2.0	500m	30m†	800u†	18	20m§	495m	40mΔ	54	5C	F187	TO39		
59		NE5553T	12	500m§	500m§	32	2.5	650m	300m	1.0m†	10	300m§	199m	200mΔ	55	5C	F200a	TO39		
60		NE5555T	12	500m§	500m§	32	2.5	650m	300m	1.0m†	10	300m§	199m	200mΔ	55	5C	F200a	TO39		
61		SE5553T	12	500m§	500m§	32	2.5	650m	300m	1.0m†	10	150m§	199m	100mΔ	55	5F	F200a	TO39		
62		SE5555T	12	500m§	500m§	32	2.5	650m	300m	1.0m†	10	150m§	199m	100mΔ	55	5F	F200a	TO39		
63		JANM38510/10703BXA	12	5.0 %	5.0 %	32	15 *	890m*	500m	3.0m	17	120m§	495m	240mΔ	55	5C	F186	CN40		
64		JANM38510/10703BxB	12	5.0 %	5.0 %	32	15 *	890m*	500m	3.0m	17	120m§	495m	240mΔ	55	5C	F186	CN40		
65		JANM38510/10703BxC	12	5.0 %	5.0 %	32	15 *	890m*	500m	3.0m	17	120m§	495m	240mΔ	55	5C	F186	CN40		
66		JANM38510/10703CXA	12	5.0 %	5.0 %	32	15 *	890m*	500m	3.0m	17	120m§	495m	240mΔ	55	5C	F186	CN40		
67		JANM38510/10703CXB	12	5.0 %	5.0 %	32	15 *	890m*	500m	3.0m	17	120m§	495m	240mΔ	55	5C	F186	CN40		
68		JANM38510/10703CXC	12	5.0 %	5.0 %	32	15 *	890m*	500m	3.0m	17	120m§	495m	240mΔ	55	5C	F186	CN40		
69		NE5553N	12	500m§	500m§	32	2.5	1.1	300m	1.0m†	10	300m§	199m	200mΔ	55	5C	F200	DL14aw		
70		NE5555N	12	500m§	500m§	32	2.5	1.1	300m	1.0m†	10	300m§	199m	200mΔ	55	5C	F200	DL14aw		
71		SE5553N	12	500m§	500m§	32	2.5	1.1	300m	1.0m†	10	150m§	199m	100mΔ	55	5F	F200	DL14aw		
72		SE5555N	12	500m§	500m§	32	2.5	1.1	300m	1.0m†	10	150m§	199m	100mΔ	55	5F	F200	DL14aw		
73		JANM38510/10707BYA	12	5.0 %	5.0 %	32	15 *	3.6 *	1.0	3.0m	17	120m§	995m	240mΔ	55	5C	F186b	TO3		
74		JANM38510/10707BYC	12	5.0 %	5.0 %	32	15 *	3.6 *	1.0	3.0m	17	120m§	995m	240mΔ	55	5C	F186b	TO3		
75		JANM38510/107																		

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE		2 | MAX INPUT LINE VOLT |	MIN OUT/IN DIFF. (ΔV)	3 | MAX POWER DISS. @ 25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	LINE VOLT CHG. (ΔV)	MAX LINE REG. OUTPUT VOLT. CHG. (%)	LOAD CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	T C O P E	DRAWINGS	OUT-LINE Δ=MO
			LOW (V)	HIGH (V)																MIN VOLT	MAX VOLT
1	LM7912CK	12	4.2 %	4.2 %	35		1.5		800uf	15	80m	1.4	200mΔ	54		07	F152	CN79	
2	LM7912CT	12	4.2 %	4.2 %	35		1.5		800uf	15	80m	1.4	200mΔ	54		07	F152	MT03	
3	MC78T12ACK	12			35				2.4m	20	18m	2.5m	25mΔ	61		0C	F241	TO3	
4	MC78T12ACT	12			35				2.4m	20	18m	2.5m	25mΔ	61		0C	F241	V220	
5	MC78T12AK	12			35				2.4m	20	18m	2.5m	25mΔ	61		0C	F241	TO3	
6	MC78T12CK	12			35				2.4m	20	18m	2.5m	30mΔ	67		0C	F241	TO3	
7	MC78T12CT	12			35				2.4m	20	45m	2.5m	30mΔ	67		0C	F241	Y220	
8	MC78T12K	12			35				2.4m	20	45m	2.5m	30mΔ	67		5C	F241	TO3	
9	MC78T12BK	12			35				2.4m	20	45m	2.5m	30mΔ	67		4E	F091g	CN48	
10	MC7812BT	12	4 %	4 %	35	2.0	0.2	17m	1.1m	4	50m	3.5m	50mΔ	68		4E	F091g	Y220	
11	MC7812K	12	4 %	4 %	35	2.0	0.2	17m	1.1m	4	50m	3.5m	50mΔ	68		5E	F091g	CN48	
12	MC7912ACK	12	2.0 %	2.0 %	35	2.0	1.2	18	1.5m	15	120m	1.5	120mΔ	61		0C	F116	Y220	
13	MC7912ACT	12	2.0 %	2.0 %	35	2.0			1.0m	15	120m	500m	75mΔ	61		0F	F116	Y220b	
14#	ML7812A	12	5.0 %	5.0 %	35	1.9 *	500m	75m	1.0m	15	240m	500m	120mΔ	61		07	F233	Y220b	
15#	SFC2812EC	12	4.1 %	4.1 %	35	2.0			2.0m	15	240m	1.5	250mΔ	61		07	F233	Y220b	
16	SFC2812LEC	12			35	2.0		0.5	240m	15	195m	1.5	120mΔ	61		07	F233	Y220	
17#	SFC2812RC	12	4.1 %	4.1 %	35	2.0			240m	15	240m	1.5	240mΔ	61		07	F233	TO3	
18	SFC2812RM	12			35	2.0		1.0	120m	15	120m	500m	60mΔ	71		5C	F233	TO3	
19#	TDD1612S	12	11	12	35		500m		1.0m	15	100m	495m	240mΔ	55		0C	F091	MT6	
20	uA78L12AHC	12	4.1 %	4.1 %	35	14 *	100m		1.0m	12	250m	99m	100mΔ	37		0E	F164	CN38e	
21	uA78L12AWC	12	4.1 %	4.1 %	35		100m		1.0m	12	250m	99m	100mΔ	37		0E	F243	TO92	
22	uA78L12AWV	12	4.1 %	4.1 %	35		100m		1.0m	12	250m	99m	100mΔ	37		4C	F164	TO92	
23	uA78L12HM	12	4.1 %	4.1 %	35	1.7 *	39m		1.0m	13	102m	99m	8.3mΔ	37		5C	F164	CN38e	
24	uA78M12HC	12	4.1 %	4.1 %	35		500m		1.0m	15	100m	495m	240mΔ	55		0E	F165b	TO39	
25	uA78M12HM	12	4.1 %	4.1 %	35		500m		1.0m	15	60m	495m	120mΔ	55		2E	F165a	MT24a	
26	uA78M12RM	12	4.1 %	4.1 %	35	1.1 *	39m		1.0m	15	8.3mΔ	495m	120mΔ	55		0E	F165a	Y220b	
27	uA78M12UC	12	4.1 %	4.1 %	35		500m		1.0m	15	100m	495m	240mΔ	55		0E	F165a	Y220b	
28	uA78M12UVC	12	4.1 %	4.1 %	35	1.1 *	39m		1.0m	16	8.3mΔ	495m	120mΔ	55		4E	F165a	MT24a	
29	uA78M12U1C	12	4.1 %	4.1 %	35	1.1 *	39m		1.0m	16	8.3mΔ	495m	120mΔ	55		07	F165a	MT24a	
30	uA79M12AHC	12	4.1 %	4.1 %	35		500m		800u	15	80m	495m	240mΔ	50		0E	F163	TO39	
31	uA79M12AUC	12	4.1 %	4.1 %	35		500m		800u	15	80m	495m	240mΔ	50		0F	F163	Y220b	
32	uA79M12AUV	12	4.1 %	4.1 %	35	1.1 *	39m		80m	15	6.9mΔ	495m	240mΔ	50		4E	F163	MT5	
33	uA79M12HM	12	4.1 %	4.1 %	35		500m		800u	15	80m	495m	240mΔ	50		5E	F163	TO39	
34	uA79M12U1C	12	4.1 %	4.1 %	35	.75	40u		80m	15	6.9mΔ	495m	240mΔ	50		07	F163	MT5	
35	uA7812KC	12	4.1 %	4.1 %	35		2.2		1.0m	15	240m	1.4	240mΔ	61		0C	F091	TO3	
36	uA7812KM	12	4.1 %	4.1 %	35		2.2		1.0m	15	240m	1.4	120mΔ	61		5F	F091	TO3	
37	uA7812UC	12	4.1 %	4.1 %	35		2.2		1.0m	15	240m	1.4	240mΔ	55		0C	F091	MT5	
38	uA7812UV	12	4.1 %	4.1 %	35		2.2		1.0m	15	240m	1.4	120mΔ	55		2B	F091	MT5	
39	uA7912KC	12	4.1 %	4.1 %	35		1.5		800uf	15	240m	1.4	240mΔ	55		0E	F162	TO3	
40	uA7912KM	12	4.1 %	4.1 %	35		1.5		800uf	15	120m	1.4	240mΔ	55		5E	F162	TO3	
41	uA7912UC	12	4.1 %	4.1 %	35		1.5		800uf	15	240m	1.4	240mΔ	55		5E	F162a	MT5	
42	UC7812ACK	12			35		1.0			13	12m	1.4	32mΔ	62		5F	F162	TO3	
43	UC7812ACT	12			35		1.0			13	12m	1.4	32mΔ	62		5F	F162	TO3	
44	UC7812AK	12			35		1.0			13	60m	1.4	64mΔ	56		5F	F162	TO3	
45	UC7812CK	12			35		1.0			13	84m	1.4	100mΔ	56		0C	F162	Y220	
46	UC7812CT	12			35		1.0			13	60m	1.4	64mΔ	56		5F	F162	TO3	
47	UC7812K	12			35		1.0			13	60m	1.4	100mΔ	56		5F	F162	TO3	
48	MC7812ACK	12	2.0 %	2.0 %	35		15m	18m	1.0m	16	120m	3.5m	100mΔ	60		0F	TO3	TO3	
49	MC7812ACT	12	2.0 %	2.0 %	35		15m	18m	1.0m	16	120m	3.5m	100mΔ	60		0F	TO3	Y220	
50	MC7812AK	12	2.0 %	2.0 %	35		15m	18m	1.5m	15	18m	3.5m	50mΔ	61		5C	F175	N	
51	LM140LAH12	12	2.1 %	2.1 %	35	2.2	54m	100m	200m	2.0 %	15	65m	99m	80mΔ	47		5C	F148	CN40
52	LM340LAH12	12	2.1 %	2.1 %	35	2.2	54m	100m	200m	2.0 %	15	65m	99m	80mΔ	47		07	F148	CN40
53	LM340LAZ12	12	2.0 %	2.0 %	35	2.2	54m	100m	200m	3.0 %	15	65m	99m	80mΔ	47		07	F148	TO92
54#	ML78L12	12	9.0 %	9.0 %	35	19 *	500m	40m		11	200m	39m	50mΔ	36		07	F227	TO92	
55#	ML78L12A	12	5.0 %	5.0 %	35	19 *	500m	40m		11	200m	39m	50mΔ	36		07	F227	TO92	
56#	LM38PZ12	12	4.0 %	4.0 %	35	1.7	0.6 *	100m		16	40m	249m	120mΔ	56		07	F201	TO92	
57#	ML78P12	12			35	1.7	650m			13	250m	99m	100mΔ	36		0C	F226	Y220	
58#	ML78P12A	12			35	1.7	650m			13	250m	99m	100mΔ	36		0C	F226	Y220	
59#	78L12ACS	12	5.0 %	5.0 %	35	1.7	700m	100m		11	200m	99m	100mΔ	37		0C	F175a	TO92	
60#	78L12CS	12	10 %	10 %	35	1.7	700m	100m		11	200m	99m	100mΔ	36		0C	F175a	TO92	
61	MC78L12ACP	12	5.0 %	5.0 %	35	1.7	700m	100m		12	250m	99m	100mΔ	37		0C	F144a	TO92	
62	MC78L12CP	12	10 %	10 %	35	1.7	700m	100m		12	250m	99m	100mΔ	36		0C	F144a	TO92	
63	MC78L12ACP	12	5.0 %	5.0 %	35	1.7	700m	100m		12	250m	99m	100mΔ	36		0C	F145a	TO92	
64	MC78L12CP	12	10 %	10 %	35	1.7	700m	100m		12	250m	99m	100mΔ	36		0C	F145a	TO92	
65	uA78L12AS	12	4.1 %	4.1 %	35		700m	100m		12	250m	99m	100mΔ	37		0E	F164	TO92	
66	uA78L12CS	12	7.5 %	7.5 %	35		700m	100m		12	250m	99m	100mΔ	36		0E	F164	TO92	
67	MC78M12CG	12	4.1 %	4.1 %	35	2.0	800m	500m	1.0m	12	250m	99m	100mΔ	80 +		0C	F091d	TO39	
68#	TA78L012AP	12	4.1 %	4.1 %	35	1.7	0.8	150m		13	250m	99m	100mΔ	36		37	MP23	MP23	
69#	TA78L012P	12	6.5 %	6.5 %	35	1.7	0.8	150m	1.0m	11	200m	99m	100mΔ	36		0C	F175	TO92	
70#	78L12CDB	12	5.0 %	5.0 %	35	1.7	850m	100m		11	200m	99m	100mΔ	37		0C	F175	TO92	
71#	78M12CDB	12	10 %	10 %	35	1.7	850m	100m		11	200m	99m	100mΔ	36		0C	F175	TO92	
72#	78M12CDB	12	4.1 %	4.1 %	35	2.0	850m	500m	1.0m	15	100m	495m	240mΔ	55		0E	F091d	TO39	
73#	78M12DB	12	4.1 %	4.1 %	35	2.0	850m	500m	1.0m	15	60m	495m	120mΔ	55		5E	F091d	TO39	
74	MC78L12ACG	12	5.0 %	5.0 %	35	1.7	850m	100m		12	250m	99m	100mΔ	37		0C	F144	TO39	
75	MC78L12CG	12	10 %	10 %	35	1.7	850m	100m		12	250m	99m	100mΔ	36		0C	F144	TO39	
76	MC79L12ACG	12	5.0 %	5.0 %	35	1.7	850m	100m		12	250m	99m	100mΔ	37		0C	F145	TO39	
77	MC79L12CG	12	10 %	10 %	35	1.7	850m	100m		12	250m	99m	100mΔ	36		0C	F145	TO39	
78	uA78L12ADB	12	4.1 %	4.1 %	35		900m	100m		12	250m	99m	100mΔ	37		0E	F164	TO92	
79	uA78L12DB	12	7.5 %	7.5 %	35		900m	100m		12	250m	99m	100mΔ	36		0E	F164	TO92	
80	7912CDA	12	500m	500m															

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		2 | MAX INPUT LINE VOLT |	MIN OUT/ IN DIFF. (ΔV)	3 | MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE VOLT. CHG. (ΔV)	MAX. LOAD REG.		MAX. TRANSIENT RECOVERY		T C M D P E	DRAWINGS		
			LOW (V)	HIGH (V)								LOAD CUR. (ΔA)	OUT VOLT. CHG. (%)	RIPPL REJ. (dB)	@ LINE CHG. (s)			@ LOAD CHG. (s)	CKT.	OUT-LINE Δ=MO
1	SG7912AR	12	4.1	4.1	35	3.0	1.5		.80m††	16	25m§	.50	40mΔ	60 †	5F	F187	TO66		
2#	7812CDA	12	4.1	4.1	35	2.0	3.5	1.0	1.0m†	15	240m§	500m	120mΔ	61	0C	F091g	TO3		
3#	7812DA	12	4.1	4.1	35	2.0	3.5	1.0	1.0m†	15	120m§	500m	60mΔ	61	5E	F091g	TO3		
4	SG7912ACK	12	4.2	4.2	35	30	4.3	1.5	.80m††	16	50m§	.50	40mΔ	60 †	0C	F187	TO3		
5	SG7912AK	12	4.2	4.2	35	30	4.3	1.5	.80m††	16	25m§	.50	40mΔ	60 †	5F	F187	TO3		
6	LM320MLP12	12	4.2	4.2	35	7.5 *	250m		.80m††	15	40m§	249m	120mΔ	56	07	F201a	MT4		
7	LM341P12	12	4.1	4.1	35	2.0	7.5 *	500m		15	240m§	495m	240mΔ	71 †	07	F199a	MT4		
8#	HA17812P	12	5.0	5.0	35	2.5	15	1.5	1.0 †	6.0	120m§	500m	120mΔ	55	5E	F168	TO220		
9	LAS1412	12	5.0	5.0	35	2.5	15	1.5	30m†	10	2.0	1.5	600m	58	5E	F168	CN48b		
10	LAS1512	12	5.0	5.0	35	2.4	15	1.5		15	2.0	1.4	600m	58	5E	F168	CN48b		
11	LAS1812	12	5.0	5.0	35	2.1	15	1.5		15	2.0	1.4	600m	59	5E	F169	CN48b		
12	LM320T12	12	4.1	4.1	35	15	1.0			17	24m§	995m	120mΔ		0C	F152a	MT3		
13	LM340-12DA	12	4.2	4.2	35	14 *	15 *	1.5		15	240m§	1.4	240mΔ	52 †	07	F110	TO3		
14	LM340-12U	12	4.2	4.2	35	14 *	15 *	1.5		15	240m§	1.4	240mΔ	52 †	07	F110	Y220b		
15	LM340AT12	12	2.1	2.1	35	15	1.5	1.0	18m†	6.0	30m§	995m	60mΔ	61	07	F199	MT3		
16	LM340T12	12	4.2	4.2	35	15	1.0	1.0	18m†	6.0	60m§	995m	120mΔ	55	07	F199	MT3		
17	LM120K12	12	2.5	2.5	35	20	1.0	1.0	18m†	18	10m§	995m	80mΔ	55	5C	F109	TO3		
18	LM140AK12	12	2.1	2.1	35	20	1.0	1.0	18m†	6.0	30m§	995m	60mΔ	61	5C	F199	CN48a		
19	LM140K12	12	4.2	4.2	35	20	1.0	1.0	18m†	6.0	60m§	995m	120mΔ	61	5C	F199	CN48a		
20	LM320K12	12	3.3	3.3	35	20	1.0	1.0	18	18	20m§	995m	80mΔ	56	0C	F109	CN48a		
21	LM320KC12	12	3.3	3.3	35	20	1.0	1.0	18	18	20m§	995m	80mΔ	56	0C	F152a	CN79		
22	LM340AK12	12	2.1	2.1	35	20	1.0	1.0	18m†	6.0	30m§	995m	60mΔ	61	07	F199	CN48a		
23	LM340K12	12	4.2	4.2	35	20	1.0	1.0	18m†	6.0	60m§	995m	120mΔ	55	07	F199	CN48a		
24	LM340KC12	12	4.2	4.2	35	20	1.0	1.0	18m†	6.0	60m§	995m	120mΔ	55	07	F199	CN79		
25#	TDB2912KM	12	2.0	2.0	35	30	2.0	1.0		18	20m§	995m	80mΔ		07		TO3		
26#	TDB2912SP	12	2.0	2.0	35	30	2.0	1.0		18	20m§	995m	80mΔ		07		Y220a		
27#	TDC2912KM	12	2.0	2.0	35	30	2.0	1.0		18	10m§	995m	80mΔ		5C		TO3		
28	uPC7812H	12	500m§	500m§	35	2.0	2.0	1.5	18m	1.0m	15	240m§	1.5	240mΔ	55	28	F091b	Y220b	
29	uPC14312H	12	4.1	4.1	35	2.0	2.0	1.0	1.0m†§	15	240m§	1.5	240mΔ	55	28	F091b	Y220b		
30#	L2012CT	12			37				18m†				1.0		2F	F222	TO3		
31#	L2012CV	12			37				18m†				1.0		2F	F222	Y220		
32#	L2012T	12			37				18m†				1.0		5F	F222	TO3		
33#	L194-12H	12			40							498m	.60		2F	F222	MT14		
34#	L194-12V	12			40							498m	.60		2F	F223	MT15		
35	LAS3700	12			40					5.0	.01	1.0m	3.0m	75 †	3B	F239	TO5		
36	NE550L	12	2.0	4.0	40	3.0		50m	1.0m	31	300m	49m	200m	2.0m	07	F080	CN37b		
37	LAS15A12	12			40	30 Δ	15	3.5	.03 Δ	10	2.0	1.4	.60	58	5F	F182	TO3		
38	78MHV12CDB	12	500m§	500m§	60	2.0	4.0 *	500m	1.0m†	15	100m§	500m	240mΔ	55	08	F207	TO39		
39	SA78MHV12CDB	12	500m§	500m§	60	2.0	4.0 *	500m	1.0m†	15	100m§	500m	240mΔ	55	08	F207	TO39		
40	78MHV12CU	12	500m§	500m§	60	2.0	5.0 *	500m	1.0m†	15	100m§	500m	240mΔ	55	08	F207	Y220b		
41	78MHV12DB	12	500m§	500m§	60	2.0	5.0 *	500m	1.0m†	15	60m§	500m	120mΔ	55	08	F207	TO39		
42	SA78MHV12CU	12	500m§	500m§	60	2.0	5.0 *	500m	1.0m†	15	100m§	500m	240mΔ	55	08	F207	Y220b		
43	78HV12CDA	12	500m§	500m§	60	2.0	15 *	1.0	18m†	15	240m§	1.5	240mΔ	55	08	F207	TO3		
44	78HV12CU	12	500m§	500m§	60	2.0	15 *	1.0	18m†	15	240m§	1.5	240mΔ	55	08	F207	Y220b		
45	78HV12DA	12	500m§	500m§	60	2.0	15 *	1.0	18m†	15	120m§	1.5	120mΔ	61	08	F207	TO3		
46	SA78HV12CDA	12	500m§	500m§	60	2.0	15 *	1.0	18m†	15	240m§	1.5	240mΔ	61	48	F207	TO3		
47	SA78HV12CU	12	500m§	500m§	60	2.0	15 *	1.0	18m†	15	240m§	1.5	240mΔ	61	48	F207	Y220b		
48	LM320MP12TB	12			-25		7.5 *	500m		25	24m§	5.0m	100mΔ		0C	F187	TO202		
49	LM79M12CH	12			-35				-8m†	16	80m§	495m	240mΔ	54	0C	F187	TO39		
50	LM79M12CP	12			-35				-8m†	16	80m§	495m	240mΔ	54	0C	F187	Y202		
51	LM79M12CPTB	12			-35				-8m†	16	80m§	495m	240mΔ	54	0C	F187	Y202		
52	UC7912ACK	12			-35		1.5			18	20m§	1.4	80mΔ	56	5F		TO3		
53	UC7912AK	12			-35		1.5			18	20m§	1.4	80mΔ	56	5F		TO3		
54	UC7912CK	12			-35		1.5			-18	80m§	mΔ	56	5F		TO3			
55	UC7912CT	12			-35		1.5			-18	80m§	1.4	240mΔ	56	0C		Y220		
56	UC7912K	12			-35		1.5			-18	80m§	1.4	120mΔ	56	0C		TO3		
57	LM320MLP12TB	12			-35		7.5 *	250m		16	40m§	249m	120mΔ	56	07	F187	Y202		
58#	TA78L132AP	13	4 %	4 %	35	1.7	0.8	150m	1.2m†	12	270m§	99m	120mΔ	34	37		MP23		
59#	TA78L132P	13	6.5 %	6.5 %	35	1.7	0.8	150m	1.2m†	12	270m§	99m	120mΔ	34	37		MP23		
60	LAS15CB	13			40	30 Δ	15	3.5	.03 Δ	10	2.0	1.4	.60	58	5F	F182	TO3		
61	uPC7908H	14			40			1.0	.60m††	10	160m§	3.5m	200mΔ	54	0C		Y220AB		
62	CA3085	14	1.6	27	30	4.0	630m		1.1	3.5m†Δ	150mΔ	99m	100mΔ	50 †	800n	3.0u	5C	F088	Δ002AL
63	CA3085H	14	1.6	27	30	4.0	630m		1.1	3.5m†Δ	150mΔ	99m	100mΔ	50 †	800n	3.0u	5C	F088	CH16W
64	CA3085S	14	1.6	27	30	4.0	630m		1.1	3.5m†Δ	150mΔ	99m	100mΔ	50 †	800n	3.0u	5C	F088	
65	LAS16CB	14	5.0 %	5.0 %	30	2.6	20	2.0	20mΔ	9.0	2.0	2.0	600m	60	5F	F182	CN75		
66	LM305P	14	4.5	30	40	3.0	500m	12m		5.0	60mΔ	12m	50m		07	F003	DL14y		
67	SA7814CDA	14	500m§	500m§	40	2.0	1.0 *	1.0	18m†	13	280m§	1.5	280mΔ	60	48	F091c	TO3		
68	SA7814CU	14	500m§	500m§	40	2.0	1.0 *	1.0	18m†	13	280m§	1.5	280mΔ	60	48	F091c	Y220b		
69	uA7814CDA	14	500m§	500m§	40	2.0	1.0 *	1.0	18m†	13	280m§	1.5	280mΔ	60	08	F091c	TO3		
70	uA7814CU	14	500m§	500m§	40	2.0	1.0 *	1.0	18m†	13	280m§	1.5	280mΔ	60	08	F091c	Y220b		
71	uA7814DA	14	500m§	500m§	40	2.0	1.0 *	1.0	18m†	13	140m§	1.5	140mΔ	54	5C	F091c	TO3		
72	uA78HGKC	14	5.0	24	40	8.5 *	50 *	5.0		16	1.0	5.0	1.0	60	0E				

8. VOLTAGE REGULATORS

IN ORDER OF (1)MAX V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		2 | MAX INPUT LINE VOLT |	MIN | JOUT/ IN | DIFF. (ΔV)	3 | MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE VOLT. CHG. (ΔV)	MAX OUTPUT VOLT. CHG. (%)	MAX LOAD CUR. (ΔA)	MAX OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	T O E M D	C O P E	DRAWINGS CKT. Δ=MO
			LOW (V)	HIGH (V)															
1	SG7815R	15	4.0	4.0	30	17 *	1.5			1.0m†	12	150m§	1.4	150mΔ	70 †	0F	F091	TO66	
2	SG7815T	15	4.0	4.0	30	17 *	500m	19m†		1.0m†	12	150m§	1.4	75mΔ	70 †	0E	F091	TO39	
3	SG7915CK	15	4.0	4.0	30	1.0	1.5			1.0m†	17	300m§	1.4	300mΔ	54	0C	F187	TO3	
4	SG7915CP	15	4.0	4.0	30	1.0	1.5			1.0m†	17	300m§	1.4	300mΔ	54	0C	F187	Y220	
5	SG7915CR	15	4.0	4.0	30	1.0	1.5			1.0m†	17	300m§	1.4	300mΔ	54	0C	F187	TO66	
6	SG7915CT	15	4.0	4.0	30	1.0	500m			1.0m†	17	300m§	495m	150mΔ	54	0C	F187	TO39	
7	SG1468T	15	14	20	30	2.0	600m				12	20m†§	50m	30mΔ	75 †	07	F098b	DL14u	
8	uA78M15CLA	15	4.0	4.0	30		600m				12	100m§	495m	300mΔ	54	0C	F161b	CN40	
9	uA78M15MLA	15	4.0	4.0	30		600m				12	60m§	495m	150mΔ	54	5C	F161b	CN40	
10	uA79M15CLA	15	4.0	4.0	30		600m				12	80m§	495m	240mΔ	50	0C	F163b	CN40	
11	uA79M15MLA	15	4.0	4.0	30		600m				12	80m§	495m	240mΔ	50	5C	F163b	CN40	
12	SG1468T	15	14	20	30	2.0	680m				12	20m†§	50m	30mΔ	75 †	07	F098	TO100	
13	SG1568T	15	14	20	30	2.0	680m				12	20m†§	50m	30mΔ	75 †	5C	F098	TO100	
14	MC1468G	15	14	20	30	2.0	800m				12	10m§	50m	10mΔ	75 †	07	F098	CN10f	
15	MC1568G	15	14	20	30	2.0	800m				12	10m§	50m	10mΔ	75 †	5C	F098	CN10f	
16	XR195MT	15	1.4	1.5	30	3.0	600m			15mΔ	20m	10m§	50m	10mΔ	75 †	5F	F172a	TO99	
17	LM325AN	15	1.3	1.3	30	2.0	1.0				12	10m§	50m	10mΔ		07	F149	DL14z	
18	LM325N	15	3.3	3.3	30	2.0	1.0				12	10m§	50m	10mΔ		07	F149	DL14z	
19	MC1468L	15	8.0	20	30	2.0	1.0				12	10m§	50m	10mΔ	75 †	07	F098b	TO116	
20	MC1568L	15	8.0	20	30	2.0	1.0				12	10m§	50m	10mΔ	75 †	5C	F098b	TO116	
21	SG1468J	15	1.4	20	30	2.0	1.0				12	20m†§	50m	30mΔ	75 †	07	F098b	TO116	
22	SG1568J	15	1.4	20	30	2.0	1.0				12	20m†§	50m	10mΔ	75 †	5C	F098b	TO116	
23	XR1468CN	15	8.0	20	30	2.0	1.0	100m	1.0 %		12	10m§	50m	10mΔ	75 †	07	F098b	DL14bp	
24	XR1568M	15	8.0	20	30	2.0	1.0	100m	1.0 %		12	10m§	50m	10mΔ	75 †	5C	F098b	DL14bp	
25	XR1568N	15	8.0	20	30	2.0	1.0	100m	1.0 %		12	10m§	50m	10mΔ	75 †	07	F098b	DL14bp	
26	uA78L15ACJG	15	5.0	5.0	30	1.1		100m			12	300m§	99m	100mΔ	34	0C	F164	DL8v	
27	uA78L15CJG	15	10	10	30	1.1		100m			12	300m§	99m	100mΔ	33	0C	F164	DL8v	
28#	L78M15	15	14	15	30	2.0	1.2	500m			11	3.0m†§	195m	150mΔ	54	17	F231	Y220a	
29#	L78N15	15	14	15	30	2.0	1.2	500m			11	3.0m†§	195m	150mΔ	54	17	F231	MT55	
30	uA78M15CKD	15	4.0	4.0	30		1.5	500m			12	100m§	495m	300mΔ	54	0C	F161a	MT7	
31	uA79M15CKD	15	4.0	4.0	30		1.5	500m			12	80m§	495m	240mΔ	50	0C	F163a	MT7	
32	LM325N	15	3.3	3.3	30	2.0	2.0	100m			12	10m§	50m	10mΔ		07	F149	CN10p	
33	uA78M15CKC	15	4.0	4.0	30	2.0	2.0	500m			12	100m§	495m	300mΔ	54	0C	F161	Y220b	
34	uA79M15CKC	15	4.0	4.0	30	2.0	2.0	500m			12	80m§	495m	240mΔ	50	0C	F163	Y220b	
35	uA7815CKC	15	4.0	4.0	30		2.0	1.5	19m†	1.0m†	12	300m§	1.4	300mΔ	54	0C	F165a	Y220b	
36	uA7915CKC	15	4.0	4.0	30		2.0	1.5	1.0m†	1.0m†	12	300m§	1.4	300mΔ	54	0C	F162a	Y220b	
37	MC1468R	15	14	20	30	2.0	2.4	100m			12	10m§	50m	10mΔ	75 †	07	F098a	CN30	
38	MC1568R	15	14	20	30	2.0	2.4	100m			12	10m§	50m	10mΔ	75 †	5C	F098a	CN30	
39	XR1495CK	15	14	15	30	3.0	2.4	150m		15mΔ	20m	10m§	30m	75 †	0C	F172b	CN0		
40	uA7815CKA	15	4.0	4.0	30		3.5	1.5	19m†	1.0m†	12	300m§	1.4	300mΔ	54	0C	F091	TO3	
41	uA7815MKA	15	4.0	4.0	30		3.5	1.5	19m†	1.0m†	12	150m§	1.4	150mΔ	60	5C	F091	TO3	
42	uA7915CKA	15	4.0	4.0	30		3.5	1.5		1.0m†	12	300m§	1.4	300mΔ	54	0C	F162	TO3	
43	uA7915MKA	15	4.0	4.0	30		3.5	1.5		1.0m†	12	150m§	1.4	150mΔ	54	5C	F162	TO3	
44	NE5554F	15	6.0	6.0	32	20 *	100m			1.0m	10	300m§	49m	50mΔ		0C	F200	DL14aw	
45	SE5554F	15	6.0	6.0	32	20 *	100m			1.0m	10	150m§	49m	25mΔ		5F	F200	DL14aw	
46	NE5554T	15	600m§	600m§	32	2.5	650m	300m		1.0m†	10	300m§	199m	200mΔ		0C	F200a	TO99	
47	SE5554T	15	600m§	600m§	32	2.5	650m	300m		1.0m†	10	150m§	199m	100mΔ		5F	F200a	TO99	
48	NE5554N	15	600m§	600m§	32	2.5	1.1	300m		1.0m†	10	300m§	199m	200mΔ		0C	F200	DL14aw	
49	SE5554N	15	600m§	600m§	32	2.5	1.1	300m		1.0m†	10	150m§	199m	100mΔ		5F	F200	DL14aw	
50	79M15CDB	15	600m§	600m§	35	1.1	500m			1.0m†	12	80m§	495m	240mΔ	50	08	F163b	CN40	
51	79M15CU	15	600m§	600m§	35	1.1	500m			1.0m†	12	80m§	495m	240mΔ	50	08	F163	Y220b	
52	79M15DB	15	600m§	600m§	35	1.1	500m			1.0m†	12	80m§	495m	240mΔ	50	5C	F163b	CN40	
53#	L7815CT	15			35					19m†	1.0m†	150m		300mΔ		0F	F220	TO3	
54#	L7815CV	15			35					19m†	1.0m†	150m		300mΔ		5F	F220	Y220	
55#	L7815T	15			35					19m†	1.0m†	75m		150mΔ		5F	F220	TO3	
56	LM78L15ACH	15	5.0	5.0	35			100m			12	250m§	99m	150mΔ	37	07	F148	CN38d	
57	LM78L15ACZ	15	4.0	4.0	35			100m		5.0 %	13	250m§	99m	150mΔ	37	07	F148	TO92	
58	LM78L15CH	15	4.0	4.0	35			100m			12	300m§	99m	150mΔ	33	07	F148	CN38d	
59	LM78L15CZ	15	4.0	4.0	35			100m		10 %	13	250m§	99m	150mΔ	37	07	F148	TO92	
60	LM79M15CP	15	4.0	4.0	35			500m			13	300m§	495m	300mΔ	69 †	07	F194	MT4	
61	LM78M15CP.TB	15	4.0	4.0	35			0.5			13	300m§	495m	300mΔ	69 †	07	F194	MT6	
62	LM79L15ACZ	15	4.0	4.0	35			100n	5.0 %		13	45mΔ	99m	125mΔ	50	07	F201	TO92	
63	LM79M15ACH	15	4.0	4.0	35			500m			12	80m§	495m	240mΔ		0C	F187	CN38d	
64	LM79M15ACP	15	4.0	4.0	35			500m			12	80m§	495m	240mΔ		0C	F187	MT4	
65	LM341P15TB	15			35						13	150m§	495m	300mΔ	69 †	07	F194	Y202	
66	LM342P15	15	4.0	4.0	35			200m			12	300m§	199m	300mΔ	42	07	F151	MT4	
67	LM342P15.TB	15	4.0	4.0	35						13	100m§	249m	150mΔ	32	07	F194	Y202	
68	LM7815CT	15	4.0	4.0	35			1.0	19m†	1.8m†	6.0	75m§	995m	150mΔ	54	07	F150	CN79	
69	LM7815CT	15	4.0	4.0	35			1.0	19m†	1.8m†	6.0	75m§	995m	150mΔ	54	07	F150	MT3	
70	LM7915CK	15	4.0	4.0	35			1.5		1.0m†	12	100m§	1.4	200mΔ	54	07	F152	CN79	
71	LM7915CT	15	4.0	4.0	35			1.5		1.0m†	12	100m§	1.4	200mΔ	54	07	F152	MT3	
72	MC7815ACT	15	2	2	35	2.0		20	19	-1m†	12	150m§	1.5	100mΔ	58 †	0C	F091f	Y220b	
73	MC7815BK	15	4	4	35	2.0		0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68	4E	F091g	CN48	
74	MC7815BT	15	4	4	35	2.0		0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68	4E	F091g	Y220	
75	MC7815K	15	4	4	35	2.0		1.2	19	1.8m†	12	150m§	1.5	150mΔ	60	5E	F091g	CN48	
76	MC7915ACK	15	2.0	2.0	35	2.0				1.0m	12	150m§	500m	75mΔ	60 †	0F	F116	TO3	
77	MC7915ACT	15	2.0	2.0	35	2.0				1.0m	12	150m§	500m	75mΔ	60 †	0F	F116	Y220	
78#	ML7815A	15	6.0	6.0	35	23 *				1.0m	12	300m§	500m	150mΔ	60 †	0F	F091a	Y220b	
79#	SFC2815EC	15	14	15	35	2.0					13	300m§	1.5	300mΔ	60 †	07	F233	Y220b	
80	SFC2815LEC																		

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT. PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE REG		MAX. LOAD REG		MIN RIPPL. REJ. (dB)	MAX TRANSIENT RECOVERY		T C P E	DRAWINGS	
			LOW (V)	HIGH (V)							LINE VOLT. CHG. (%)	OUTPUT VOLT. CHG. (%)	LINE VOLT. CHG. (%)	OUT. VOLT. CHG. (%)		@LINE CHG. (s)	@LOAD CHG. (s)			CKT.	OUT. LINE Δ=MO
1	uA7815UC	15	4.0 %	4.0 %	35		2.1	19m†	1.0m†	12	300m§	1.4	150mΔ	54			OC	F091	MT5	
2	uA7815UV	15	4.0 %	4.0 %	35		2.1	19m†	1.0m†	12	300m§	1.5	150mΔ	54			OC	F091	MT5	
3	uA7915KC	15	4.0 %	4.0 %	35		*	1.5	1.0m†	12	300m§	1.4	300mΔ				0E	F162	TO3	
4	uA7915KM	15	4.0 %	4.0 %	35		*	1.5	1.0m†	12	150m§	1.5	150mΔ				0E	F162	TO3	
5	uA7915UC	15	4.0 %	4.0 %	35		*	1.5	1.0m†	12	300m§	1.4	300mΔ				0E	F162a	MT5	
6	UC7815ACK	15			35		*	1.0		13	15m§	1.4	35mΔ	60			0F		TO3	
7	UC7815ACT	15			35		*	1.0		13	19m§	1.4	50mΔ	60			0C		Y220	
8	UC7815AK	15			35		*	1.0		13	15m§	1.4	35mΔ	60			0C		TO3	
9	UC7815CK	15			35		*	1.0		13	75m§	1.4	80mΔ	54			0F		TO3	
10	UC7815CT	15			35		*	1.0		13	100m§	1.4	120mΔ	54			0C		Y220	
11	UC7815K	15			35		*	1.0		13	75m§	1.4	80mΔ	54			0C		TO3	
12	MC7815ACK	15	2.0 %	2.0 %	35		15m*			13	150m§	3.5m	100mΔ	58			0F	F091	TO3	
13	MC7815AK	15	2.0 %	2.0 %	35		15m*	19m†	1.0m†	13	22m§	3.5m	50mΔ	60			0F	F091	TO3	
14	LM140K-15	15			35		22m*	95m†	1.8m†	150m	12 §	4.0m	150mΔ	60			0C		TO3	
15	LM340K-15	15			35		22m*	95m†	1.8m†	150m	12 §	4.0m	150mΔ	54			0C		TO3	
16	LM140LAH15	15	2.0 %	2.0 %	35	2.3	67m*	100m	200m†	2.0 % †	12	70m§	99m	100mΔ	45			0C	F148	CN40
17	LM340LAH15	15	2.0 %	2.0 %	35	2.3	67m*	100m	200m†	2.0 % †	12	70m§	99m	100mΔ	45			0F	F148	CN40
18	LM340LAZ15	15	2.0 %	2.0 %	35	2.3	67m*	100m	200m†	3.0 % †	13	70m§	99m	100mΔ	45			07	F148	TO92
19	ML78L15	15	1.2 %	1.2 %	35	23 *	500m	40m			10	250m§	39m	75mΔ	33			07	F227	TO92
20	ML78L15A	15	6.0 %	6.0 %	35	23 *	500m	40m			10	250m§	39m	75mΔ	34			07	F227	TO92
21	LM320LZ15	15	4.0 %	4.0 %	35		0.6 *	100m			13	40mΔ	249m	150mΔ	54			07	F201	TO92
22	ML78P15	15			35		1.7	650m			13	300m§	99m	150mΔ	33			0C	F226	Y237
23	ML78P15A	15			35		1.7	650m			13	300m§	99m	150mΔ	34			0C	F226	Y237
24	78L15ACS	15	5.0 %	5.0 %	35		1.7	700m	100m		10	250m§	99m	150mΔ	34			0C	F175a	TO92
25	78L15CS	15	10 %	10 %	35		1.7	700m	100m		10	250m§	99m	150mΔ	33			0C	F175a	TO92
26	MC78L15ACP	15	5.0 %	5.0 %	35		1.7	700m	100m		12	300m§	99m	150mΔ				0C	F144a	TO92
27	MC78L15CP	15	10 %	10 %	35		1.7	700m	100m		12	300m§	99m	150mΔ				0C	F144a	TO92
28	MC79L15ACP	15	5.0 %	5.0 %	35		1.7	700m	100m		12	300m§	99m	150mΔ				0C	F145a	TO92
29	MC79L15CP	15	10 %	10 %	35		1.7	700m	100m		12	300m§	99m	150mΔ				0C	F145a	TO92
30	uA78L15AS	15	4.0 %	4.0 %	35		1.7	700m*	100m		12	300m§	99m	150mΔ	34			0E	F164	TO92
31	uA78L15S	15	8.0 %	8.0 %	35		2.0	700m*	100m		12	300m§	99m	150mΔ	33			0E	F164	TO92
32	MC78M15CG	15	4.0 %	4.0 %	35		800m	500m		1.0m†	12	100m§	495m	150mΔ	70 †			0C	F091d	MP23
33	TA78L015AP	15	4 %	4 %	35		1.7	0.8	150m									37		TO39
34	TA78L015P	15	6.4 %	6.4 %	35		1.7	0.8	150m		1.3m†	13	300m§	99m	150mΔ	33			37	MP23
35	78L15ACDB	15	5.0 %	5.0 %	35		1.7	850m	100m		10	250m§	99m	150mΔ	34			0C	F175	TO39
36	78L15CDB	15	10 %	10 %	35		1.7	850m	100m		10	250m§	99m	150mΔ	33			0C	F175	TO39
37	78M15CDB	15	4.0 %	4.0 %	35	2.0	850m	500m		1.0m†	12	100m§	495m	300mΔ	54			0E	F091d	TO39
38	78M15DB	15	4.0 %	4.0 %	35	2.0	850m	500m		1.0m†	12	60m§	495m	150mΔ	54			0E	F091d	TO39
39	MC78L15ACG	15	5.0 %	5.0 %	35		1.7	850m	100m		12	300m§	99m	150mΔ				0C	F144	TO39
40	MC78L15CG	15	10 %	10 %	35		1.7	850m	100m		12	300m§	99m	150mΔ				0C	F144	TO39
41	MC79L15ACG	15	5.0 %	5.0 %	35		1.7	850m	100m		12	300m§	99m	150mΔ				0C	F145	TO39
42	MC79L15CG	15	10 %	10 %	35		1.7	850m	100m		12	300m§	99m	150mΔ				0C	F145	TO39
43	JANM38510/10704BXA	15	5.0 %	5.0 %	35	3.5	890m*	500m		3.8m	17	150m§	495m	300mΔ	53			5C	F186	CN40
44	JANM38510/10704BXC	15	5.0 %	5.0 %	35	3.5	890m*	500m		3.8m	17	150m§	495m	300mΔ	53			5C	F186	CN40
45	JANM38510/10704BXC	15	5.0 %	5.0 %	35	3.5	890m*	500m		3.8m	17	150m§	495m	300mΔ	53			5C	F186	CN40
46	JANM38510/10704CXA	15	5.0 %	5.0 %	35	3.5	890m*	500m		3.8m	17	150m§	495m	300mΔ	53			5C	F186	CN40
47	JANM38510/10704CXB	15	5.0 %	5.0 %	35	3.5	890m*	500m		3.8m	17	150m§	495m	300mΔ	53			5C	F186	CN40
48	JANM38510/10704CXC	15	5.0 %	5.0 %	35	3.5	890m*	500m		3.8m	17	150m§	495m	300mΔ	53			5C	F186	CN40
49	uA78L15ADB	15	4.0 %	4.0 %	35		900m*	100m			12	300m§	99m	150mΔ	34			0E	F164	TO39
50	uA78L15DB	15	8.0 %	8.0 %	35		900m*	100m			12	300m§	99m	150mΔ	33			0E	F164	TO39
51	7915CDA	15	600m§	600m§	35	1.1	1.0 *		19m†	1.0m†	12	300m§	1.5	300mΔ	54			08	F162a	Y220b
52	7915CU	15	600m§	600m§	35	1.1	1.0 *		19m†	1.0m†	12	300m§	1.5	300mΔ	54			08	F162a	Y220b
53	7915DA	15	600m§	600m§	35	1.1	1.0 *		19m†	1.0m†	12	150m§	1.5	150mΔ	54			08	F162	TO3
54	TA78015AP	15	5 %	5 %	35	2.0	1.5	1.0										07	F091e	Y220ab
55	78M15CU	15	4.0 %	4.0 %	35	2.0	2.0	500m		1.0m†	12	100m§	495m	300mΔ	54			0E	F091e	Y220b
56	7815CU	15	4.0 %	4.0 %	35	2.0	2.0	1.0		1.0m†	12	300m§	500m	75mΔ	60			0C	F091e	Y220b
57	MC78M15CT	15	4.0 %	4.0 %	35	2.0	2.0	500m		1.0m†	12	100m§	495m	150mΔ	70 †			0C	F091f	Y220b
58	MC7915CT	15	4.0 %	4.0 %	35	2.0	2.0	1.5		1.0m†	12	300m§	1.5	300mΔ	60 †			0C	F116a	Y220b
59	ML7815	15	1.2 %	2.0 %	35	23 *	2.0	500m	95m	1.0	12	300m§	500m	150mΔ	60 †			0F	F091a	Y220
60	SA78M15CU	15	600m§	600m§	35	2.0	2.0 *			1.0m†	12	100m§	495m	150mΔ	54			4C	F091e	Y220b
61	SG140-15P	15	600m§	600m§	35	2.0	2.0 *	1.5		1.0m†	12	150m§	1.5	150mΔ	70 †			5F	F180c	Y220b
62	TL780-15CKC	15			35		2.0	2.0	3.5m	6.2m	13	15m§	500m	45nΔ	60			0F	F242	Y220b
63	uPC78M15H	15	4.0 %	4.0 %	35	2.0	2.0	500m		1.0m†	12	100m§	495m	300mΔ	54	1.0u†	1.0u†	2B	F165a	Y220b
64	MC7815CK	15	4.0 %	4.0 %	35	2.0	2.5	1.5	95m†	1.0m†	12	300m§	1.5	300mΔ	60 †			0C	F091g	CN48
65	MC7815CT	15	4.0 %	4.0 %	35	2.0	2.5	1.5		1.0m†	12	300m§	1.5	300mΔ	60 †			0C	F091f	Y220b
66	MC7915CK	15	4.0 %	4.0 %	35	2.0	2.5	1.5		1.0m†	12	300m§	1.5	300mΔ	60 †			0C	F116	TO3
67	7815CDA	15	4.0 %	4.0 %	35	2.0	3.5	1.0		1.0m†	12	300m§	500m	75mΔ	60			0C	F091g	TO3
68	7815DA	15	4.0 %	4.0 %	35	2.0	3.5	1.0		1.0m†	12	150m§	500m	75mΔ	60			0E	F091g	TO3
69	JANM38510/10708BYC	15	5.0 %	5.0 %	35	3.5	3.6 *	1.0		3.8m	17	150m§	995m	300mΔ	53			5C	F186b	TO3
70	JANM38510/10708CYA	15	5.0 %	5.0 %	35	3.5	3.6 *	1.0		3.8m	17	150m§	995m	300mΔ	53			5C	F186b	TO3
71	JANM38510/10708CYC	15	5.0 %	5.0 %	35	3.5	3.6 *	1.0		3.8m	17	150m§	995m	300mΔ	53			5C	F186b	TO3
72	LM320MLP15	15	5.0 %	5.0 %	35	3.5	3.6 *	2.5m		3.8m	17	150m§	995m	300mΔ	53			0C	F186b	TO3
73	LM320MP15	15	4.0 %	4.0 %	35	2.5	7.5 *	500m			12	40m§	249m	150mΔ	54			07	F201a	MT4
74	LM341P15	15	4.0 %	4.0 %	35															

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4] TYPE No.	1] NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		2] MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	3] MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE CHG. (ΔV)	REG. OUTPUT VOLT. CHG. (%)	MAX LOAD CUR. (A)	OUT. VOLT. CHG. (%)	MIN RIPPLE REJ. (dB)	MAX TRANSIENT RECOVERY		T E O P M D	C O K T.	DRAWINGS OUT-LINE Δ=MO		
			LOW (V)	HIGH (V)												@LINE CHG. (s)	@LOAD CHG. (s)					
1	MC7815CT	15			40					3.0m	22	55m	2.5m	30mΔ	55			F241	Y220			
2	MC7815K	15			40					3.0m	22	55m	2.5m	30mΔ	55			5C	F241	TO3		
3	LM304L	15	35m	30	40	2.0	500m	20m		1.0%	4.0	100m	20m	5.0mΔ	74	+		07	F002	CN10n		
4#	SFC2304	15	35m	30	40	2.0	500m			1.0m	4.0	100m	20m	5.0mΔ	60			07	F002	TO100		
5	SG304T	15	35m	30	40	2.0	500m	25m		1.0%	4.0	100m	20m	5.0mΔ	60			07	F002	TO100		
6	uPC142A	15	30	35m	40	2.0	500m	50m		1.0%	4.0	100m	20m	5.0mΔ	60			28	F002	CN10e		
7	SA7815CDA	15	600m	600m	40	2.0	1.0		19mt	1.0mt	12	300m	1.5	150mΔ	60			48	F091c	TO3		
8	SA7815CU	15	600m	600m	40	2.0	1.0		19mt	1.0mt	12	300m	1.5	150mΔ	60			48	F091c	Y220b		
9	SG7915ACT	15			40	3.0	Δ	50		.90m	13	50m	495m	40mΔ	60	+		0C	F187	TO39		
10	SG7915AT	15			40	3.0	Δ	50		.90m	13	25m	495m	25mΔ	60	+		5F	F187	TO39		
11	uA7815CDA	15	600m	600m	40	2.0	1.0	*		1.0mt	12	300m	1.5	150mΔ	60			48	F091c	TO3		
12	uA7815CU	15	600m	600m	40	2.0	1.0	*		1.0mt	12	300m	1.5	150mΔ	60			48	F091c	Y220b		
13	uA7815DA	15	600m	600m	40	2.0	1.0	*		1.0mt	12	300m	1.5	150mΔ	60			5C	F091c	TO3		
14	LM120H15	15	2.0%	2.0%	40	2.0	2.0		200m	1.0	18	150m	195m	25mΔ				5C	F109	CN38d		
15	LM320H15	15	2.6%	2.6%	40	2.0	2.0		200m	1.0	18	20m	195m	40mΔ				5C	F109	CN38d		
16	SG220-15P	15	300m	300m	40	2.0	2.0	*	2.2	1.0mt	13	10m	1.5	80mΔ	54			2F	F187	Y220b		
17	SG7915ACP	15			40	3.0	2.0	*	1.0	.90m	13	50m	50	40mΔ	60	+		0C	F187	Y220		
18	SG7915P	15	600m	600m	40	2.0	2.0	*	2.2	1.0mt	17	150m	1.5	150mΔ	54			5F	F187	Y220b		
19#	TDB2915CM	15	2.0%	2.0%	40	3.0	2.0		200m		18	20m	195m	40mΔ				07	F187	TO39		
20#	TDC2915CM	15	2.0%	2.0%	40	3.0	2.0		200m		18	10m	195m	25mΔ				5C	F187	TO39		
21	SG7915ACR	15			40	3.0	3.0			.90m	13	50m	50	40mΔ	60	+		0C	F187	TO66		
22	SG7915AR	15			40	3.0	3.0			.90m	13	25m	50	40mΔ	60	+		5F	F187	TO66		
23	SG7915ACK	15			40	3.0	4.3		1.5	.90m	13	50m	50	40mΔ	60	+		0C	F187	TO3		
24	SG7915AK	15			40	3.0	4.3		1.5	.90m	13	25m	50	40mΔ	60	+		5F	F187	TO3		
25	LAS15A15	15			40	3.0	Δ	15	3.5	.03	Δ	10	2.0	1.4	60			5F	F182	TO3		
26	LAS1415	15	5.0%	5.0%	40	2.5	15		1.5		15	2.0	1.5	60m	58			5E	F166	CN48b		
27	LAS1515	15	5.0%	5.0%	40	2.4	15		1.5		15	2.0	1.4	60m	58			5E	F168	CN48b		
28	LAS1815	15	5.0%	5.0%	40	2.1	15		1.5		15	2.0	1.4	60m	59			5E	F169	CN48b		
29	LM120K15	15	2.0%	2.0%	40	2.0	2.0		1.0		18	10m	995m	80mΔ				5C	F109	TO3		
30	LM320K15	15	2.6%	2.6%	40	2.0	2.0		1.0		18	20m	995m	80mΔ				5C	F109	CN48a		
31	LM320KC15	15	2.6%	2.6%	40	2.0	2.0	*	1.0		18	20m	995m	80mΔ	56			0C	F152a	CN79		
32#	TDB2915KM	15	2.0%	2.0%	40	3.0	2.0		1.0		18	20m	995m	80mΔ				07	F152a	TO3		
33#	TDB2915SP	15	2.0%	2.0%	40	3.0	2.0		1.0		18	20m	995m	80mΔ				07	F152a	Y220a		
34#	TDC2915KM	15	2.0%	2.0%	40	3.0	2.0		1.0		18	10m	995m	80mΔ				5C	F152a	TO3		
35	SG3501AN	15	3.3%	3.3%	50	2.0	600m	200m		300m	33	20m	50m	30mΔ	75	+		07	F157	DL14u		
36	SG3501AT	15	3.3%	3.3%	50	2.0	680m	200m		300m	33	20m	50m	30mΔ	75	+		07	F157	TO100		
37	SG3501AJ	15	3.3%	3.3%	50	2.0	1.0			300m	33	20m	50m	30mΔ	75	+		07	F157	TO116		
38	SG2501AN	15	4.0%	4.0%	60	2.0	600m	200m		300m	43	10m	50m	10mΔ	75	+		07	F097	DL14u		
39	SG4501N	15	5.0%	5.0%	60	2.0	600m	100m		300m	43	10m	50m	10mΔ	75	+		07	F097	DL14u		
40	SG1501AT	15	4.0%	4.0%	60	2.0	680m	200m		300m	43	67m	50m	10mΔ	75	+		5C	F157	TO100		
41	SG2501AT	15	4.0%	4.0%	60	2.0	680m	200m		300m	43	67m	50m	10mΔ	75	+		07	F157	TO100		
42	SG4501T	15	5.0%	5.0%	60	2.0	680m	100m		300m	43	10m	50m	10mΔ	75	+		07	F097	TO100		
43	SG1501AJ	15	4.0%	4.0%	60	2.0	1.0			300m	43	10m	50m	10mΔ	75	+		5C	F157	TO116		
44	SG2501AJ	15	4.0%	4.0%	60	2.0	1.0			300m	43	10m	50m	10mΔ	75	+		07	F157	TO116		
45	SG4501J	15	5.0%	5.0%	60	2.0	1.0			300m	43	10m	50m	10mΔ	75	+		07	F097	TO116		
46	78MHV15CDB	15	600m	600m	60	2.0	4.0	*	500m	1.0mt	12	100m	500m	150mΔ	54		300n	7.0u	08	F207	TO39	
47	78MHV15CDB	15	600m	600m	60	2.0	4.0	*	500m	1.0mt	12	100m	500m	150mΔ	54		300n	7.0u	08	F207	TO39	
48	78MHV15CU	15	600m	600m	60	2.0	5.0	*	500m	1.0mt	12	100m	500m	150mΔ	54		300n	7.0u	08	F207	Y220b	
49	78MHV15DB	15	600m	600m	60	2.0	5.0	*	500m	1.0mt	12	60m	500m	150mΔ	54		300n	7.0u	08	F207	TO39	
50	78MHV15CU	15	600m	600m	60	2.0	5.0	*	500m	1.0mt	12	100m	500m	150mΔ	54		300n	7.0u	08	F207	Y220b	
51	78HV15CDA	15	600m	600m	60	2.0	1.5	*	1.0	19mt	12	300m	1.5	300mΔ	54		300n	7.0u	08	F207	TO3	
52	78HV15CU	15	600m	600m	60	2.0	1.5	*	1.0	19mt	12	300m	1.5	300mΔ	54		300n	7.0u	08	F207	Y220b	
53	78HV15DA	15	600m	600m	60	2.0	1.5	*	1.0	19mt	12	150m	1.5	150mΔ	60		300n	7.0u	08	5C	F207	TO3
54	SA78HV15CDA	15	600m	600m	60	2.0	1.5	*	1.0	19mt	12	300m	1.5	150mΔ	60		300n	7.0u	08	48	F207	TO3
55	SA78HV15CU	15	600m	600m	60	2.0	1.5	*	1.0	19mt	12	300m	1.5	150mΔ	60		300n	7.0u	08	48	F207	Y220b
56	LM320MP15TB	15			-25		7.5	*	500m	-1mt	25	30m	5.0m	100mΔ				0C	F187	TO202		
57	LM79M15CH	15			-35			*		-1mt	10	50m	495m	240mΔ	54			0C	F187	TO39		
58	LM79M15CP	15			-35			*		-1mt	10	50m	495m	240mΔ	54			0C	F187	Y202		
59	LM79M15CPTB	15			-35			*		-1mt	10	50m	495m	240mΔ	54			0C	F187	Y202		
60	UC7915ACK	15			-35			*	1.5		18	20m	1.4	80mΔ	56			5F	F187	TO3		
61	UC7915ACT	15			-35			*	1.5		18	30m	1.4	80mΔ	56			5F	F187	Y220		
62	UC7915AK	15			-35			*	1.5		18	20m	1.4	80mΔ	56			5F	F187	TO3		
63	UC7915CK	15			-35			*	1.5		-18	100m	1.4	150mΔ	56			5F	F187	TO2		
64	UC7915CT	15			-35			*	1.5		-18	100m	1.4	300mΔ	56			5F	F187	Y220		
65	UC7915K	15			-35			*	1.5		-18	100m	1.4	150mΔ	56			0C	F187	TO3		
66	LM320MLP15TB	15			-35		7.5	*	250m		13	40m	249m	150mΔ	54			07	F187	Y202		
67	LAS39U	16			25	20	80		8.0	.03	Δ	2.0	7.9	60				5F	F182a	TO3		
68#	SFC2376DC	16	5.0	27	30	3.0	400m	25m		20m	18	400mΔ	25m	1.5	50			07	F070	DL8a		
69	RC194DB	16	5.0m	32	35	3.0	625m	100m		1.0		100m	99m	4.0	*	70		0C	F096a	DL14v		
70	SG4194CJ	16	100m	32	35	3.0	1.0		100m	15mΔ	100m	99m	4.0	*	70	+		0C	F171a	TO116		
71	SG4194CR	16	100m	32	35	3.0	3.0		200m	15mΔ	100m	199m	4.0	*	70	+		0C	F171a	CN30		
72	uA79MGCH	16	2.2	30	40	2.3			500m	400u	17	1.0	495m	1.0	54			0F	F140	CN0		
73	uA79MGH	16	2.2	30	40	2.5			500m	400u	17	1.0	495m	1.0	54			5F	F140	CN0		
74	uA79MGHM	16	2.2	30	40				500m	300u	17	1.0	495m	1.0	50			5E	F140	CN64b		
75	uA79MGU1C	16	2.2	30	40				500m	300u	17	1.0	495m	1.0	50							

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		2 | MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	3 | MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG		MAX LOAD REG		MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY		T E O M D P E	C K T.	DRAWINGS OUT-LINE Δ=MO	
			LOW (V)	HIGH (V)							LINE VOLT. CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	LOAD CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)		@LINE CHG. (s)	@LOAD CHG. (s)				
1#	LM105AJG	17	4.5	40	50	3.0	800m	12m			10	30mΔ	12m	50m				5C	F003	DL8v	
2#	LM105AP	17	4.5	40	50	3.0	800m	12m			10	30mΔ	12m	50m				5C	F003	DL8q	
3	LM105JG	17	4.5	40	50	3.0	800m	12m				60mΔ	12m	100m				5C	F003	DL8v	
4	LM205JG	17	4.5	40	50	3.0	800m	12m				30mΔ	12m	50m				28	F003	DL8v	
5	LM205P	17	4.5	40	50	3.0	800m	12m				30mΔ	12m	50m				28	F003	DL8p	
6	LM305AJG	17	4.5	40	50	3.0	800m	45m				60mΔ	45m	400m				07	F003	DL8v	
7	ICL7664/D	18	♦		18			1.0u			13	.03 Δ†							F235	CH62	
8	ICL7663CPA	18			18		200m	1.0u			13	.03 Δ†						07	F234	DL8d	
9	ICL7664CPA	18	♦		18		200m	1.0u			13	.03 Δ†						07	F235	DL8d	
10	ICL7663CTV	18			18		300m	1.0u			13	.03 Δ†						07	F234	TO99	
11	ICL7664CTV	18	♦		18		300m	1.0u			13	.03 Δ†						07	F235	TO99	
12	LM340-18KC	18	3.9 %	3.9 %	33			1.5			12	360m§							F235	Y220b	
13	SG140-18K	18	3.8 %	3.8 %	33	21 *	* 1.5		22 †	1.2m†	12	180m§	1.4	180mΔ	69 †			5F	F091	TO3	
14	SG140-18R	18	3.8 %	3.8 %	33	21 *	* 1.5			1.2m†	12	180m§	1.4	180mΔ	69 †			5F	F091	TO66	
15	SG140-18T	18	3.8 %	3.8 %	33	21 *	* 500m		22 †	1.2m†	12	180m§	495m	90mΔ	69 †			5F	F091	TO39	
16	SG340-18K	18	3.8 %	3.8 %	33	21 *	* 1.5		22 †	1.2m†	12	360m§	1.4	360mΔ	69 †			0C	F091	TO3	
17	SG340-18P	18	3.8 %	3.8 %	33	21 *	* 1.5			1.2m†	12	360m§	1.4	360mΔ	69 †			0C	F091	Y220b	
18	SG340-18R	18	3.8 %	3.8 %	33	21 *	* 1.5			1.2m†	12	360m§	1.4	360mΔ	69 †			0C	F091	TO66	
19	SG340-18T	18	3.8 %	3.8 %	33	21 *	* 500m		22 †	1.2m†	12	360m§	495m	180mΔ	69 †			0C	F091	TO39	
20	SG7818ACK	18	1.7 %	1.7 %	33	21 *	* 1.5			1.2m	12	180m§	1.5	180mΔ	69 †			0C	F180b	TO3	
21	SG7818ACP	18	1.7 %	1.7 %	33	21 *	* 1.5			1.2m	12	180m§	1.5	180mΔ	69 †			0C	F180c	Y220b	
22	SG7818ACR	18	1.7 %	1.7 %	33	21 *	* 1.5			1.2m	12	180m§	1.5	180mΔ	69 †			0C	F180	TO66	
23	SG7818ACT	18	1.7 %	1.7 %	33	21 *	* 500m			1.2m	12	180m§	495m	90mΔ	69 †			0C	F180a	TO39	
24	SG7818AK	18	1.7 %	1.7 %	33	21 *	* 1.5			1.2m	12	90m§	1.5	120mΔ	69 †			5E	F180b	TO3	
25	SG7818AR	18	1.7 %	1.7 %	33	21 *	* 1.5			1.2m	12	90m§	1.5	120mΔ	69 †			5E	F180	TO66	
26	SG7818AT	18	1.7 %	1.7 %	33	21 *	* 500m			1.2m	12	90m§	495m	60mΔ	69 †			5E	F180a	TO39	
27	SG7818CK	18	3.8 %	3.8 %	33	21 *	* 1.5		22 †	1.0m†	12	360m§	1.4	360mΔ	69 †			0C	F091	TO3	
28	SG7818CP	18	3.8 %	3.8 %	33	21 *	* 1.5			1.2m†	12	360m§	1.4	360mΔ	69 †			0C	F091	Y220b	
29	SG7818CR	18	3.8 %	3.8 %	33	21 *	* 1.5			1.2m†	12	360m§	1.4	360mΔ	69 †			0C	F091	TO66	
30	SG7818CT	18	3.8 %	3.8 %	33	21 *	* 500m		22 †	1.2m†	12	360m§	495m	180mΔ	69 †			0C	F091	TO39	
31	SG7818K	18	3.8 %	3.8 %	33	21 *	* 1.5		22 †	1.2m†	12	180m§	1.4	180mΔ	69 †			5E	F091	TO3	
32	SG7818R	18	3.8 %	3.8 %	33	21 *	* 1.5			1.2m†	12	180m§	1.4	180mΔ	69 †			0F	F091	TO66	
33	SG7818T	18	3.8 %	3.8 %	33	21 *	* 500m		22 †	1.2m†	12	180m§	495m	90mΔ	69 †			5E	F091	TO39	
34#	L78M18	18	17	18	33	2.0	1.2	500m			13	5.0m†§	195m	180mΔ	53			17	F231	Y220a	
35#	L78N18	18	17	18	33	2.0	1.2	500m			13	5.0m†§	195m	180mΔ	53			17	F231	MT55	
36	uA7818CKC	18	3.8 %	3.8 %	33		2.0	1.5	22m†	1.0m†	12	360m§	1.4	360mΔ	53			0C	F165a	Y220b	
37	uA7818CKC	18	♦	3.8 %	3.8 %	33	2.0	1.5		1.0m†	12	360m§	1.4	360mΔ	54			0C	F162a	Y220b	
38	uA7818CKA	18	3.8 %	3.8 %	33		3.5	1.5	22m†	1.0m†	12	360m§	1.4	360mΔ	53			0C	F091	TO3	
39	uA7818MKA	18	3.8 %	3.8 %	33		3.5	1.5	22m†	1.0m†	12	180m§	1.4	180mΔ	59			5C	F091	TO3	
40	uA7818CKA	18	♦	3.8 %	3.8 %	33		3.5	1.5	1.0m†	12	360m§	1.4	360mΔ	54			0C	F162	TO3	
41	uA7818MKA	18	♦	3.8 %	3.8 %	33		3.5	1.5	1.0m†	12	180m§	1.4	180mΔ	54			5C	F162	TO3	
42#	HA178M18P	18	5.0 %	5.0 %	35			500m		1.0m†	12	100m§						28	F161	Y220b	
43#	L7818CT	18			35			*	22m†	1.0m†	180m			360mΔ				0F	F220	TO3	
44#	L7818CV	18			35			*	22m†	1.0m†	180m			360mΔ				0F	F220	Y220	
45#	L7818T	18			35			*	22m†	1.0m†	90m			180mΔ				5F	F220	TO3	
46	LM340K-18	18		*	35	2.0		* 500m	110m†	2.3m†	12	180m§	1.5	180mΔ	53			5C	F091	CN48	
47	MC7818ACT	18	2 %	2 %	35	2.0		* .20	19	-1m†	12	180m§	1.5	100mΔ	57 †			0C	F091f	Y220b	
48	MC7818BK	18	4 %	4 %	35	2.0		* 0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68			4E	F091g	CN48	
49	MC7818BT	18	4 %	4 %	35	2.0		* 0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68			4E	F091g	Y220b	
50	MC7818K	18	4 %	4 %	35	2.0		* 1.2	19	2.3m†	12	180m§	1.5	180mΔ	59			5E	F091g	CN48	
51#	ML7818A	18	7.0 %	7.0 %	35	27 *		* 500m	110m	1.0m	12	360m§	500m	180mΔ	59 †			0F	F091a	Y220b	
52#	SFC2818EC	18	3.8 %	3.8 %	35	2.0		1.0			12	360m§	1.0	360mΔ	59 †			07	F233	Y220b	
53#	SFC2818RC	18	3.8 %	3.8 %	35	2.0					12	360m§	1.0	360mΔ	59 †			07	F233	TO3	
54	SFC2818RM	18			35	2.0					12	180m§	500m	90mΔ	69 †			5C	F233	TO3	
55	uA7818KC	18	3.8 %	3.8 %	35		2.1		22m†	1.0m†§	12	360m§	1.4	360mΔ	53			0C	F091	TO3	
56	uA7818KM	18	3.8 %	3.8 %	35		2.1		22m†	1.0m†§	12	180m§	1.4	180mΔ	59			5F	F091	TO3	
57	uA7818UC	18	3.8 %	3.8 %	35		2.1		22m†	1.0m†§	12	360m§	1.4	360mΔ	53			0C	F091	MT5	
58	uA7818UV	18	3.8 %	3.8 %	35		2.1		22m†	1.0m†§	12	360m§	1.5	180mΔ	53			28	F091	MT5	
59	MC7818ACK	18	2.0 %	2.0 %	35		15m*		19m†	1.0m†	12	180m§	3.5m	100mΔ	57			0F	F091	TO3	
60	MC7818AK	18	2.0 %	2.0 %	35		15m*		19m†	2.3m†	12	31m§	3.5m	50mΔ	59			5F	F091	TO3	
61	LM140K-18	18			35		22m*		110m†	2.3m†	180m	12 §	4.0m	180mΔ	59			5C	F091	TO3	
62#	ML78P18	18			35	1.7	650m				11	275m§	99m	170mΔ	32			0C	F226	Y237	
63#	ML78P18A	18			35	1.7	650m				12	275m§	99m	170mΔ	32			0C	F226	Y237	
64	MC78L18ACP	18	5.0 %	5.0 %	35	1.7	700m	100m			12	275m§	99m	170mΔ				0C	F144a	TO92	
65	MC78L18CP	18	10 %	10 %	35	1.7	700m	100m			12	325m§	99m	170mΔ				0C	F144a	TO92	
66	MC79L18ACP	18	♦	5.0 %	5.0 %	35	1.7	700m	100m		12	325m§	99m	170mΔ				0C	F145a	TO92	
67	MC79L18CP	18	♦	10 %	10 %	35	1.7	700m	100m		11	275m§	99m	170mΔ				0C	F145a	TO92	
68	MC78M18CG	18	3.8 %	3.8 %	35	2.0	800m	500m		1.0m†	12	100m§	495m	360mΔ	70 †			0C	F091d	TO39	
69	MC78L18ACG	18	5.0 %	5.0 %	35	1.7	850m	100m			12	275m§	99m	170mΔ				0C	F144	TO39	
70	MC78L18CG	18	10 %	10 %	35	1.7	850m	100m			12	325m§	99m	170mΔ				0C	F144	TO39	
71	MC79L18ACG	18	♦	5.0 %	5.0 %	35	1.7	850m	100m		12	325m§	99m	170mΔ				0C	F145	TO39	
72	MC79L18CG	18	♦	10 %	10 %	35	1.7	850m	100m		11	275m§	99m	170mΔ				0C	F145	TO39	
73	7918CDA	18	♦	700m§	700m§	35	1.1	1.0 *		22m†	1.0m†	12	360m§	1.5	360mΔ	54			08	F162	TO3
74	7918CU	18	♦	700m§	700m§	35	1.1	1.0 *		22m†	1.0m†	12	360m§	1.5	360mΔ	54			08	F162a	Y220b
75																					

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4	TYPE No.	1	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE		2	MAX INPUT LINE VOLT (V)	MIN DIFF. (ΔV)	3	MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE VOLT. CHG. (ΔV)	MAX. OUTPUT VOLT. CHG. (%)	MAX. LOAD REG. CHG. (ΔA)	MAX. LOAD REG. OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY		T C O M P E	DRAWINGS
					LOW (V)	HIGH (V)														①LINE (s)	②LOAD (s)		
1		SG7918ACT	18	30			40	30 Δ	1.0	.50				1.0m††	12	50m§	495m	40mΔ	60 †			OC	F187 TO39
2		SG7918AT	18	30			40	30 Δ	1.0	.50				1.0m††	12	25m§	495m	25mΔ	60 †			5F	F187 TO39
3		SG7918CT	18	30			40	30 Δ	1.0	.50				1.0m††	12	80m§	495m	30mΔ	60 †			OC	F187 TO39
4		SG7918T	18	30			40	30 Δ	1.0	.50				1.0m††	12	180m§	495m	150mΔ	60 †			5F	F187 TO39
5		uA7818CDA	18	700m§	700m§		40	2.0	1.0 *			22m†	1.0m†	12	360m§	1.5	360mΔ	53			08	F091c TO3	
6		uA7818CU	18	700m§	700m§		40	2.0	1.0 *			22m†	1.0m†	12	360m§	1.5	360mΔ	53			08	F091c Y220b	
7		uA7818DA	18	700m§	700m§		40	2.0	1.0 *			22m†	1.0m†	12	180m§	1.5	180mΔ	59			5C	F091c TO3	
8		TA78018AP	18	5	5		40	2.0	1.5	1.0			1.0m††	12	50m§	.50	40mΔ	60 †			37	F091e Y220ab	
9		SG320-18P	18				40	30 Δ	2.0	1.0			1.0m††	12	50m§	.50	40mΔ	60 †			OC	F187 Y220	
10		SG7918ACP	18	30			40	30 Δ	2.0	1.0			1.0m††	12	50m§	.50	40mΔ	60 †			OC	F187 Y220	
11		SG7918CP	18	30			40	30 Δ	2.0	1.0			1.0m††	12	80m§	.50	180mΔ	60 †			OC	F187 Y220	
12		SG120-18R	18	30			40	30 Δ	3.0	1.5			1.0m†*	12	25m§	.50	40mΔ	60 †			5F	TO66	
13		SG7918ACR	18	30			40	30 Δ	3.0	1.5			1.0m††	12	50m§	.50	40mΔ	60 †			OC	F187 TO66	
14		SG7918AR	18	30			40	30 Δ	3.0	1.5			1.0m††	12	25m§	.50	40mΔ	60 †			5F	F187 TO66	
15		SG7918CR	18	30			40	30 Δ	3.0	1.5			1.0m††	12	80m§	.50	180mΔ	60 †			OC	F187 TO66	
16		SG7918R	18	30			40	30 Δ	3.0	1.0			1.0m††	12	180m§	.50	90mΔ	60 †			5F	F187 TO66	
17		SG120-18K	18	30			40	30 Δ	4.3	1.5			1.0m†*	12	25m§	.50	40mΔ	60 †			5F	TO3	
18		SG320-18K	18	30			40	30 Δ	4.3	1.5			1.0m†*	12	50m§	.50	40mΔ	60 †			OC	TO3	
19		SG7918ACK	18	30			40	30 Δ	4.3	1.5			1.0m††	12	50m§	.50	40mΔ	60 †			OC	F187 TO3	
20		SG7918AK	18	30			40	30 Δ	4.3	1.5			1.0m††	12	25m§	.50	40mΔ	60 †			5F	F187 TO3	
21		SG7918CK	18	30			40	30 Δ	4.3	1.5			1.0m††	12	80m§	.50	180mΔ	60 †			OC	F187 TO3	
22		SG7918K	18	30			40	30 Δ	4.3	1.0			1.0m††	12	180m§	.50	90mΔ	60 †			5F	F187 TO3	
23		LAS1518	18	5.0 %	5.0 %		40	2.4	1.5	1.5			1.5	2.0	1.4	600m	58			5E	F168 CN48b		
24		LAS1818	18	5.0 %	5.0 %		40	2.1	1.5	1.5			1.5	2.0	1.4	600m	59			5E	F169 CN48b		
25		SG320-18R	18				40	30 Δ	300	1.5			1.0m††	12	50m§	.50	40mΔ	60 †			OC	TO66	
26		LM105P	18	4.5	40		50	3.0	800m	12m				5.0	60mΔ	45m	200m		5.0u	5.0u	5F	F003 DL14y	
27		LM305AP	18	4.5	40		50	3.0	800m	45m				5.0	60mΔ	45m	200m		5.0u	5.0u	07	F003 DL14y	
28		78MHV18CU	18	700m§	700m§		60	2.0	5.0 *	500m			1.1m†	12	100m§	500m	400mΔ	53	300m	7.0u	08	F207 Y220b	
29		SA78MHV18CU	18	700m§	700m§		60	2.0	5.0 *	500m			1.1m†	12	100m§	500m	400mΔ	53	300m	7.0u	08	F207 Y220b	
30		78HV18CDA	18	700m§	700m§		60	2.0	15 *	1.0		22m†	1.0m†	12	360m§	1.5	360mΔ	53	300m	7.0u	08	F207 TO3	
31		78HV18CU	18	700m§	700m§		60	2.0	15 *	1.0		22m†	1.0m†	12	360m§	1.5	360mΔ	53	300m	7.0u	08	F207 Y220b	
32		78HV18DA	18	700m§	700m§		60	2.0	15 *	1.0		22m†	1.0m†	12	180m§	1.5	180mΔ	59	300m	7.0u	5C	F207 TO3	
33		SA78HV18CDA	18	700m§	700m§		60	2.0	15 *	1.0		22m†	1.0m†	12	360m§	1.5	360mΔ	59	300m	7.0u	4B	F207 TO3	
34		SA78HV18CU	18	700m§	700m§		60	2.0	15 *	1.0		22m†	1.0m†	12	360m§	1.5	360mΔ	59	300m	7.0u	4B	F207 Y220b	
35		LM317LZ	19	1.2	37		3.0			100m				37	40mΔ	95m	500m	65 †			0C	F208a TO92	
36		SG117R	19	1.2	37					*				37	50mΔ	1.5	300m	66			2E	F166 TO66	
37		SG217R	19	1.2	37					*				37	50mΔ	1.5	300m	66			5E	F166 TO66	
38		SG317R	19	1.2	37					*				37	70mΔ	1.5	500m	66			0C	F166 TO66	
39		uA117KM	19	1.2	37		2.5			1.5			700m%†	37	50 Δ	1.5	1.0	65 †	5.0u†	5.0u†	5E	F166a TO3	
40		uA217UV	19	1.2	37		2.5			1.5			700m%†	37	50 Δ	1.5	1.0	65 †	5.0u†	5.0u†	2E	F166b TO220	
41		uA317KC	19	1.2	37		2.5			1.5			700m%†	37	70 Δ	1.5	1.5	65 †	5.0u†	5.0u†	0B	F166a TO3	
42		uA317UC	19	1.2	37		2.5			1.5			700m%†	37	70 Δ	1.5	1.5	65 †	5.0u†	5.0u†	0B	F166b TO220	
43		uPC7912H	19							1.0		70m	.80m††	16	240m§	3.5m	240mΔ	54			OC	Y220AB	
44		SG117T	19	1.2	37		5.0	1.0 *	500m					37	50mΔ	490m	300m	66			5E	F178b TO39	
45		SG217T	19	1.2	37		5.0	1.0 *	500m					37	50mΔ	490m	300m	66			2E	F178b TO39	
46		SG317T	19	1.2	37		5.0	1.0 *	500m					37	70mΔ	490m	500m	66			OC	F178b TO39	
47		LM117H	19	1.2	37		2.0	2.0 *	500m		10m†	700m%†	37	50mΔ	490m	1.0	66	5.0u†	5.0u†	5F	F166 TO39		
48		LM117LH	19	1.2	37		40 Δ	2.0	5m					37	02	3	15m	66			5F	F208 TO39	
49		LM217H	19	1.2	37		2.0	2.0 *	500m		10m†	700m%†	37	50mΔ	490m	1.0	66	5.0u†	5.0u†	2F	F166 TO39		
50		LM217LH	19	1.2	37		40 Δ	2.0	5m					37	02	3	15m	66			2F	F208 TO39	
51		LM317H	19	1.2	37		2.0	2.0 *	500m		10m†	700m%†	37	70mΔ	490m	1.5	66	5.0u†	5.0u†	0C	F166 TO39		
52		LM317LH	19	1.2	37		40 Δ	2.0	10m					37	.04	5	25m	60			0C	F208 TO39	
53		SG117K	19	1.2	37		5.0	4.3 *	1.5					37	50mΔ	1.5	300m	66			5E	F178a TO3	
54		SG217K	19	1.2	37		5.0	4.3 *	1.5					37	50mΔ	1.5	300m	66			2E	F178a TO3	
55		SG317K	19	1.2	37		5.0	4.3 *	1.5					37	70mΔ	1.5	500m	66			OC	F178a TO3	
56		LM117K	19	1.2	37		2.5	20 *	1.5	10m†	700m%†	37	50mΔ	1.5	1.0	66	5.0u†	5.0u†	5E	F166a TO3			
57		LM217K	19	1.2	37		2.5	20 *	1.5	10m†	700m%†	37	50mΔ	1.5	1.0	66	5.0u†	5.0u†	2F	F166a TO3			
58		LM317K	19	1.2	37		2.5	20 *	1.5	10m†	700m%†	37	70mΔ	1.5	1.5	66	5.0u†	5.0u†	0C	F166a TO3			
59		LM317MP	19	1.2	37		2.5	20 *	1.5	10m†	700m%†	37	70mΔ	1.4	1.5	66	5.0u†	5.0u†	OC	F166b MT4			
60		LM317T	19	1.2	37		2.5	20 *	1.5	10m†	700m%†	37	70mΔ	1.5	1.5	66	5.0u†	5.0u†	OC	F166b F166b			
61		uA431HC	19	2.5	36	37		600m	150m	750m				30	300m	9.0m	500m	64			07	F212 TO92	
62		uA431HM	19	2.5	36	37		600m	150m	750m				30	300m	9.0m	500m	64			5C	F212 TO39	
63		uA431WC	19	2.5	36	37		775m	150m	750m				30	300m	9.0m	500m	64			07	F212 TO92	
64		uA431VW	19	2.5	36	37		775m	150m	750m				30	300m	9.0m	500m	64			4B	F212 TO92	
65		JANM38510/10201BIA	19	2.0	37	40	2.5	350m§	85m				15mΔ	30	300m	9.0m	500m	64			5C	F079b CN10e	
66		JANM38510/10201BIB	19	2.0	37	40	2.5	350m§	85m				15mΔ	30	300m	9.0m	500m	64			5C	F079b CN10e	
67		JANM38510/10201BIC	19	2.0	37	40	2.5	350m§	85m				15mΔ	30	300m	9.0m	500m	64			5C	F079b CN10e	
68		JANM38510/10201CIA	19	2.0	37	40	2.5	350m§	85m				15mΔ	30	300m	9.0m	500m	64			5C	F079b CN10e	
69		JANM38510/10201CIB	19	2.0	37	40	2.5	350m§	85m				15mΔ	30	300m	9.0m	500m	64			5C	F079b CN10e	
70		JANM38510/10201CIC	19	2.0	37	40	2.5	350m§	85m				15mΔ										

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT		2 | MAX INPUT LINE VOLT [V]	MIN OUT/IN DIFF. (ΔV)	3 | MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE REG. CHG. (ΔV)	MAX. OUTPUT VOLT. CHG. (%)	MAX. LOAD REG. CUR. (ΔA)	OUT. RIPPL. REJ. (dB)	MIN. RECOVERY @LINE CHG. (s)	MAX. TRANSIENT @LOAD CHG. (s)	T C M D E	O C K T.	DRAWINGS	
			LOW (V)	HIGH (V)																OUTLINE VOLT [V]	IN DIFF. (ΔV)
1#	SFC2723M	19	2.0	37	40	3.0	800m	150m		15m%	28	200mΔ	49m	150m	86 †		5C	F030a	TO100	
2#	TBA281	19	2.0	37	40	3.0	800m	50m		15mΔ	3.0	100m	49m	m	74 †		5C	F030a	CN10f	
3	uA723A	19	2.0	37	40	3.0	800m	150m	50m	15mΔ	28	200m	49m	600m	74 †	5.0u	5.0u	5C	F030	DL14a0
4	uA723CA	19	2.0	37	40	3.0	800m	4.0m		15mΔ	3.0	100m	49m	150m	74 †			07	F079	DL14a0
5	uA723CF	19	2.0	37	40	3.0	800m	150m			28	500m	49m	200m	74 †			07	F079a	DL14bn
6	uA723CL	19	2.0	37	40	3.0	800m	150m			28	500m	49m	200m	74 †			07	F079b	CN10f
7	uA723CN	19	2.0	37	40	3.0	800m	150m			28	500m	49m	200m	74 †			07	F079a	DL14aw
8	uA723F	19	2.0	37	40	3.0	800m	150m			28	200m	49m	150m	74 †			5C	F079a	DL14bn
9	uA723HC	19	2.0	37	40	3.0	800m			15mΔ	28	500m	49m	200m	74 †			07	F079	CN10f
10	uA723HM	19	2.0	37	40	3.0	800m			15mΔ	28	200m	49m	150m	74 †			5C	F079	CN10f
11	uA723L	19	2.0	37	40	3.0	800m	150m			28	200m	49m	150m	74 †			5C	F079b	CN10f
12	uA723ML	19	2.0	37	40	3.0	800m	150m			28	200m	49m	150m	74 †			5C	F167a	CN10q
13	uA723N	19	2.0	37	40	3.0	800m	150m			28	200m	49m	150m	74 †			5C	F079a	DL14aw
14	LM723CJ	19	2.0	37	40	3.0	900m	150m			28	500m	49m	200m	74 †			07	F030	DL14cd
15	LM723J	19	2.0	37	40	3.0	900m	150m			28	200m	49m	150m	74 †			5C	F030	DL14cd
16	RC723DB	19	2.0	37	40	3.0	900m	150m	50m†	15mΔ	28	500m	49m	200m	74 †	5.0u†	5.0u†	07	F030	DL14au
17	RC723DC	19	2.0	37	40	3.0	900m	150m		15mΔ	28	500m	49m	200m	74 †	5.0u†	5.0u†	07	F030	DL14av
18	RC723T	19	2.0	37	40	3.0	900m	150m		15mΔ	28	500m	49m	200m	74 †	5.0u	5.0u	07	F030	TO100
19	RM723DC	19	2.0	37	40	3.0	900m	150m	50m†	15mΔ	28	200m	49m	150m	74 †	5.0u	5.0u	5C	F030	DL14av
20	RM723T	19	2.0	37	40	3.0	900m	150m		15mΔ	28	200m	49m	150m	74 †			5C	F030	TO100
21#	SFC2723EC	19	2.0	37	40	3.0	900m	150m		15m%	28	500mΔ	49m	200m	86 †			07	F030a	TO116
22#	SFC2723EM	19	2.0	37	40	3.0	900m	150m		15m%	28	200mΔ	49m	150m	86 †			5C	F030a	TO116
23	SG723T	19	2.0	37	40	3.0	900m	150m		15mΔ	18	500m	49m	200m	86 †	10u	6.0u	5C	F030	TO100
24	CA723CE	19	2.0	37	40	3.0	1.0	150m		15mΔ	28	500m	49m	200m	74 †			07	F030	Δ001AB
25	CA723F	19	2.0	37	40	3.0	1.0	150m		15mΔ	28	200m	49m	150m	74 †			5C	F030	Δ001AB
26#	HA17723G	19	2.0	37	40	2.0	1.0	150m			28	500m	50m	200m	74 †			27	F167	DL14cs
27	LM304J	19	35m	30	40	2.0	1.0	20m				10mΔ	20m	5.0mΔ				07	F002	DL14ah
28	LM304N	19	35m	30	40	2.0	1.0	20m				10mΔ	20m	5.0mΔ				07	F002	DL14bw
29#	MB3752C	19	2.0	37	40	3.0	1.0	150m		15mΔ	28	500m	49m	600m	74 †			07	F160	DL14bh
30	MC1723CG	19	2.0	37	40	3.0	1.0	150m		02 %	28	50	49m	60	74 †			07	F030	TO100
31	MC1723G	19	2.0	37	40	3.0	1.0	150m		02 %	28	50	49m	60	74 †			5C	F030	TO100
32	SG723CJ	19	2.0	37	40	3.0	1.0	150m		15mΔ	18	500m	49m	200m	86 †	10u	6.0u	07	F030	TO116
33	SG723J	19	2.0	37	40	3.0	1.0	150m		15mΔ	18	500m	49m	200m	86 †	10u	6.0u	5C	F030	TO116
34	uA723CJ	19	2.0	37	40	3.0	1.0	150m			28	500m	49m	200m	74 †			07	F167	DL14ah
35	uA723CN	19	2.0	37	40	3.0	1.0	150m			28	500m	49m	200m	74 †			07	F167	DL14bw
36	uA723DC	19	2.0	37	40	3.0	1.0	150m		15mΔ	28	500m	49m	200m	74 †			07	F079	DL14br
37	uA723DM	19	2.0	37	40	3.0	1.0	150m		15mΔ	28	200m	49m	150m	74 †			5C	F079	DL14br
38	uA723MJ	19	2.0	37	40	3.0	1.0	150m			28	200m	49m	150m	74 †			5C	F167	DL14ah
39	uA723PC	19	2.0	37	40	3.0	1.0	50m			28	500m	49m	200m				07	F079	DL14bz
40	MC1723CP	19	2.0	37	40	3.0	1.2	150m		02 %	28	50	49m	60	74 †			07	F030	DL14az
41	MC1723CL	19	2.0	37	40	3.0	1.5	150m		02 %	28	50	49m	60	74 †			07	F030	TO116
42	MC1723L	19	2.0	37	40	3.0	1.5	150m		02 %	28	50	49m	60	74 †			5C	F030	TO116
43	MC1569R	19	2.5	37	40	2.7	3.0	600m	80m	2.0m†Δ		15mΔ		1.6mΔ	88 †	50n		5C	F193	CN30
44	LM137H	19	1.2	37	42	5.0	2.0 *	500m			37	5.0mΔ	490m	1.0	66			5E	F198	CN38d
45	LM237H	19	1.2	37	42	5.0	2.0 *	500m			37	5.0mΔ	490m	1.0	66			2E	F198	CN38d
46	LM337H	19	1.2	37	42	5.0	2.0 *	500m			37	7.0mΔ	490m	1.5	66			0C	F198	CN38d
47	LM337MP	19	1.2	37	42	5.0	7.5 *	500m			37	7.0mΔ	490m	1.5	66			0C	F198	MT4
48	LM337T	19	1.2	37	42	5.0	15 *	1.5			37	7.0mΔ	1.4	1.5	66			0C	F198	MT3
49	LM137K	19	1.2	37	42	5.0	20 *	1.5			37	5.0mΔ	1.4	1.0	66			5E	F198	CN48a
50	LM237K	19	1.2	37	42	5.0	20 *	1.5			37	5.0mΔ	1.4	1.0	66			2E	F198	CN48a
51	LM337K	19	1.2	37	42	5.0	20 *	1.5			37	7.0mΔ	1.4	1.5	66			0C	F198	CN48a
52#	LM104N	19	15m	40	50	2.0	800m	20m			35	100m	20m	5.0mΔ				5C	F002	DL14x
53	SE550F	19	2.0	37	50	3.0	800m	150m		12mΔ	28	100m	49m	100m	75 †			5C	F080a	DL14bn
54	SE550K	19	2.0	37	50	3.0	800m	150m		100m%	30	150mΔ	50m	150mΔ	74 †			5C	F080	TO100
55	SE550L	19	2.0	37	50	3.0	800m	150m		12mΔ	28	100m	49m	100m	75 †			5C	F080a	CN10f
56	SE550N	19	2.0	37	50	3.0	800m	150m		12mΔ	28	100m	49m	100m	75 †			5C	F080a	DL14aw
57	LM104J	19	15m	40	50	2.0	1.0	20m				10mΔ	20m	5.0mΔ				5C	F002	DL14ah
58	LM204J	19	15m	40	50	2.0	1.0	20m				10mΔ	20m	5.0mΔ				28	F002	DL14ah
59	LM204N	19	15m	40	50	2.0	1.0	20m				10mΔ	20m	5.0mΔ				28	F002	DL14bw
60	SG2502N	19	10	28	60	2.0	600m	100m		300m%†	10	100m	50m	100m	75 †			07	F097	DL14u
61	SG1502J	19	10	28	60	2.0	1.0	100m		300m%†	10	100m	50m	100m	75 †			5C	F097	TO116
62	SG2502J	19	10	28	60	2.0	1.0	100m		300m%†	10	100m	50m	100m	75 †			07	F097	TO116
63	CJSE063	20									11	1.0	3.0	1.0						TO3
64	CJSE064	20									11	1.0	3.0	1.0						TO3
65	uA79M20CLA	20	4.0 %	4.0 %	3		600m	500m			12	80m§	495m	300mΔ	50			0C	F163b	CN40
66	uA79M20MLA	20	4.0 %	4.0 %	3		600m	500m			12	80m§	495m	300mΔ	50			5C	F163b	CN40
67	uA79M20CKD	20	4.0 %	4.0 %	3		1.5	500m			12	80m§	495m	300mΔ	50			0C	F163a	MT7
68	uA79M20CKC	20	4.0 %	4.0 %	3		2.0	500m			12	80m§	495m	300mΔ	50			0C	F163	Y220b
69	RC4195NB	20	0.0	30	30	3.0	600m	150m		15mΔ§	12	20m§	99m	30mΔ	75 †			0C	F139	DL8ab
70	RC4195T	20	0.0	30	30	3.0	800m	150m		15mΔ§	12	20m§	99m	30mΔ	75 †			0C	F139	TO99
71	RM4195T	20	0.0	30	30	3.0	800m	150m		15mΔ§	12	20m§	99m	30mΔ	75 †			5F	F139	TO99
72	RC4195TK	20	0.0	30	30	3.0	2.4	150m		15mΔ§	12	20m§	99m	30mΔ	75 †			0C	F139	CN30
73	RM4195TK	20	0.0	30	30	3.0	2.4	150m		15mΔ§	12	20m§	99m	30mΔ	75 †			5F	F139	CN30
74#	HA178M20P	20	5.0 %	5.0 %	35		600m	500m			12	100m§								

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4	TYPE No.	1	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE		2	MAX. INPUT LINE VOLT |	MIN. OUT/IN (DIFF.) (V)	3	MAX. POWER DISS. @ 25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE REG. CHG. (ΔV)	MAX. OUTPUT CHG. (%)	MAX. LOAD REG. OUT VOLT. CHG. (%)	MIN. RIPPL. REJ. (dB)	MAX. TRANSIENT RECOVERY		T E O	C O	DRAWINGS		
					LOW (V)	HIGH (V)													@LINE CHG. (S)	@LOAD CHG. (S)				M D	E
1		SG7920CP		20			40	35 Δ	2.0		1.0			1.1m†	12	80m§	.50	200mΔ	60 †				F187	220	
2		MC1563G		20	3.6	37	40	1.5	2.4	200m		20m	2.0m†Δ			15mΔ	19m	15mΔ	94 †			5C	F064	CN10b	
3		MC1563R		20	3.6	37	40	1.5	2.4	500m		20m	2.0m†Δ			15mΔ	19m	1.6mΔ	94 †			5C	F064	CN30	
4		SG120-20R		20			40	35 Δ	3.0	1.5			1.1m†	12	25m§	.50	40mΔ	60 †					5C	TO66	
5		SG320-20R		20			40	35 Δ	3.0	1.5			1.1m†	12	50m§	.50	40mΔ	60 †					0C	TO66	
6		SG7920ACR		20			40	35 Δ	3.0	1.5			1.1m†	12	50m§	.50	40mΔ	60 †					0C	TO66	
7		SG7920AR		20			40	35 Δ	3.0	1.5			1.1m†	12	25m§	.50	40mΔ	60 †					5F	F187	TO66
8		SG7920CR		20			40	35 Δ	3.0	1.5			1.1m†	12	80m§	.50	200mΔ	60 †					0C	F187	TO66
9		SG7920R		20			40	35 Δ	3.0	1.5			1.1m†	12	80m§	.50	100mΔ	60 †					5F	F187	TO66
10		SG120-20K		20			40	35 Δ	4.3	1.5			1.0m†	12	25m§	.50	40mΔ	60 †					5F	F187	TO3
11		SG320-20K		20			40	35 Δ	4.3	1.5			1.1m†	12	50m§	.50	40mΔ	60 †					0C	TO3	TO3
12		SG7920ACK		20			40	35 Δ	4.3	1.5			1.1m†	12	50m§	.50	40mΔ	60 †					0C	F187	TO3
13		SG7920AK		20			40	35 Δ	4.3	1.5			1.1m†	12	25m§	.50	40mΔ	60 †					5F	F187	TO3
14		SG7920CK		20			40	35 Δ	4.3	1.5			1.1m†	12	80m§	.50	200mΔ	60 †					0C	F187	TO3
15		SG7920K		20			40	35 Δ	4.3	1.5			1.1m†	12	80m§	.50	100mΔ	60 †					5F	F187	TO3
16		LAS1520		20	5.0 %	5.0 %	40	2.4	15	1.5			1.5	15	2.0	1.4	600m	58					5E	F168	CN48b
17		LAS1820		20	5.0 %	5.0 %	40	2.1	15	1.5			1.5	15	2.0	1.4	600m	59					5E	F169	CN48b
18		LM104H883		20	15m	40	50	2.0	500m§	25m			1.0m%	100m	100m	20m	100m	60	3.0u	3.0u			5C	F002	CN17c
19		LM104H		20	15m	40	50	2.0	500m				5.0	100m	20m	5.0mΔ	60						5C	F002	CN10n
20		LM204H		20	15m	40	50	2.0	500m				5.0	100m	20m	5.0mΔ	60						2C	F002	CN10n
21#		SFC2104M		20	15m	40	50	2.0	500m§				1.0m%	5.0	100m	20m	5.0mΔ	60	3.0ut	3.0ut			5C	F002	TO100
22#		SFC2204		20	15m	40	50	2.0	500m§				1.0m%	5.0	100m	20m	5.0mΔ	60					2C	F002	TO100
23		SG104F		20	15m	40	50	2.0	500m				1.0	4.0	100m	20m	5.0m	60	5.0ut	5.0ut			5C	F002	TO100
24		SG104T		20	15m	40	50	2.0	500m	25m			1.0	4.0	100m	20m	5.0mΔ	60	5.0ut	5.0ut			5C	F002	TO100
25		SG204T		20	15m	40	50	2.0	500m	25m			1.0	5.0	100m	20m	5.0mΔ	60	5.0ut	5.0ut			2B	F002	TO100
26		SG7820AT		20			50	1.0	.50				1.3m†	12	200m§	495m	70mΔ	60 †					2F	F091	TO39
27		SG7820AR		20			50	3.0	1.5				1.3m†	12	200m§	.50	70mΔ	60 †					5F	F091	TO66
28		SG7820AK		20			50	4.3	1.5				1.3m†	12	200m§	.50	70mΔ	60 †					5F	F091	TO3
29		78MHV20CDB		20	800m§	800m§	60	2.0	4.0 *	500m			1.1m†	12	100m§	500m	400mΔ	53	300n	7.0u			08	F207	TO39
30		SA78MHV20CDB		20	800m§	800m§	60	2.0	4.0 *	500m			1.1m†	12	100m§	500m	400mΔ	53	300n	7.0u			08	F207	TO39
31		78MHV20DB		20	800m§	800m§	60	2.0	5.0 *	500m			1.1m†	11	60m§	500m	200mΔ	53	300n	7.0u			5C	F207	TO39
32		SFC2820LEC		21			40	2.0	0.5				1.1m†	11	400m§	195m	200mΔ	58 †					0C	F233	Y220
33		uA376TC		21	5.0	37	40	3.0	450m	25m			1.0m%	12	100mΔ	25m	500m						07	F003	DL8ag
34		NE550F		21	2.0	40	40	3.0	800m	150m			15mΔ	31	300m	49m	200m	75 †					07	F080a	DL14bn
35		NE550N		21	2.0	40	40	3.0	800m	150m			15mΔ	31	300m	49m	200m	75 †					07	F080a	DL14aw
36		SG4194J		21	100m	42	45	3.0	1.0	150m			15mΔ	4.5	100m	199m	2.0m	70 †					07	F171	DL14bk
37		SG4194R		21	100m	42	45	3.0	3.0	250m			15mΔ	4.5	100m	99m	2.0m	70 †					5F	F171	TO66
38		XR4194MK		21	50m	42	45	3.0	3.0	250m		105k	15mΔ	4.2	100m		2.0	70 †					5F	F171	CN0
39		LM105H883		22	4.5	40	30	3.0	500m§	25m			1.0m%	10	60mΔ	25m	100m	80	1.0u	1.0u			5F	F003	CN1a
40		uA78M22CK		22	4.1 %	4.1 %	36	2.5 *	2.0	500m§			1.0m%	12	440m§		12m	50m	80	1.0ut	1.0ut		5C	F003	Y220b
41		uA78M22CKD		22	4.1 %	4.1 %	36	2.5 *	2.0	500m§			1.0m%	12	440m§		12m	50m	80				07	F161a	MT7
42		uA78M22CLA		22	4.1 %	4.1 %	36	2.5 *	2.0	500m§			1.0m%	12	440m§		12m	50m	80				07	F161b	CN40
43		uA7822CKC		22	4.1 %	4.1 %	40	2.5 *	3.5	1.5		28m†	1.3m†	11	440m§	1.5	440mΔ	51					0C	F165a	Y220b
44		uA7822CKA		22	4.1 %	4.1 %	40	2.5 *	3.5	1.5		28m†	1.3m†	11	440m§	1.5	440mΔ	51					0C	F091	Y220b
45		uA7822MKA		22	4.1 %	4.1 %	40	2.5 *	3.5	1.5		28m†	1.3m†	11	220m§	1.5	220mΔ	57					5C	F091	TO3
46#		SFC2105M		22	4.5	40	50	3.0	500m§				1.0m%	12	60mΔ	12m	50m	80	1.0ut	1.0ut			5C	F003	TO99
47#		SFC2205		22	4.5	40	50	3.0	500m§				1.0m%	12	60mΔ	12m	50m	80					2C	F003	TO99
48		uA105HM		22	4.5	40	50	3.0	500m	12m			1.0	12m	60mΔ	12m	100m						5C	F003	TO99
49		uA305AHC		22	4.5	40	50	3.0	500m	45m			1.0	12m	60mΔ	45m	400m						07	F003	TO99
50		LM105F		22	4.5	40	50	3.0	800m				1.0	12m	60mΔ	12m	100m						5C	F003	FP37
51		LM105H		22	4.5	40	50	3.0	800m				1.0	12m	60mΔ	12m	100m						5C	F003	CN1d
52		LM205H		22	4.5	40	50	3.0	800m	12m			1.0	12m	60m	12m	50m						2B	F003	CN1d
53		LM305AH		22	4.5	40	50	3.0	800m				1.0	12m	60mΔ	45m	200m	54 †					07	F003	CN1d
54		uPC7915H		23			50			1.0	70m		1.0m†	12	300m§	3.5m	300mΔ	54					0C	F161	Y220AB
55		CJSE061		24			24						1.0	11	3.0	1.0									TO3
56		CJSE062		24			24						1.0	11	3.0	1.0									TO3
57		RC4193DE		24	2.5	24	24			500m*	150m		0.5	11	0.5	0.5							07	F240	DL8i
58		RC4193NB		24	2.5	24	24			500m*	150m		0.5	11	0.5	0.5							07	F240	DL8bi
59#		L7824CT		24			35			*		28m†	1.5m†	240m		480mΔ							0F	F220	TO3
60#		L7824CV		24			35			*		28m†	1.5m†	240m		480mΔ							5F	F220	Y220
61#		L7824T		24			35			*		28m†	1.5m†	120m		240mΔ							5F	F220	TO3
62		uA78M24U1C		24	23	25	35	1.1 *	1.2	39m			1.2m†	11	.04uΔ	495m	.01uΔ	50					0F	F165a	MT24a
63#		L78M24		24	23	25	35	2.0	1.2	500m			7.0	5.0m†	195m	240mΔ	50					17	F231	Y220a	
64#		L78N24		24	23	25	35	2.0	1.2	500m			7.0	5.0m†	195m	240mΔ	50					17	F231	MT55	
65		MC7824CK		24	4.1 %	4.1 %	35	2.0	2.5	1.5		150m†	1.0m†	11	480m§	1.5	480mΔ	56 †					0C	F091g	CN48
66#		L2024CT		24			37			*			1.9 †			1.0							2F	F222	TO3
67#</																									

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V

(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE (V)		2 | MAX INPUT LINE VOLT |V|	MIN |OUT/ IN| (ΔV)	3 | MAX POWER DISS. @ 25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX. LINE REG. VOLT. CHG. (ΔV)	MAX. OUTPUT VOLT. CHG. (%)	MAX. LOAD REG. CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)	MIN RIPP. REJ. (dB)	MAX TRANSIENT RECOVERY		T C O D P M E	DRAWINGS
			LOW (V)	HIGH (V)												@ LINE CHG. (S)	@ LOAD CHG. (S)		
1	uA7824CKC	24	4.1 %	4.1 %	38		2.0	1.5	28m†	1.5m†	11	480m§	1.4	480mΔ	50			OC F165a	Y220b
2	uA7924CKC	24	4.1 %	4.1 %	38		2.0	1.5	1.0m†	1.0m†	11	480m§	1.4	480mΔ	54			OC F162a	Y220b
3	uA7824CKA	24	4.1 %	4.1 %	38		3.5	1.5	28m†	1.5m†	11	480m§	1.4	480mΔ	50			OC F091	TO3
4	uA7824MKA	24	4.1 %	4.1 %	38		3.5	1.5	28m†	1.5m†	11	240m§	1.4	240mΔ	56			5C F091	TO3
5	uA7924CKA	24	4.1 %	4.1 %	38		3.5	1.5	1.0m†	1.0m†	11	480m§	1.4	480mΔ	54			OC F162	TO3
6	uA7924MKA	24	4.1 %	4.1 %	38		3.5	1.5	1.0m†	1.0m†	11	240m§	1.4	240mΔ	54			5C F162	TO3
7	JANM38510/10709BYA	24	5.0 %	5.0 %	38	28 *	3.6 *	1.0		6.0m	10	240m§	995m	480mΔ	50			5C F186b	TO3
8	JANM38510/10709BYC	24	5.0 %	5.0 %	38	28 *	3.6 *	1.0		6.0m	10	240m§	995m	480mΔ	50			5C F186b	TO3
9	JANM38510/10709CYA	24	5.0 %	5.0 %	38	28 *	3.6 *	1.0		6.0m	10	240m§	995m	480mΔ	50			5C F186b	TO3
10	JANM38510/10709CYC	24	5.0 %	5.0 %	38	28 *	3.6 *	1.0		6.0m	10	240m§	995m	480mΔ	50			5C F186b	TO3
11	79M24CDB	24	5.0 %	5.0 %	38	28 *	3.6 *	1.0	500m	6.0m	10	240m§	995m	480mΔ	50			5C F186b	TO3
12	79M24CU	24	1.0 %	1.0 %	40	1.1		500m	1.0m†	1.0m†	11	80m§	495m	300mΔ	50			5C F163	Y220b
13	79M24DB	24	1.0 %	1.0 %	40	1.1		500m	1.0m†	1.0m†	11	80m§	495m	300mΔ	50			5C F163b	CN40
14#	HA178M24P	24	5.0 %	5.0 %	40			500m	1.2m†	1.2m†	11	100m§						28 F165a	Y220b
15	LM140K-24	24			40	2.0		200m	150m†	3.0m†	11	240m§	1.5	240mΔ	56			5C F165a	CN98
16	LM340K-24	24			40	2.0		200m	150m†	3.0m†	11	240m§	1.5	240mΔ	50			5C F165a	CN48
17	MC78T24CK	24			40					4.8m	13	90m§	2.5m	30mΔ	51			OC F241	TO3
18	MC78T24CT	24			40					4.8m	13	90m§	2.5m	30mΔ	51			5C F241	Y220
19	MC78T24K	24			40					4.8m	13	90m§	2.5m	30mΔ	51			5C F241	TO3
20	MC7824BK	24			40	2.0		0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68			4E F091g	CN48
21	MC7824BT	24	4 %	4 %	40	2.0		0.2	17m†	1.1m†	4	50m§	3.5m	50mΔ	68			4E F091g	Y220
22	MC7824K	24	4 %	4 %	40	2.0		1.2	20	3.0m†	11	240m§	1.5	240mΔ	56			5E F091g	CN48
23#	SFC2824EC	24	4.2 %	4.2 %	40	2.0				480m§	1.0	480m§	1.0	480mΔ	56 †			07 F233	Y220b
24#	SFC2824RC	24	4.2 %	4.2 %	40	2.0				480m§	1.0	480m§	1.0	480mΔ	56 †			07 F233	TO3
25#	TDD1624S	24	23	25	40			500m		1.2m†	11	100m§	495m	480mΔ	50			OC F091	MT6
26	uA78M24HC	24	4.1 %	4.1 %	40			500m		1.2m†	11	100m§	495m	480mΔ	50			0E F165b	TO39
27	uA78M24HM	24	4.1 %	4.1 %	40			500m		1.2m†	11	60m§	495m	240mΔ	50			5E F165b	TO39
28	uA78M24UC	24	4.1 %	4.1 %	40			500m		1.2m†	11	100m§	495m	480mΔ	50			0E F165a	Y220b
29	uA7824KC	24	4.1 %	4.1 %	40			2.1	28m†	1.5m†	11	480m§	1.4	480mΔ	50			OC F091	TO3
30	uA7824KM	24	4.1 %	4.1 %	40			2.1	28m†	1.5m†	11	240m§	1.4	240mΔ	56			5C F091	TO3
31	uA7824UC	24	4.1 %	4.1 %	40			2.1	28m†	1.5m†	11	480m§	1.4	480mΔ	50			OC F091	MT5
32	uA7824UV	24	4.1 %	4.1 %	40			2.1	28m†	1.5m†	11	480m§	1.5	240mΔ	50			28 F091	MT5
33	MC7824ACK	24	2.0 %	2.0 %	40		15m*		20m†	1.5m†	11	240m§	3.5m	100mΔ	54			0F F091	TO3
34	MC7824ACT	24	2.0 %	2.0 %	40		15m*		20m†	1.5m†	11	240m§	3.5m	100mΔ	54			0F F091	Y220
35	MC7824AK	24	2.0 %	2.0 %	40		15m*		20m†	1.5m†	11	36m§	3.5m	50mΔ	56			5F F091	TO3
36	MC78L24ACP	24	5.0 %	5.0 %	40	1.7	700m	100m		350m§	99m	200mΔ	99m	200mΔ				OC F144a	TO92
37	MC78L24CP	24	10 %	10 %	40	1.7	700m	100m		350m§	99m	200mΔ	99m	200mΔ				OC F144a	TO92
38	MC79L24CP	24	10 %	10 %	40	1.7	700m	100m		350m§	99m	200mΔ	99m	200mΔ				OC F145a	TO92
39	MC79L24ACP	24	5.0 %	5.0 %	40	1.7	799m	100m		350m§	99m	200mΔ	99m	200mΔ				OC F145a	TO92
40	MC78M24CG	24	4.1 %	4.1 %	40	2.0	800m	500m		1.2m†	11	100m§	495m	480mΔ	70 †			OC F091d	TO39
41#	TA78L024AP	24	4 %	4 %	40	1.7	0.8	150m										37 MP23	
42#	TA78L024P	24	6.5 %	6.5 %	40	1.7	0.8	150m		2.0m†	11	350m§	99m	200mΔ	30			3E F091d	MP23
43#	78M24CDB	24	4.1 %	4.1 %	40	2.0	850m	500m		1.2m†	11	100m§	495m	480mΔ	50			0E F091d	TO39
44#	78M24DB	24	4.1 %	4.1 %	40	2.0	850m	500m		1.2m†	11	60m§	495m	240mΔ	50			5E F091d	TO39
45	MC78L24ACG	24	5.0 %	5.0 %	40	1.7	850m	100m		350m§	99m	200mΔ	99m	200mΔ				OC F144	TO39
46	MC78L24CG	24	10 %	10 %	40	1.7	850m	100m		350m§	99m	200mΔ	99m	200mΔ				OC F144	TO39
47	MC79L24ACG	24	5.0 %	5.0 %	40	1.7	850m	100m		350m§	99m	200mΔ	99m	200mΔ				OC F145	TO39
48	MC79L24CG	24	10 %	10 %	40	1.7	850m	100m		350m§	99m	200mΔ	99m	200mΔ				OC F145	TO39
49	7924CDA	24	1.0 %	1.0 %	40	1.1	1.0 *		28m†	1.0m†	11	480m§	1.5	480mΔ	54			OC F162	TO3
50	7924CU	24	1.0 %	1.0 %	40	1.1	1.0 *		28m†	1.0m†	11	480m§	1.5	480mΔ	54			OC F162a	Y220b
51	7924DA	24	1.0 %	1.0 %	40	1.1	1.0 *		28m†	1.0m†	11	240m§	1.5	240mΔ	54			5C F162	TO3
52	SA7824CDA	24	1.0 %	1.0 %	40	2.0	1.0 *		28m†	1.5m†	11	480m§	1.5	480mΔ	56			48 F091c	TO3
53	SA7824CU	24	1.0 %	1.0 %	40	2.0	1.0 *		28m†	1.5m†	11	480m§	1.5	480mΔ	56			48 F091c	Y220b
54	uA7824CDA	24	1.0 %	1.0 %	40	2.0	1.0 *		28m†	1.5m†	11	480m§	1.5	480mΔ	50			08 F091c	TO3
55	uA7824CU	24	1.0 %	1.0 %	40	2.0	1.0 *		28m†	1.5m†	11	480m§	1.5	480mΔ	50			08 F091c	Y220b
56	uA7824DA	24	1.0 %	1.0 %	40	2.0	1.0 *		28m†	1.5m†	11	240m§	1.5	240mΔ	56			5C F091c	TO3
57#	TA78024AP	24	5 %	5 %	40	2.0	1.5	1.0										37 F091e	Y220ab
58#	78M24CU	24	4.1 %	4.1 %	40	2.0	2.0	500m		1.2m†	11	100m§	495m	480mΔ	50			0E F091e	Y220b
59#	7824CU	24	4.1 %	4.1 %	40	2.0	2.0	1.0		1.0m†	11	480m§	500m	240mΔ	56			0E F091e	Y220b
60	MC78M24CT	24	4.1 %	4.1 %	40	2.0	2.0	500m		1.2m†	11	100m§	495m	480mΔ	70 †			OC F091f	Y220b
61	MC7924CT	24	4.0 %	4.0 %	40	2.0	2.0	1.5		1.0m†	11	480m§	1.5	480mΔ	56 †			OC F116a	Y220b
62	SA78M24CU	24	1.0 %	1.0 %	40	2.0	2.0 *			1.2m†	11	100m§	495m	480mΔ	50 †			4C F091e	Y220b
63	SG140-24P	24	1.0 %	1.0 %	40	2.0	2.0 *	1.5		1.5m†	11	240m§	1.5	240mΔ	66 †			5F F160c	Y220b
64	uPC78M24H	24	4.1 %	4.1 %	40	2.0	2.0	500m		1.2m†	11	100m§	495m	480mΔ	50	1.0u†	10u†	28 F165a	Y220b
65	MC7824CT	24	4.1 %	4.1 %	40	2.0	2.5	1.5		1.0m†	11	480m§	1.5	480mΔ	56 †			OC F091f	Y220b
66	MC7924CK	24	4.0 %	4.0 %	40	2.0	2.5	1.5		1.0m†	11	480m§	1.5	480mΔ	56 †			OC F116	TO3
67#	7824CDA	24	4.1 %	4.1 %	40	2.0	3.5	1.0		1.5m†	11	480m§	500m	240mΔ	56			OC F091g	TO3
68#	7824DA	24	4.1 %	4.1 %	40	2.0	3.5	1.0		1.5m†	11	240m§	500m	120mΔ	56			5E F091g	TO3
69#	HA17824P	24	23	25	40	2.0	15	150m		240m§	6.0	240m§	500m	240mΔ	50			5E F215	TO220
70	LAS1524	24	5.0 %	5.0 %	40	2.4	15	1.5		15	15	2.0	1.4	600m	58			5E F168	CN48b
71	LAS1824	24	5.0 %	5.0 %	40	2.1	15	1.5		15	15	2.0	1.4	600m	59			5E F169	CN48b
72	LM340-24DA	24	4.2 %	4.2 %	40	27 *	15 *	1.5		480m§	11	480m§	1.4	480mΔ	44 †			07 F110	TO3
73	LM340-24U	24	4.2 %	4.2 %	40	27 *	15 *	1.5		480m§	11	480m§	1.4	480mΔ	44 †			07 F110	Y220b
74	uPC7824H	24	1																

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	TYPE No.	1 | NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE		2 | MAX INPUT LINE VOLT [V]	MIN OUT/IN DIFF. (ΔV)	3 | MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG		MAX LOAD REG		MAX TRANSIENT RECOVERY		T E O M D P E	DRAWINGS	
			LOW (V)	HIGH (V)							LINE VOLT. CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	LOAD CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	@LINE CHG. (s)		@LOAD CHG. (s)	C K T.	OUT-LINE Δ=MO
1	LAS1828	28 ♦	5.0 %	5.0 %	40	2.1	15	1.5			15	2.0	1.4	600m	58		5E	F169	CN48b
2	uPC141G	30					440m			5.0	0.3 Δ	12m	.05	.3mΔ			27	F003	MD8a
3	uPC305G	30					440m			5.0	0.3 Δ	12m	.05	.3mΔ			07	F003	MD8a
4	RC4191DE	30	2.5	30	30		500m*	150m			0.2		0.5				07	F240	DL8j
5	RC4192DE	30	2.5	30	30		500m*	150m			0.5		0.5				07	F240	DL8j
6	RC4192NB	30	2.5	30	30		500m*	150m			0.5		0.5				07	F240	DL8bi
7	LAS19U	30			35	25	50	5.0		0.2 Δ	9.0	2.0	4.9	.60	60	5D	F182a	TO3	
8#	M5230L	30	6.0	60	70	3.0	800m	30m					20m	0.1	62 †	27		MS3	
9	uPC7924H	33 ♦					*	1.0	70m				480m§	3.5m	480mΔ	27		Y220AB	
10	uPC78M10H	35					800m			1.0m	11	480m§	3.5m	480mΔ	51		28	F091d	Y220b
11	uPC78L10	35					800m			0.9m	14	170m§	39m	45mΔ	37		28	F091d	MS18
12	SG153K	35					50					2.0	3.0			5D	F229	TO3	
13	SG253K	35					50					2.0	3.0			2D	F229	TO3	
14	SG353K	35					50					2.0	3.0			0C	F229	TO3	
15	LAS14AU	35			40	25	30	3.0		.02 Δ	9.0	1.0	2.9	.60	600	5F	F182a	TO3	
16#	M5231L	35	3.0	50	70	3.0	300m	30m					20m	0.1	62 †	27		MS4	
17	TL431MJG	37			36		1.2	1.0m	0.5							5C	F227	DL8s	
18	uPC494G	40					1.0				33	25mΔ	9.0m	15mΔ		27	Z5926	MD16a	
19	TDB0137CM	40	1.2 ♦				2.0	10m		.03 %	37	.04	10m	1.0	60 †	0C	F198	TO39	
20	TDC0137CM	40	1.2 ♦				2.0	5.0m		.03 %	37	.02	10m	.50	60 †	5F	F198	TO39	
21	TDE0137CM	40	1.2 ♦				2.0	5.0m		.03 %	37	.02	10m	.50	60 †	2F	F198	TO39	
22	TDB0137SP	40	1.2 ♦				15	10m		.03 %	37	.04	10m	1.0	60 †	0C	F198	Y220	
23	TDB0137KM	40	1.2 ♦				20	10m		.03 %	37	.04	10m	1.0	60 †	0C	F198	TO3	
24	TDC0137KM	40	1.2 ♦				20	5.0m		.03 %	37	.02	10m	.50	60 †	5F	F198	TO3	
25	TDE0137KM	40	1.2 ♦				20	5.0m		.03 %	37	.02	10m	.50	60 †	2F	F198	TO3	
26	LAS3800	40			40		1.4			.01 Δ	28	.01 Δ				5C	F236	DL16Z	
27	LAS6300L(A)	40			40		5.0			5.0mΔ	29	.05 Δ				5C	F237	TO3	
28	uPC494C	41					1.0				33	25mΔ	9.0m	15mΔ			Z5926	DL16cr	
29	MC79L12AC(A)	-12			-35		775m				11	200m§	39m	50mΔ	37	0F	F175b	Y226a	
30	MC79L12C(A)	-12			-35		775m				11	200m§	39m	50mΔ	36	0F	F175b	Y226a	
31	LAS18A12	-12			-40	30 Δ	15	3.5		.03 Δ	10	2.0	1.4	.60	59	5F	F182	TO3	
32	MC79L15AC(A)	-15			-35		775m				10	250m§	39m	75mΔ	34	0F	F175b	Y226a	
33	MC79L15C	-15			-35		775m				10	250m§	39m	75mΔ	33	0F	F175b	Y226a	
34	LAS18A15	-15			-40	30 Δ	15	3.5		.03 Δ	10	2.0	1.4	.60	59	5F	F182	TO3	
35	ICL7663/D	187			18		15	1.0u			13	0.3 Δ†					F234	CH62	

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C RATED SPECS		INPUT CHARACTERISTICS @25°C						OUTPUT CHAR. @ 25°C		W/C TRANSFER CHAR. @25°C		T C E O M P E	DRAWINGS		
		1] TOT. VOLT (ΔV)	2] MAX IDLE P (W)	OVER OPERATING TEMP RANGE			MIN CM RANGE (ΔV)	STROBE CUR-MAX (A)	MIN. OUTPUT VOLTAGE (V)	MAX. OUT RES. (Ω)	MIN. CURR SINK (A)	VOLT. GAIN (dB)	RESP. TIME (s)				
				3] DRIFT (V/°C)	4] OFFSET (V)	MAX VOLTAGE (V)										MAX CURRENT (A)	BIAS (A)	POS (V)	NEG (V)
1	CMP05EZ(M)	2.4	500mW	250u	80n	1.2u	6.0	2.4			8.0 Δ	50n†	28	G109	DL8ba		
2	LM2901N	5.0		7.0m§	50n§	250m§	3.5 Δ				106 †	1.3u†	48	G079	DL8m		
3	TL331CJG	5.0	4.0m	9.0m	150n	400n	3.5	30 †	250m§		106 †	1.3u†	07	G083	DL8v		
4	TL331CP	5.0	4.0m	9.0m	150n	400n	3.5	30 †	250m§		106 †	1.3u†	07	G083	DL8p		
5	TL331JG	5.0	4.0m	9.0m	100n	300n	3.5	30 †	250m§		106 †	1.3u†	28	G083	DL8v		
6	TL331IP	5.0	4.0m	9.0m	100n	300n	3.5	30 †	250m§		106 †	1.3u†	28	G083	DL8p		
7	TL331MJG	5.0	4.0m	9.0m	100n	300n	3.5	30 †	250m§		106 †	1.3u†	5C	G083	DL8v		
8#	HA17903GS	5.0	4.0m	15m	200n	500n	3.5				6.0m	1.3u†	48	G079	DL8r		
9#	HA17903PS	5.0	4.0m	15m	200n	500n	3.5				6.0m	1.3u†	28	G079	DL8n		
10	LM193AH0	5.0	5.0m	4.0m	100n	300n	3.5	5.0 †	250m§		94	1.3u†	5C	G079a	CN1d		
11	LM193AN0	5.0	5.0m	4.0m	100n	300n	3.5	5.0 †	250m§		94	1.3u†	5C	G079a	DL8ao		
12	LM193AT0	5.0	5.0m	4.0m	100n	300n	3.5	5.0 †	250m§		94	1.3u†	5C	G079a	CN1g		
13	LM293AH0	5.0	5.0m	4.0m	150n	400n	3.5	5.0 †	250m§		94	1.3u†	28	G079a	CN1d		
14	LM293AN0	5.0	5.0m	4.0m	150n	400n	3.5	5.0 †	250m§		94	1.3u†	28	G079a	DL8ao		
15	LM293AT0	5.0	5.0m	4.0m	150n	400n	3.5	5.0 †	250m§		94	1.3u†	28	G079a	CN1g		
16	LM393AH0	5.0	5.0m	4.0m	150n	400n	3.5		250m§		6.0m	94	1.3u†	07	G079a	CN1d	
17	LM393AN0	5.0	5.0m	4.0m	150n	400n	3.5		250m§		6.0m	94	1.3u†	07	G079a	DL8ah	
18	LM393AT0	5.0	5.0m	4.0m	150n	400n	3.5	5.0 †	250m§		6.0m	94	1.3u†	07	G079a	CN1g	
19	uA2901PC	5.0	5.0m	7.0m§	50n§	250m§	3.5	30 †	400m§		6.0m	106 †	48	G079	DL14bz		
20	LM193H0	5.0	5.0m	9.0m	100n	300n	3.5		250m§		6.0m	94	1.3u†	5C	G079a	CN1d	
21	LM193JG	5.0	5.0m	9.0m	100n	300n	3.5	5.0 †	400m§Δ		4.0m	94	1.3u†	5C	G079a	DL8v	
22	LM193N0	5.0	5.0m	9.0m	100n	300n	3.5	5.0 †	250m§		6.0m	94	1.3u†	5C	G079a	DL8ao	
23	LM193T0	5.0	5.0m	9.0m	100n	300n	3.5	5.0 †	250m§		6.0m	94	1.3u†	5C	G079a	CN1g	
24	LM293H0	5.0	5.0m	9.0m	150n	400n	3.5		250m§		6.0m	94	1.3u†	28	G079a	CN1d	
25	LM293JG	5.0	5.0m	9.0m	150n	400n	3.5	5.0 †	400m§Δ		4.0m	94	1.3u†	28	G079a	DL8v	
26	LM293N0	5.0	5.0m	9.0m	150n	400n	3.5	5.0 †	250m§		6.0m	94	1.3u†	28	G079a	DL8ao	
27	LM293P	5.0	5.0m	9.0m	150n	400n	3.5	5.0 †	400m§Δ		4.0m	94	1.3u†	28	G079a	DL8p	
28	LM293T0	5.0	5.0m	9.0m	150n	400n	3.5	5.0 †	250m§		6.0m	94	1.3u†	28	G079a	CN1g	
29	LM393H0	5.0	5.0m	9.0m	150n	400n	3.5		250m§		6.0m	94	1.3u†	07	G079a	CN1d	
30	LM393JG	5.0	5.0m	9.0m	150n	400n	3.5	5.0 †	400m§Δ		4.0m	94	1.3u†	07	G079a	DL8v	
31	LM393N0	5.0	5.0m	9.0m	150n	400n	3.5		250m§		6.0m	94	1.3u†	07	G079a	CN1d	
32	LM393P	5.0	5.0m	9.0m	150n	400n	3.5	5.0 †	400m§Δ		4.0m	94	1.3u†	07	G079a	DL8p	
33	LM393T0	5.0	5.0m	9.0m	150n	400n	3.5	5.0 †	250m§		6.0m	94	1.3u†	07	G079a	CN1g	
34	LM2901JZ*	5.0	5.0m	15m	200n	500n	3.5		250m§		6.0m	88	1.3u†	48	G079	DL14bf	
35	LM2903JG	5.0	5.0m	15m	200n	500n	3.5	5.0 †	400m§Δ		4.0m	88	1.5u†	48	G079a	DL8v	
36	LM2903N0	5.0	5.0m	15m	200n	500n	3.5		250m§		6.0m	88	1.5 †	48	G079a	DL8ah	
37	LM2903P	5.0	5.0m	15m	200n	500n	3.5	5.0 †	400m§Δ		4.0m	88	1.5u†	48	G079a	DL8p	
38	LM2903T0	5.0	5.0m	15m	200n	500n	3.5	5.0 †	400m§Δ		6.0m	88	1.3u†	48	G079a	CN1g	
39	uA2901DC*	5.0	5.0m	15m	200n	500n	3.5	30 †	400m§		6.0m	88	1.3u†	48	G079	DL14br	
40	LM192H§	5.0	5.0m	7.0u†	7.0m	100n	300n	3.5	30 †	400m§		6.0m	94	1.3u†	5C	A442	CN1d
41	LM192J§	5.0	5.0m	7.0u†	7.0m	100n	300n	3.5	30 †	400m§		6.0m	94	1.3u†	5C	A442	DL8aq
42	LM192H§	5.0	5.0m	7.0u†	7.0m	150n	400n	3.5	30 †	400m§		6.0m	94	1.3u†	28	A442	CN1d
43	LM292J§	5.0	5.0m	7.0u†	7.0m	150n	400n	3.5	30 †	400m§		6.0m	94	1.3u†	28	A442	DL8aq
44	LM392H§	5.0	5.0m	7.0u†	7.0m	150n	400n	3.5	30 †	400m§		6.0m	94	1.3u†	07	A442	CN1d
45	LM392J§	5.0	5.0m	7.0u†	7.0m	150n	400n	3.5	30 †	400m§		6.0m	94	1.3u†	07	A442	DL8aq
46	LM392N§	5.0	5.0m	7.0u†	7.0m	150n	400n	3.5	30 †	400m§		6.0m	94	1.3u†	07	A442	DL8ah
47	LM2924J§	5.0	5.0m	7.0u†	10m	200n	500n	3.5	30 †	400m§		6.0m	88	1.5u†	48	A442	DL8aq
48	LM2924N§	5.0	5.0m	7.0u†	10m	200n	500n	3.5	30 †	400m§		6.0m	88	1.5u†	48	A442	DL8ah
49	LM239AJZ*	5.0	10m	2.0m	50n	250n	3.5	5.0 †	400m§Δ		6.0m	96	1.3u†	28	G053	DL14bm	
50	CA139AE*	5.0	10m	4.0m	100n	300n	3.5				6.0m	106	1.3u†	5C	G053	Δ001AB	
51	CA139E*	5.0	10m	4.0m	100n	300n	3.5				6.0m	106	1.3u†	5C	G053	Δ001AB	
52	CA239AE*	5.0	10m	4.0m	150n	400n	3.5				6.0m	106	1.3u†	28	G053	Δ001AB	
53	CA339AE*	5.0	10m	4.0m	150n	400n	3.5				6.0m	106	1.3u†	07	G053	Δ001AB	
54	CA339H	5.0	10m	4.0m	150n	400n	3.5				6.0m	106	1.3u†	07	G053	CH16ab	
55	LM139AFZ*	5.0	10m	4.0m	100n	300n	3.5	5.0 †			6.0m	96	1.3u†	5C	G053	DL14bn	
56	LM139AN*	5.0	10m	4.0m	100n	300n	3.5	5.0 †			6.0m	96	1.3u†	5C	G053	DL14aw	
57	LM239AF*	5.0	10m	4.0m	150n	400n	3.5	5.0 †			6.0m	96	1.3u†	28	G053	DL14bn	
58	LM239AJ	5.0	10m	4.0m	150n	400n	3.5		250m§		6.0m	94	1.3u†	28	G079	DL14bf	
59	LM239AN*	5.0	10m	4.0m	150n	400n	3.5	5.0 †			6.0m	96	1.3u†	28	G053	DL14aw	
60	LM339AF*	5.0	10m	4.0m	150n	400n	3.5	5.0 †			6.0m	96	1.3u†	07	G053	DL14bn	
61	LM339AN*	5.0	10m	4.0m	150n	400n	3.5	5.0 †			6.0m	96	1.3u†	07	G053	DL14aw	
62	uA139ADM	5.0	10m	4.0m	100n	300n	3.5	30 †	400m§		6.0m	94	1.3u†	5C	G079	DL14br	
63	uA239ADC	5.0	10m	4.0m	150n	400n	3.5	30 †	400m§		6.0m	94	1.3u†	28	G079	DL14br	
64	uA239APC	5.0	10m	4.0m	150n	400n	3.5	30 †	400m§		6.0m	94	1.3u†	28	G079	DL14bz	
65	uA339ADC	5.0	10m	4.0m	150n	400n	3.5	30 †	400m§		6.0m	94	1.3u†	07	G079	DL14br	
66	uA339APC	5.0	10m	4.0m	150n	400n	3.5	30 †	400m§		6.0m	94	1.3u†	07	G079	DL14bz	
67	AMLM139AD	5.0	10m	5.0m	25n	100n	1.5				6.0m	106	1.3u	5C	G079		
68	AMLM139AF	5.0	10m	5.0m	25n	100n	1.5				6.0m	106	1.3u	5C	G079		
69	AMLM139D	5.0	10m	5.0m	25n	100n	1.5				6.0m	106	1.3u	5C	G079		
70	AMLM139F	5.0	10m	5.0m	25n	100n	1.5				6.0m	106	1.3u	5C	G079		
71	AMLM239AD	5.0	10m	5.0m	50n	250n	1.5				6.0m	106	1.3u	28	G079		
72	AMLM239D	5.0	10m	5.0m	50n	250n	1.5				6.0m	106	1.3u	28	G079		
73	AMLM339AD	5.0	10m	5.0m	50n	250n	1.5				6.0m	106	1.3u	07	G079		
74	AMLM339AN	5.0	10m	5.0m	50n	250n	1.5				6.0m	106	1.3u	07	G079		
75	AMLM339D	5.0	10m	5.0m	50n	250n	1.5				6.0m	106	1.3u	07	G079		
76	AMLM339N	5.0	10m	5.0m	50n	250n	1.5				6.0m	106	1.3u	07	G079		
77	LM2901J	5.0	10m	5.0m§	50n§	250m§	3.5				6.0m	106 †	48	G079	DL8b		
78#	MB4204C	5.0	10m	5.0m	50n	250n	3.5				6.0m	106	1.3u†	16	G104	DL14cq	
79#	MB4204M	5.0	10m	5.0m	50n	250n	3.5				6.0m	106	1.3u†	16	G104	DL14cr	
80#	TA75339P	5.0	10m	5.0m	50n	250n	3.5				6.0m	106	1.3u†	48	G053	DL14ca	
81#	TA75393P	5.0	10m	5.0m	50n	250n	3.5				6.0m	106	1.3u†	48	G079a	DL8bd	
82#	TA75393S	5.0	10m	5.0m	50n	250n	3.5				6.0m	106	1.3u†	48	G119	MP26	
83	uPC177C	5.0	10m	5.0m§	50n§	250m§	3.5				6.0m	106	1.3u†	27	G079	Δ001AA	
84	uPC177D	5.0	10m														

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS							OUTPUT CHAR. @ 25°C		W/C TRANSFER CHAR. @25°C		DRAWINGS				
		1 | TOT. VOLT (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE				MIN. OUTPUT VOLTAGE		MIN. CURR. SINK (A)	VOLT. GAIN (dB)	RESP. TIME (s)	I C O M P E D	C K T.	O U T - L I N E Δ = M O				
				3 | MAX. VOLTAGE (V/°C)	4 | OFFSET (V)	5 | MAX CURRENT (A)	BIAS (A)	MIN. CM RANGE (ΔV)	STROBE CUR-MAX (A)							MIN. POS. (V)	NEG. (V)		
																		6 | W/C TRANSFER CHAR. @25°C	7 | W/C TRANSFER CHAR. @25°C
1	LM2901N	5.0	10m	15m	20n	50n	3.5	5.0	400mΔ	6.0m	88	1.3u	48	G053	DL14aw				
2	LM3302J	5.0	10m	40m	30n	1.0u	3.5	5.0	200mΔ	4.0m†	66	1.3 †	48	G079	DL14bf				
3	LM3302N	5.0	10m	40m	30n	1.0u	3.5	5.0	200mΔ	4.0m†	66	1.3u	48	G079	DL14z				
4	MC3302N	5.0	10m	40m	30n	1.0u	3.5	5.0	400mΔ	2.0m	46	1.3u	48	G053	DL14aw				
5	uA3302DC	5.0	10m	40m	30n	1.0u	3.5	30	500mΔ	2.0m	66	1.3u	48	G079	DL14br				
6	uA3302PC	5.0	10m	40m	30n	1.0u	3.5	30	500mΔ	2.0m	66	1.3u	48	G079	DL14bz				
7	MK119	5.0	18m	15u	300u	30mΔ	20m	5.0u	2.0	3.6	0.3 †	100	0.4m	100	1.0u	07	5C	G088	DL8ae
8	9915	5.0	100m					50u		3.5		470 †	10m	40	55n				DL8ah
9	MK104	5.0	120m					20n					10m	100	2.0u				TO116
10	MC3505L	5.0	120m	15u†	9.0m	150n	1.5u	0.0		5.0	†	350mΔ	6.0m	104 †	300n†	5C	A415	TO116	
11	MC3405L	5.0	210m	15u†	12m	200n	800n	0.0		5.0	†	350mΔ	6.0m	104 †	300n†	07	A415	TO116	
12	MC3405P	5.0	210m	15u†	12m	200n	800n	0.0		5.0	†	350mΔ	6.0m	104 †	300n†	07	A415	DL14az	
13	PM139AY	5.0	500mΔ	4.0m	50n	100n	3.5			5.0		6.0m	50	Δ	300u†	5C	G079	DL16bz	
14	PM139Y	5.0	500mΔ	10m	100n	100n	3.5			5.0		6.0m	50	Δ	300u†	5C	G079	DL16bz	
15	LM139AJ	5.0	570m	2.0m	25n	100n	1.5			5.0		6.0m	50		1.3u†	5C	G079	DL14ah	
16	LM339AJ	5.0	570m	2.0m	50n	250n	1.5			2.5		500mΔ	6.0m	50	1.3u†	5C	G079	DL14ah	
17	SE521N	5.0	600mΔ	15m	12u	40u	6.0						12n			07	G042	TO116	
18	uA193ARM	5.0	800mΔ	2.0m	25n	100n	0.0						6.0m	200	Δ	1.3u†	5C	G079a	DL8t
19	uA293ARC	5.0	800mΔ	2.0m	50n	250n	0.0						6.0m	200	Δ	1.3u†	28	G079a	DL8t
20	uA293ATC	5.0	800mΔ	2.0m	50n	250n	0.0						6.0m	200	Δ	1.3u†	28	G079a	DL8ag
21	uA393ARC	5.0	800mΔ	2.0m	50n	250n	0.0						6.0m	200	Δ	1.3u†	07	G079a	DL8t
22	uA393ATC	5.0	800mΔ	2.0m	50n	250n	0.0						6.0m	200	Δ	1.3u†	07	G079a	DL8ag
23	uA193RM	5.0	800mΔ	5.0m	25n	100n	0.0						6.0m	200	Δ	1.3u†	5C	G079a	DL8t
24	uA293RC	5.0	800mΔ	5.0m	50n	250n	0.0						6.0m	200	Δ	1.3u†	28	G079a	DL8t
25	uA293TC	5.0	800mΔ	5.0m	50n	250n	0.0						6.0m	200	Δ	1.3u†	28	G079a	DL8ag
26	uA393RC	5.0	800mΔ	5.0m	50n	250n	0.0						6.0m	200	Δ	1.3u†	07	G079a	DL8t
27	uA393TC	5.0	800mΔ	5.0m	50n	250n	0.0						6.0m	200	Δ	1.3u†	07	G079a	DL8ag
28	uA2903RC	5.0	800mΔ	7.0m	50n	250n	0.0						6.0m	100	Δ	1.3u†	6F	G079a	DL8t
29	uA2903TC	5.0	800mΔ	7.0m	50n	250n	0.0						6.0m	100	Δ	1.3u†	6F	G079a	DL8ag
30	AD9685BD	6.0	500mΔ	20u†	5.0	5.0u	20u	80	*	.96	Ø	1.8	50	30mΔ	3.0n	38	G044	DL16bs	
31	AD9685BH	6.0	500mΔ	20u†	5.0	5.0u	20u	80	*	.96	Ø	1.8	50	30mΔ	3.0n	38	G044	DL16bs	
32	AD9687BD	6.0	500mΔ	20u†	5.0	5.0u	20u	80	*	.96	Ø	1.8	50	30mΔ	4.0n	38	G044	DL16bs	
33	MS1202L	6.5	180mΔ	50m						18		26	Δ	40m	200n†	27	G117	MS24	
34	TEB1028DP	7.0	500mΔ	40m	200n	400n	-66			2.4		400mΔ	100	†	100u	07	G111	TO116	
35	LM160J14	8.0	240m	8.0u†	5.0m	3.0u	20u	8.0		2.4		400mΔ	100	†	12n†	5C	G040	DL14bf	
36	LM260J14	8.0	240m	8.0u†	5.0m	3.0u	20u	8.0		2.4		400mΔ	100	†	12n†	28	G040	DL14bf	
37	CMP05N #ai	10		250uΔ	80nΔ	1.2nΔ				2.4		400mΔ			16kΔ	6F	CH59	CH59	
38	CMP05G #ai	10		600uΔ	150nΔ	1.8nΔ				2.4		400mΔ			16kΔ	6F	CH59	CH59	
39	SE522F	10		15m	12u	40u	6.0		100u	500m					15n	07	G043	TO116	
40	NE526A	10	120m	5.0m	5.0u	35u	7.4			2.8		400m	16m	70	†	17	*	G009	TO116
41	NE526K	10	120m	5.0m	5.0u	35u	7.4			2.8		400m	16m	70	†	17	*	G009	TO99
42	SE526A	10	120m	5.0m	5.0u	35u	7.4			3.5		500mΔ	16m	70	†	15n*	07	G009	TO116
43	SE526K	10	120m	5.0m	5.0u	35u	7.4			2.8		400m	16m	70	†	17	*	G009	TO99
44	SE521F	10	210m	15m	12u	40u	6.0		100u	2.5		500mΔ			12n	07	G042	TO99	
45	LM160H	10	240m	5.0m	3.0u	20u	8.0			2.4		400mΔ	100	†	12n†	5C	G040	CN1d	
46	LM260H	10	240m	5.0m	3.0u	20u	8.0			2.4		400mΔ	100	†	12n†	28	G040	CN1d	
47	LM360H	10	240m	5.0m	3.0u	20u	8.0			2.4		400mΔ	100	†	12n†	07	G040	CN1d	
48	LM360N14	10	240m	5.0m	3.0u	20u	8.0			2.4		400mΔ	100	†	12n†	07	G040	DL14z	
49	LM360N	10	240m	5.0m	3.0u	20u	8.0			2.4		400mΔ	100	†	12n†	07	G040	DL14z	
50	NE521A	10	390m	10m	12u	40u	6.0		100u	2.7		500mΔ	280	74	18n	07	G042	DL14ao	
51	NE521F	10	390m	10m	12u	40u	6.0		4.0m	2.7		500mΔ	280	74	18n	07	G042	DL14bn	
52	NE521N	10	390m	10m	12u	40u	6.0		4.0m	2.7		500mΔ	280	74	18n	07	G042	DL14aw	
53	NE522A	10	390m	10m	12u	40u	6.0		100u	5.2		500mΔ	280	74	25n	07	G043	DL14ao	
54	NE522F	10	390m	10m	12u	40u	6.0		4.0m	5.2		500mΔ	280	74	25n	07	G043	DL14bn	
55	NE522N	10	390m	10m	12u	40u	6.0		4.0m	5.2		500mΔ	280	74	25n	07	G043	DL14aw	
56	SE527H	10	600mΔ	6.0m	1.0u	7.0u	12	Δ		50u	2.5	500mΔ			26n	5C	G045a	TO100	
57	SE529H	10	600mΔ	6.0m	9.0u	36u	12	Δ		50u	2.5	500mΔ			22n	5C	G045a	TO100	
58	NE527H	10	600mΔ	10m	1.0u	7.0u	12	Δ		100u	2.7	500mΔ			26n	07	G045a	TO100	
59	NE529H	10	600mΔ	10m	15u	50u	12	Δ		100u	2.7	500mΔ			22n	07	G045a	TO100	
60	MC3430L	10	1.0	2.0m†	1.0u	20u	10			1.0m			16M	62	†	55n	07	G051	DL16n
61	MC3430P	10	1.0	2.0m†	1.0u	20u	10			1.0m			16M	62	†	55n	07	G051	DL16ad
62	MC3431L	10	1.0	2.0m†	1.0u	20u	10			1.0m			16M	62	†	55n	07	G051	DL16n
63	MC3431P	10	1.0	2.0m†	1.0u	20u	10			1.0m			16M	62	†	55n	07	G051	DL16ad
64	MC3432L	10	1.0	2.0m†	1.0u	20u	10			1.0m			16M	62	†	55n	07	G051	DL16n
65	MC3432P	10	1.0	2.0m†	1.0u	20u	10			1.0m			16M	62	†	55n	07	G051	DL16ad
66	MC3433L	10	1.0	2.0m†	1.0u	20u	10			1.0m			16M	62	†	55n	07	G051	DL16n
67	MC3433P	10	1.0	2.0m†	1.0u	20u	10		1.0m				16M	62	†	55n	07	G051	DL16ad
68	AM685DL	11	325m	10u	2.5m	1.3u	13u	3.3		960mØ	1.8				4.5n	38	G044	DL16cc	
69	AM685HL	11	325m	10u	2.5m	1.3u	13u	3.3		960mØ	1.8				4.5n	38	G044	TO100	
70	AM685DM	11	325m	10u	3.0m	1.6u	16u	3.3		960mØ	1.8				4.5n	5C	G044	DL16cc	
71	AM685HM	11	325m	10u	3.0m	1.6u	16u	3.3		960mØ	1.8				4.5n	5C	G044	TO100	
72	AM686HM	11	400m	10u†	2.0mΔ	1.0uΔ	10uΔ	6.0		2.5		500mΔ	10m†		15n	5C	G082	CNØ	
73	AM686HC	11	415m	10u†	3.0mΔ	1.0uΔ	10uΔ	6.0		2.7		500mΔ	10m†		15n	06	G082	CNØ	
74	AM687DL	11	534m	10u	3.5m	1.3u	13u	3.3		960mØ	1.8				9.0n			G027a	DL14br
75	uA760DM	13	312m	3.0u†	6.0m	7.5u	60u	8.0		2.4		400mΔ	100	†	3.2m	30n	5C	G027a	CN1d
76	uA760HM	13	312m	3.0u†	6.0m	7.5u	60u	8.0		2.4		400mΔ	100	†	3.2m	30n	5C	G027a	DL14br
77	uA760DC	13	325m	3.0u†	6.0m	7.5u	60u	8.0		2.4		400mΔ	100	†	3.2m	30n	07	G027a	CN1d
78	uA760HC	13	325m	3.0u†	6.0m	7.5u	60u	8.0		2.4		400mΔ	100	†	3.2m	30n	07	G027a	CN1d
79	SFC2525EC	14	135m																

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS							OUTPUT CHAR. @ 25°C				W/C TRANSFER		DRAWINGS	
		1) TOT VOLT (ΔV)	2) MAX IDLE P (W)	OVER OPERATING TEMP. RANGE @25°C				MIN. OUTPUT VOLTAGE		MIN. CURR. POS (V)	NEG (V)	MAX. OUT. RES. (Ω)	MIN. CURR. SINK (A)	VOLT. GAIN (dB)	RESP. TIME (s)	E O M D P E	C K T.	OUT-LINE Δ=MO
				3) DRIFT (V/°C)	4) OFFSET (V)	OFFSET (A)	BIAS (A)	RANGE (ΔV)	STROBE (A)										MIN. POS (V)	MIN. NEG (V)
1	TL710CN	18	88m	7.5u	10m	25u	150u	10	2.5	1.0	200	56	40n	07	G001	DL14bw		
2	TL710CP	18	88m	7.5u	10m	25u	150u	10	2.5	1.0	200	56	40n	07	G001	DL8p		
3	TL710CU	18	88m	7.5u	10m	25u	150u	10	2.5	1.0	200	56	40n	07	G001	Δ004AE		
4	TL720CJ	18	88m	7.5u	10m	25u	150u	10	2.5	1.0	200	56	40n	07	G070	DL14ah		
5	TL720CN	18	88m	7.5u	10m	25u	150u	10	2.5	1.0	200	56	40n	07	G070	DL14bw		
6#	SFC2710M	18	90m	7.5u	600u	750u	13u		3.2		500m	200m	65	40n	5C	G001	TO99	
7#	SFC2710C	18	90m	1.6m	1.6m	1.8u	16u		3.2		500m	200m	64	40n	07	G001	TO99	
8#	SFC2711C0	18	130m	1.0m	1.0m	500u	25u		4.5		500m	200m	64	40n	07	G006	TO100	
9#	SFC2711M0	18	130m	1.0m	1.0m	500u	25u		4.5		500m	200m	64	40n	5C	G006	TO100	
10	uPC71A	18	140m	5.0m	5.0m	25u	45u	10	2.5		200	1.6m	60	40n	28	G001	Δ002AK	
11	MC1710G	18	150m	3.0u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	62	40n	5C	G033	CN1k	
12	MC1710L	18	150m	3.0u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	62	40n	5C	G033	TO116	
13	TL811MJ	18	150m	5.0u	4.5m	5.0u	30u	10	2.5	2.5	200	500u	81	33n	5C	G029	DL14ah	
14#	TL811MN	18	150m	5.0u	4.5m	5.0u	30u	10	2.5	2.5	200	500u	80	33n	07	G029	DL14x	
15	TL811MU	18	150m	5.0u	4.5m	5.0u	30u	10	2.5	2.5	200	500u	81	33n	5C	G029	Δ004AE	
16	MC1710CG	18	150m	5.0u	6.5m	7.5u	40u	10	2.5	1.0	200	1.6m	60	40n	07	G033	CN1k	
17	MC1710CL	18	150m	5.0u	6.5m	7.5u	40u	10	2.5	1.0	200	1.6m	60	40n	07	G033	TO116	
18	MC1710CP	18	150m	5.0u	6.5m	7.5u	40u	10	2.5	1.0	200	1.6m	60	40n	07	G033	DL14az	
19	JANM38510/10301BCA	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048a	DL14bb	
20	JANM38510/10301BCB	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048a	DL14bb	
21	JANM38510/10301BCC	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048a	DL14bb	
22	JANM38510/10301BGA	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048a	DL14bb	
23	JANM38510/10301BGB	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048	CN1k	
24	JANM38510/10301BGC	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048	CN1k	
25	JANM38510/10301BHA	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048	CN1k	
26	JANM38510/10301BHB	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048b	FP31	
27	JANM38510/10301BHC	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048b	FP31	
28	JANM38510/10301CCA	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048b	FP31	
29	JANM38510/10301CCB	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048a	DL14bb	
30	JANM38510/10301CCC	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048a	DL14bb	
31	JANM38510/10301CGA	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048a	DL14bb	
32	JANM38510/10301CGB	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048	CN1k	
33	JANM38510/10301CGC	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048	CN1k	
34	JANM38510/10301CHA	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048	CN1k	
35	JANM38510/10301CHB	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048b	FP31	
36	JANM38510/10301CHC	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	2.0m	61	60n	5C	G048b	FP31	
37	uA710F	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	200	2.0m	60	40n	5C	G047	DL14bn
38	uA710N	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	200	2.0m	60	40n	5C	G047	DL8ao
39	uA710N-14	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	200	2.0m	60	40n	5C	G047	DL14aw
40	uA710T	18	150m	10u	2.0m	3.0u	20u	14 Δ	100u	2.5	1.0	200	2.0m	60	40n	5C	G047	TO99
41	LM710H	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	500u	61	40n	5C	G001	CN1d	
42	LM710N	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	500u	60	40n	5C	G001	DL14z	
43	RM710DC	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	62	40n	5C	G001	DL14av	
44	RM710T	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	62	40n	5C	G001	TO99	
45#	SFC2710EM	18	150m	10u	3.0m	7.0u	45u	10	2.5	0.0	200	2.0m	62	40n	5C	G001	TO116	
46#	SFC2710PM	18	150m	10u	3.0m	7.0u	45u	10	2.5	0.0	200	2.0m	62	40n	5C	G001	TO91	
47	TL510MJ	18	150m	10u	3.0m	7.0u	25u	10	2.5	1.0	200	81	30n	5C	G069	DL14ah		
48	TL510MJG	18	150m	10u	3.0m	7.0u	25u	10	2.5	1.0	200	81	30n	5C	G069a	DL8v		
49#	TL510MN	18	150m	10u	3.0m	7.0u	25u	10	2.5	2.5	200	2.0m	82	30n	5C	G024	DL14x	
50#	TL510MP	18	150m	10u	3.0m	3.0u	25u	10	2.5	5.0	200	5.0m	82	30n	5C	G024	DL8g	
51	TL510MU	18	150m	10u	3.0m	7.0u	25u	10	2.5	1.0	200	81	30n	5C	G069c	Δ004AE		
52	TL514MJ	18	150m	10u	3.0m	7.0u	25u	10	2.5	2.5	200	81	30n	5C	G025	DL14ah		
53#	TL514MN	18	150m	10u	3.0m	7.0u	25u	10	2.5	0.0	200	2.0m	82	30n	5C	G025	DL14x	
54	TL810MJ	18	150m	10u	3.0m	7.0u	25u	10	2.5	1.0	200	2.0m	81	30n	5C	G028	DL14ah	
55	TL810MJG	18	150m	10u	3.0m	7.0u	25u	10	2.5	1.0	200	2.0m	81	30n	5C	G028	DL8v	
56#	TL810MN	18	150m	10u	3.0m	7.0u	25u	10	2.5	0.0	200	2.0m	82	30n	5C	G028	DL14x	
57#	TL810MP	18	150m	10u	3.0m	3.0u	25u	10	2.5	1.0	200	5.0m	82	30n	5C	G028	DL8g	
58	TL810MU	18	150m	10u	3.0m	7.0u	25u	10	2.5	1.0	200	2.0m	81	30n	5C	G028	Δ004AE	
59	TL820MJ	18	150m	10u	3.0m	7.0u	25u	10	2.5	1.0	200	2.0m	81	30n	5C	G028a	DL14ah	
60#	TL820MN	18	150m	10u	3.0m	7.0u	25u	10	2.5	0.0	200	2.0m	82	30n	5C	G028a	DL14x	
61	uA710DM	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	79	40n	5C	G001	DL14br	
62	uA710FM	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	79	40n	5C	G001	FP2w	
63	uA710HM	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	79	40n	5C	G001	CN1d	
64	uA710MJ	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	61	40n	5C	G001	DL14ah	
65	uA710MJG	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	61	40n	5C	G001	DL8v	
66	uA710ML	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	61	40n	5C	G001	CN1k	
67	uA710MU	18	150m	10u	3.0m	7.0u	45u	10	2.5	1.0	200	2.0m	61	40n	5C	G001	Δ004AE	
68	TL510CJ	18	150m	20u	4.5m	7.5u	30u	10	2.5	2.5	200	80	30n	07	G069	DL14ah		
69	TL510CJG	18	150m	20u	4.5m	7.5u	30u	10	2.5	2.5	200	80	30n	07	G069a	DL8v		
70	TL510CN	18	150m	20u	4.5m	7.5u	30u	10	2.5	2.5	200	80	30n	07	G069	DL14bw		
71	TL510CP	18	150m	20u	4.5m	7.5u	30u	10	2.5	2.5	200	80	30n	07	G069a	DL8p		
72	TL514CJ	18	150m	20u	4.5m	7.5u	30u	10	2.5	2.5	200	80	30n	07	G025	DL14ah		
73	TL514CN	18	150m	20u	4.5m	7.5u	30u	10	2.5	1.0	200	80	30n	07	G025	DL14bw		
74	TL810CJ	18	150m	20u	4.5m	7.5u	30u	10	2.5	1.0	200	1.6m	80	30n	07	G028	DL14ah	
75	TL810CJG	18	150m	20u	4.5m	7.5u	30u	10	2.5	1.0	200	1.6m	80	30n	07	G028	DL8v	
76	TL810CN	18	150m	20u	4.5m	7.5u	30u	10	2.5	1.0	200	1.6m	80	30n	07	G028	DL14bw	
77	TL810CP	18	150m	20u	4.5m	7.5u	30u	10	2.5	1.0	200	1.6m	80	30n	07	G028	DL8p	
78	TL810CU	18	150m	20u	4.5m	7.5u</												

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C RATED SPECS		INPUT CHARACTERISTICS						OUTPUT CHAR. @ 25°C				W/C TRANSFER CHAR. @25°C		T E O M D P E	C O K T.	DRAWINGS
		1) TOT VOLT	2) MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		MIN CM RANGE (ΔV)	MIN. OUTPUT VOLTAGE		MIN. CURR SINK (A)	VOLT. GAIN (dB)	RESP. TIME (s)					
				3) DRFT (V/°C)	4) OFFSET (V)	OFFSET (A)	BIAS (A)		POS (V)	NEG (V)				MAX. OUT RES. (Ω)				
1	TL710MJ	18	175m	5.0u†	6.0m	20u	150u	10	2.5	1.0	200 †	1.6m	57	40n†	5C	G001	DL14ah	
2	TL710MJG	18	175m	5.0u†	6.0m	20u	150u	10	2.5	1.0	200 †	1.6m	57	40n†	5C	G001	DL8v	
3#	TL710MN	18	175m	5.0u†	6.0m	20u	150u	10	2.5	1.0	200 †	5.0m	56	40n†	5C	G001	DL14x	
4#	TL710MP	18	175m	5.0u†	6.0m	20u	150u	10	2.5	1.0	200 †	5.0m	56	40n†	5C	G001	DL8q	
5	TL710MU	18	175m	5.0u†	6.0m	20u	150u	10	2.5	1.0	200 †	1.6m	57	40n†	5C	G001	Δ004AE	
6	uA711MJ	18	200m	5.0u†	4.5m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	5C	G006	DL14ah
7	uA711ML	18	200m	5.0u†	4.5m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	5C	G006	CN10q
8	uA711MU	18	200m	5.0u†	4.5m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	5C	G006	Δ004AE
9	LM711HØ	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	1.0	200 †	500u	57	40n†	5C	G029	CN17j
10#	MA711MJ	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40 †	5C	G006	DL14ah
11	MC1711G	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	58	40n†	5C	G006	TO100
12	MC1711LØ	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	5C	G006	TO116
13#	SFC2711EMØ	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	64 †	40n†	5C	G006	TO116
14#	SFC2711PMØ	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	64 †	40n†	5C	G006	TO91
15	SN72811N	18	200m	5.0u†	6.0m	10u	50u	10	2.5m	2.5	0.0	200 †	500u	80	33n†	07	G029	DL14x
16	TL811CJ	18	200m	5.0u†	6.0m	10u	50u	10	2.5m	2.5	1.0	200 †	500u	80	33n†	07	G029	DL14ah
17	TL811CN	18	200m	5.0u†	6.0m	10u	50u	10	2.5m	2.5	1.0	200 †	500u	80	33n†	07	G029	DL14bn
18	TL811CU	18	200m	5.0u†	6.0m	10u	50u	10	2.5m	2.5	1.0	200 †	500u	80	33n†	07	G029	Δ004AE
19	uA711DM*	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	1.0	200 †	500u	58	40n†	5C	G006	DL14br
20	uA711FØ	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	54	40n†	5C	G006	DL14bn
21	uA711FM*	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	1.0	200 †	500u	58	40n†	5C	G006	FP2w
22	uA711HM*	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	1.0	200 †	500u	58	40n†	5C	G006	TO100
23	uA711KØ	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	54	40n†	5C	G006	TO100
24	uA711NØ	18	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	54	40n†	5C	G006	DL14aw
25	MC1711CGØ	18	200m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	07	G006	TO100
26	MC1711CLØ	18	200m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	07	G006	TO116
27	MC1711CPØ	18	200m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	07	G006	DL14az
28	JANM38510/10302BCAØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049a	FP24a
29	JANM38510/10302BCBØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049a	FP24a
30	JANM38510/10302BCCØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049a	FP24a
31	JANM38510/10302BHAØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049b	FP2r
32	JANM38510/10302BHBØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049b	FP2r
33	JANM38510/10302BHCØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049b	FP2r
34	JANM38510/10302BIAØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049	CN10e
35	JANM38510/10302BIBØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049	CN10e
36	JANM38510/10302BICØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049	CN10e
37	JANM38510/10302CCAØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049a	FP24a
38	JANM38510/10302CCBØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049a	FP24a
39	JANM38510/10302CCCØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049a	FP24a
40	JANM38510/10302CHAØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049a	FP24a
41	JANM38510/10302CHBØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049b	FP2r
42	JANM38510/10302CHCØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049b	FP2r
43	JANM38510/10302CIAØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049	CN10e
44	JANM38510/10302CIBØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049	CN10e
45	JANM38510/10302CICØ	18	205m	10u	3.5m§	10u§	75u§	14 Δ	100u	2.5	1.0		500u	57	60n	5C	G049	CN10e
46	uA711CJ	18	230m	5.0u†	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40n†	07	G006	DL14ah
47	uA711CL	18	230m	5.0u†	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40n†	07	G006	CN10q
48	uA711CU	18	230m	5.0u†	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40n†	07	G006	Δ004AE
49	LM711CHØ	18	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	1.0	200 †	500u	56	40n†	07	G029	CN17j
50	LM711CNØ	18	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	1.0	200 †	500u	56	40n†	07	G029	DL14z
51#	MA711CJ	18	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40 †	5C	G006	DL14ah
52#	MA711CN	18	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40 †	5C	G006	DL14x
53#	SFC2711ECØ	18	230m	5.0u†	10m	2.5u	150u	10	2.5	2.5	0.0	200 †	500u	64 †	40n†	07	G006	TO116
54#	TL711CJ	18	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40 †	5C	G006	DL14ah
55#	TL711CN	18	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40 †	5C	G006	DL14x
56	uA711CFØ	18	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	54	40n†	07	G006	DL14bn
57	uA711CKØ	18	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	54	40n†	07	G006	TO100
58	uA711CNØ	18	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	54	40n†	07	G005	DL14aw
59	uA711DC*	18	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	1.0	200 †	500u	57	40n†	07	G006	DL14br
60	uA711HC*	18	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	1.0	200 †	500u	57	40n†	07	G006	TO100
61	uA711PC*	18	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	1.0	200 †	500u	57	40n†	07	G006	DL16z
62	LM1514JØ	18	300m	3.0u†	3.0m	7.0u	45u	10	2.5m	2.5	1.0	200 †	2.8m	60	30n†	5C	G038	DL14bf
63	MC1514L*	18	300m	3.0u†	3.0m	3.0u§	20u§	10	2.5	2.5	1.0	200 †	2.8m	62	40n†	5C	G012	TO116
64	LM1414JØ	18	300m	5.0u†	6.5m	7.5u	40u	10	2.5m	2.5	1.0	200 †	1.6m	58	30n†	07	G038	DL14bf
65	LM1414NØ	18	300m	5.0u†	6.5m	7.5u	40u	10	2.5m	2.5	1.0	200 †	1.6m	58	30n†	07	G038	DL14z
66	MC1414L*	18	300m	5.0u†	6.5m	7.5u	40u	10	2.5	2.5	1.0	200 †	1.6m	60	40n†	07	G012	TO116
67	MC1414P*	18	300m	5.0u†	6.5m	7.5u	40u	10	2.5	1.0		200 †	1.6m	60	40n	07	G012	DL14az
68#	HA1807*	18	500m	5.0m	5.0m	150n	3.0u		4.0	400m§				75		5C	G093	DL14cs
69#	HA1813PS	18	500m	5.0m	5.0m	150n	3.0u		4.0	400m§				75		5C	G093a	DL8au
70	LM181H	20			3.0m	3.0u	20u	12 Δ	200u	2.4	400m§Δ			69 †	5C	G038	CN10n	
71	LM181J	20			3.0m	3.0u	20u	12 Δ	200u	2.4	400m§Δ			70 †	5C	G038	DL14bf	
72	LM261J	20			3.0m	3.0u	20u	12 Δ	200u	2.4	400m§Δ			70 †	28	G039		

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C RATED SPECS		INPUT CHARACTERISTICS							OUTPUT CHAR. @ 25°C			W/C TRANSFER		T C E O M D P E	DRAWINGS	
		1) TOT. VOLT (ΔV)	2) MAX IDLE P (W)	OVER OPERATING TEMP. RANGE				@ 25°C		MIN. OUTPUT VOLTAGE		MAX. CURR SINK (A)	VOLT. GAIN (dB)	RESP. TIME (s)				
				3) DRIFT (V/°C)	4) OFFSET (V)	OFFSET (A)	BIAS (A)	MIN CM RANGE (ΔV)	STROBE CUR-MAX (A)	POS (V)	NEG (V)							
1#	LA3110	22	100mΔ														G114	MS2
2#	LA2400	22	200mΔ														G107	MS38
3	LM106H883	24	160m	10u	3.0m	7.0u	45u	22	10	3.3m	2.5	5.5 Δ	16m	84	40n		G005	DL14ah
4	LM106H	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005c	DL14ah
5	LM106J	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005	DL8v
6	LM106JG	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005	DL8v
7#	LM106N	24	163m	10u	3.0m	7.0u	45u	10	10	3.3m	2.5	0.0	500m	100m	25	†	G005a	DL14x
8#	LM106P	24	163m	10u	3.0m	7.0u	45u	10	10	3.3m	2.5	0.0	500m	100m	40n		G005	DL8q
9	LM106U	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005a	Δ004AA
10	LM206F	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	40n		G005a	FP29a
11	LM206H	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	5.5 Δ	16m	92	40n		G005	CN1d
12	LM206J	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005c	DL14ah
13	LM206JG	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005	DL8v
14	LM206N	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005c	DL14bw
15	LM206P	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005	DL8p
16	LM206U	24	163m	10u	3.0m	7.0u	45u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005a	Δ004AA
17	LM306H	24	163m	20u	6.5m	7.5u	40u	10	10	3.3m	2.5	5.5 Δ	16m	92	40n†		G005	CN1d
18	LM306J	24	163m	20u	6.5m	7.5u	40u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005c	DL14ah
19	LM306JG	24	163m	20u	6.5m	7.5u	40u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005	DL8v
20	LM306N	24	163m	20u	6.5m	7.5u	40u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005c	DL14bw
21	LM306P	24	163m	20u	6.5m	7.5u	40u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005	DL8p
22	LM306U	24	163m	20u	6.5m	7.5u	40u	10	10	3.2m	2.5	400m\$Δ	16m	92	28n†		G005a	Δ004AA
23	TL506MJ	24	326m	10u	3.0m	7.0u	45u	10	10	3.3m	2.5	400m\$Δ	16m	92	28n†		G005b	DL8v
24#	TL506MN	24	326m	10u	3.0m	7.0u	45u	10	10	3.3m	2.5	1.5 Δ	100m	92	40n		G005a	DL14x
25	TL506CJ	24	326m	20u	6.5m	7.5u	40u	10	10	3.3m	2.5	400m\$Δ	16m	92	28n†		G005b	DL14ah
26	TL506CN	24	326m	20u	6.5m	7.5u	40u	10	10	3.3m	2.5	400m\$Δ	16m	92	28n†		G005b	DL14bw
27	TL506CW	24	326m	20u	6.5m	7.5u	40u	10	10	3.3m	2.5	400m\$Δ	16m	92	28n†		G005b	Δ004AA
28	CMP05AJ(M)	24	500mΔ	1.5u†	250u	80n	1.2u	6.0	2.4	2.4	8.0 Δ	50n†	8.0 Δ	50n†			G109	TO99
29	CMP05AZ(M)	24	500mΔ	1.5u†	250u	80n	1.2u	6.0	2.4	2.4	8.0 Δ	50n†	8.0 Δ	50n†			G109	DL8ba
30	CMP05EJ(A)	24	500mΔ	1.5u†	250u	80n	1.2u	6.0	2.4	2.4	8.0 Δ	50n†	8.0 Δ	50n†			G109	TO99
31	CMP05EP	24	500mΔ	1.5u†	250u	80n	1.2u	6.0	2.4	2.4	8.0 Δ	50n†	8.0 Δ	50n†			G109	DL8e
32	CMP05BJ(M)	24	500mΔ	1.8u†	600u	150n	1.8u	6.0	2.4	2.4	7.0 Δ	50n†	7.0 Δ	50n†			G109	TO99
33	CMP05BZ(M)	24	500mΔ	1.8u†	600u	150n	1.8u	6.0	2.4	2.4	7.0 Δ	50n†	7.0 Δ	50n†			G109	DL8ba
34	CMP05FJ(A)	24	500mΔ	1.8u†	600u	150n	1.8u	6.0	2.4	2.4	7.0 Δ	50n†	7.0 Δ	50n†			G109	TO99
35	CMP05FP	24	500mΔ	1.8u†	600u	150n	1.8u	6.0	2.4	2.4	7.0 Δ	50n†	7.0 Δ	50n†			G109	DL8ba
36	CMP05FZ(M)	24	500mΔ	1.8u†	600u	150n	1.8u	6.0	2.4	2.4	7.0 Δ	50n†	7.0 Δ	50n†			G109	DL8ba
37#	TCA965	27	100mΔ		20m\$	50n\$	3.0u\$					50m					G118	TO116
38#	LA3120	28	570mΔ				1.0u			4.0			85				G114	MS2
39	DF3302DP	28	900mΔ		40m	300n	1.0u	34				6.0m	2.0 Δ	1.3u†			G110	TO116
40#	M51209P	28	900mΔ		7m\$	50n\$	100n\$					60mΔ	200n†				G091	DL14c
41	HA4905-5*	30	327n		7.5m\$	50n\$	150n\$	15		3.5	200m\$†	3.5m	112	180n†			G091	DL16cf
42	HA4905-6*	30	327n		7.5m\$	50n\$	150n\$	15		3.5	200m\$†	3.5m	112	180n†			G091	CH36
43	ICL8001MTZ	30	60m	3.0u†	4.0m	100u	200u	20		7.0	200m†	2.0m	84	250n†			G020	TO100
44	ICL8001CTZ	30	60m	3.0u†	6.0m	100u	300u	20		7.0	200m†	2.0m	84	250n†			G020	TO100
45	CA3290BS0	30	90m	8.0u†	3.5m†	22n	30p\$	26		36	400m\$Δ	6.0m	94	200n†			G079b	CN46
46	CA3290BT0	30	90m	8.0u†	3.5m†	22n	30p\$	26		36	400m\$Δ	6.0m	94	200n†			G079c	Δ002AL
47	CA3290AE10	30	90m	8.0u†	8.5m†	28n	40p\$	26		36	400m\$Δ	6.0m	88	200n†			G079c	Δ001AB
48	CA3290AE0	30	90m	8.0u†	8.5m†	28n	40p\$	26		36	400m\$Δ	6.0m	88	200n†			G079a	DL8ad
49	CA3290AS0	30	90m	8.0u†	8.5m†	28n	40p\$	26		36	400m\$Δ	6.0m	88	200n†			G079b	CN46
50	CA3290AT0	30	90m	8.0u†	8.5m†	28n	40p\$	26		36	400m\$Δ	6.0m	88	200n†			G079c	Δ002AL
51	CA3290E10	30	90m	8.0u†	8.5m†	32n	50p\$	26		36	400m\$Δ	6.0m	88	200n†			G079c	Δ001AB
52	CA3290E0	30	90m	8.0u†	8.5m†	32n	50p\$	26		36	400m\$Δ	6.0m	88	200n†			G079a	DL8ad
53	CA3290S0	30	90m	8.0u†	8.5m†	32n	50p\$	26		36	400m\$Δ	6.0m	88	200n†			G079b	CN46
54	CA3290T0	30	90m	8.0u†	8.5m†	32n	50p\$	26		36	400m\$Δ	6.0m	88	200n†			G079c	Δ002AL
55	L181AL*	30	105m		6.0m	60n\$	400n\$	28		14	14	86	5.0u	50n†			G073	FP44
56	L181AP*	30	105m		6.0m	60n\$	400n\$	28		14	14	86	5.0u	50n†			G073	16-36
57	L181BL*	30	105m		6.0m\$	90n\$	600n\$	28		14	14	84	5.0u	50n†			G073	FP44
58	L181BP*	30	105m		6.0m\$	90n\$	600n\$	28		14	14	84	5.0u	50n†			G073	16-36
59	L181CJ*	30	105m		6.0m\$	90n\$	600n\$	28		14	14	84	5.0u	50n†			G073	DL16bg
60	uA734DM	30	105m	15u	4.0m	20n	150n	20		7.0	400m\$Δ	3.2m	91	200n†			G041	DL14br
61	uA734HM	30	105m	15u	4.0m	20n	150n	20		7.0	400m\$Δ	3.2m	91	200n†			G041	TO100
62	uA734DC	30	105m	20u	7.5m	45n	150n	20		7.0	400m\$Δ	3.2m	91	200n†			G041	DL14br
63	uA734HC	30	105m	20u	7.5m	45n	150n	20		7.0	400m\$Δ	3.2m	91	200n†			G041	TO100
64	AM1500DL	30	129m		4.0m	20n	150n	26				106	150n†				G050d	DL16cc
65	AM1500DM	30	129m		4.0m	20n	150n	26				106	150n†				G050d	DL16cc
66	AM1500FM	30	129m		4.0m	20n	150n	26				106	150n†				G050d	FP19
67#	ESM1600B	30	150m				5.0u			1.5		15m		1.0u*†			G087	TO116
68	CMP01N	30	153mΔ	1.5u†	0.8m\$	25n\$	600n\$	24		2.4			100n†				G052c	CH58
69	CMP02N	30	153mΔ	1.5u†	0.8m\$	3.0n\$	15											

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						OUTPUT CHAR. @ 25°C				W/C TRANSFER		T C	DRAWINGS
		1 | TOT. VOLT (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT		MIN. OUTPUT VOLTAGE		MIN. CURR SINK (A)	W/C CHAR. RESP. TIME (s)	E C	P E				
				3 | MAX VOLTAGE (V/°C)	4 | OFFSET (V)	MAX (A)	BIAS (A)	MIN RANGE (ΔV)	STROBE CUR-MAX (A)					POS (V)	NEG (V)		
1	LF211H	30	165m	6.0m	3.0n	7.0n	27	3.0m									
2	JANM38510/10304BCA	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
3	JANM38510/10304BCB	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
4	JANM38510/10304BCC	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
5	JANM38510/10304BGA	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
6	JANM38510/10304BGB	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
7	JANM38510/10304BGC	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
8	JANM38510/10304BHA	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050a	FP31
9	JANM38510/10304BHB	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050a	FP31
10	JANM38510/10304BHC	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050a	FP31
11	JANM38510/10304BPA	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050c	DL8ar
12	JANM38510/10304BPB	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050c	DL8ar
13	JANM38510/10304BPC	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050c	DL8ar
14	JANM38510/10304CCA	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
15	JANM38510/10304CCB	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
16	JANM38510/10304CCC	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
17	JANM38510/10304CGA	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
18	JANM38510/10304CGB	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
19	JANM38510/10304CGC	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050b	DL14bb
20	JANM38510/10304CHA	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050a	FP31
21	JANM38510/10304CHB	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050a	FP31
22	JANM38510/10304CHC	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050a	FP31
23	JANM38510/10304CPA	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050c	DL8ar
24	JANM38510/10304CPB	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050c	DL8ar
25	JANM38510/10304CPC	30	165m	25u	3.0m	20n	200n	30 Δ	3.0m	32	1.5 Δ	50mΔ	98	300n	5C	G050c	DL8ar
26	uA111HM	30	165m	6.0m	4.0m	20n	150n	28	3.0m	25	400mΔ	8.0m	106	200n	5C	G050c	DL14b
27	uA111RM	30	165m	6.0m	10m	70n	300n	28	3.0m	28	400mΔ	8.0m	106	200n	5C	G050c	DL14b
28	LM311F	30	187m	4.0m	20n	150n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL14y
29	uPC271C	30	187m	7.5m	50m	250m	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8h
30	uPC271D	30	187m	7.5m	50m	250m	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8an
31	uPC311C	30	187m	7.5m	50m	250m	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8h
32	CA311E	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8ad
33	CA311S	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8ad
34	CA311T	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8ad
35	LH2311FZ*	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL16ab
36	LM311D	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050b	DL14bv
37	LM311DE	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050b	DL14bv
38	LM311F	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050b	DL14bn
39	LM311J	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8aq
40	LM311J	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050b	DL11g
41	LM311JG	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8v
42	LM311N14	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050b	DL14z
43	LM311N2	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050c	DL8ao
44	LM311N-14	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050b	DL14aw
45	LM311P	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL14y
46	LM311T	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL14y
47	LM311U	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL14y
48	LM311V	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL14y
49	uA311HC	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8g
50	uA311RC	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050c	DL8af
51	uA311TC	30	187m	10m	70n	300n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050c	DL8af
52	LF311H	30	187m	15m	1.0n	3.0n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G050	DL8d
53	PM311(A)	30	188m	7.5m	50n	250n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G108A	TO99
54	PM311(A)	30	188m	7.5m	50n	250n	28	3.0m	28	3.0m	15	200m	106	200n	5C	G108B	TO99
55	AM150DDC	30	189m	10m	70n	300n	26	3.0m	26	3.0m	1.5	50m	106	200n	5C	G050d	DL16cc
56	AMLM311	30	189m	10m	70n	300n	26	3.0m	26	3.0m	1.5	50m	106	200n	5C	G050d	TO99
57	AMLM311D	30	189m	10m	70n	300n	26	3.0m	26	3.0m	1.5	50m	106	200n	5C	G050d	DL14m
58	SG311J	30	225m	10m	70n	300n	28	3.0m	28	3.0m	1.5	50m	106	200n	5C	G050	TO116
59	SG311M	30	225m	10m	70n	300n	28	3.0m	28	3.0m	1.5	50m	106	200n	5C	G050	DL8h
60	SG311T	30	225m	10m	70n	300n	28	3.0m	28	3.0m	1.5	50m	106	200n	5C	G050	TO99
61	AMLM119D	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	130n	5C	G035	DL14bn
62	AMLM119F	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	130n	5C	G035	CN10e
63	AMLM119H	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	130n	5C	G035	CN10n
64	AMLM219D	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	130n	2B	G035	FP37
65	AMLM219H	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	130n	2B	G035	DL14bn
66	LM119F	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	5C	G035	CN10c
67	LM119FZ0	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	5C	G035	DL14bn
68	LM119H883	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	130n	5C	G035	CN10e
69	LM119H	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	5C	G035	CN10n
70	LM119J0	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	5C	G035	DL14bf
71	LM119K0	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	5C	G035	TO100
72	LM119N	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	5C	G035	DL14aw
73	LM219F	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	2B	G035	FP37
74	LM219FZ0	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	2B	G035	DL14bn
75	LM219H	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	2B	G035	CN10c
76	LM219J0	30	240m	7.0m	100n	1.0u	26	26	26	26	26	26	80	80n	2B	G035	DL14bf
77	LM219K0	30	240m	7.0m	100n	1.0u	26	26									

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS							OUTPUT CHAR. @ 25°C			W/C TRANSFER CHAR. @25°C		T O M P E	C K T.	D R A W I N G S	
		1] TOT. VOLT (ΔV)	2] MAX IDLE P (W)	OVER OPERATING TEMP. RANGE		MAX CURRENT			MIN CM STROBE RANGE		MIN. OUTPUT VOLTAGE		MAX. OUT RES. (Ω)	MIN. CURR SINK (A)	VOL. GAIN (dB)				RESP. TIME (s)
				3] DRIFT (V/°C)	4] OFFSET (V)	5] MAX (A)	6] BIAS (A)	7] RANGE (ΔV)	8] STROBE (A)	9] POS (V)	10] NEG (V)								
1	LM319N	30	282m	10m	300n	1.2u	26	26											
2#	TDA0319D	30	282m	10m	300n	1.2u	26	26											
3	HA4900-2*	30	280m	3.0m§	25n§	75n§	27 §	§											
4	HA4900-8*	30	280m	3.0m§	25n§	75n§	27 §	§											
5	uA111FM	30	495m	3.0m§	10n	100n													
6	CTS111GB	30	500mΔ	3.0m	10n	100n			3.0m†										
7	CTS2111EB(A)	30	500mΔ	3.0m	10n	100n													
8	CTS111H/B	30	500mΔ	4.0m	20n	150n													
9	TL311AJ	30	500mΔ	10m	4.0n	10n	27		-3m†										
10	TL311AJG	30	500mΔ	10m	4.0n	10n	27		-3m†										
11	TL311AN	30	500mΔ	10m	4.0n	10n	27		-3m†										
12	TL311J	30	500mΔ	13m	4.0n	10n	27		-3m†										
13	TL311JG	30	500mΔ	13m	4.0n	10n	27		-3m†										
14	TL311N	30	500mΔ	13m	4.0n	10n	27		-3m†										
15	TL311P	30	500mΔ	13m	4.0n	10n	27		-3m†										
16	TL111J	30	500mΔ	0.5 §†	20n	50n	27		-3m†										
17	TL111JG	30	500mΔ	0.5 §†	20n	50n	27		-3m†										
18	HA4950-2	30	549mΔ	2.8m	3.5u	7.0u	-8		30u	4.0	.45 §								
19	HA4950-5	30	549mΔ	2.8m	3.5u	7.0u	-8		30u	4.0	.45 §								
20	HA4950-8	30	549mΔ	2.8m	3.5u	7.0u	-8		30u	4.0	.45 §								
21	NE527D	30	600mΔ	10m	1.0u	4.0u			100u										
22	NE529D	30	600mΔ	10m	1.5u	5.0u			100u										
23	HA4920-2	30	780m	4.0m	2.0u	8.0u	20			3.5	400mΔ§								
24	HA4925-5	30	780m	8.0m	3.0u	10u	20			3.5	400mΔ§								
25	LM529CH	32	140m	5.0m	5.0u	30u	12		1.6m			100 †							
26	LM529CN	32	140m	5.0m	5.0u	30u	12		1.6m			100 †							
27	ESM1602	35				5.0u				1.5	1.6								
28	CMP04N#ai	36 *		1.0m	10n	100n	1.5			6.0m	80 Δ	300n†							
29	CMP04G#ai	36 *		2.0m	25n	100n	1.5			6.0m	50 Δ	300n†							
30#	MK404P(A)	36	75m	5.0m	40n	200n	30		1.0m	14	14	1.5k							
31#	SFC2111M	36	135m	3.0m	10n	100n	28												
32#	SFC2211	36	135m	3.0m	10n	100n	28												
33#	SFC2311	36	135m	7.5m	50n	250n	28												
34#	SFC2311DC	36	135m	7.5m	50n	250n	28												
35#	SFC2311EC	36	135m	7.5m	50n	250n	28												
36	SFC2311LUC	36	300mΔ	7.5m	50n	250n	28		3.0m										
37	uPC277C	36 *	350mΔ	5.0m§	250n§	50n§	34 Δ					6.0m	200 Δ	1.3u†					
38	uPC393C	36 *	350mΔ	5.0m§	250n§	50n§	34 Δ					6.0m	200 Δ	1.3u†					
39	uPC277G	36 *	440mΔ	5.0m§	250n§	50n§	34 Δ					6.0m	200 Δ	1.3u†					
40	uPC393G	36 *	440mΔ	5.0m§	250n§	50n§	34 Δ					6.0m	200 Δ	1.3u†					
41	uPC271G	36 *	440mΔ	7.5m§	50n§	250n§	34 Δ		3.0m†	30 Ø	40		200 Δ	200n†					
42	uPC311G	36 *	440mΔ	7.5m§	50n§	250n§	34 Δ		3.0m†	30 Ø	40		200 Δ	200n†					
43	LF211J	36	500mΔ	3.0m	10n	100n	28		3.0m	35 †			200 Δ	200n†					
44	LF2211J	36	500mΔ	3.0m	10n	100n	28		3.0m	35 †			200 Δ	200n†					
45	LM111H#	36	500mΔ	3.0m	10n	100n	28		3.0m†				200 Δ	200n†					
46	LM211H#	36	500mΔ	3.0m	10n	100n	28		3.0m†				200 Δ	200n†					
47#	AN1393	36	500m	5.0m	50n	250n	36					10m		1.3u†					
48#	AN6914	36	500m	5.0m	50n	250n	36							1.3u†					
49	uPC277D	36 *	500mΔ	5.0m§	250n§	50n§	34 Δ					6.0m	200 Δ	1.3u†					
50	LP165D	36	500mΔ	6.0m	50n	125n	3.0			4.5	0.4		2.4m	500 Δ	4.0u				
51	LP365AN	36	500mΔ	6.0m	50n	125n	3.0			4.5	0.4		2.4m	500 Δ	4.0u				
52	TDC0111CM	36	500mΔ	6.0m	3.0p	7.0n			3.0m				40 Δ	200n†					
53	TDE0111CM	36	500mΔ	6.0m	3.0p	7.0n			3.0m				40 Δ	200n†					
54	LM119H#	36	500mΔ	7.0m	100n	1.0u							10 Δ	200n†					
55	LM219H#	36	500mΔ	7.0m	100n	1.0u							10 Δ	200n†					
56	LM311D#	36	500mΔ	7.5m	50n	250n			3.0m†				200 Δ	200n†					
57	LP311H	36	500mΔ	7.5m	25n	100n	13		300u				40 Δ	1.2u					
58	LP311N	36	500mΔ	7.5m	25n	100n	13		300u				40 Δ	1.2u					
59	uPC271ED	36 *	500mΔ	7.5m§	50n§	250n§			3.0m†	30 Ø	40		200 Δ	200n†					
60	LP365D	36	500mΔ	9.0m	75n	200n	3.0			4.5	0.4		2.0m	300 Δ	4.0u				
61	LP365N	36	500mΔ	9.0m	75n	200n	3.0			4.5	0.4		2.0m	300 Δ	4.0u				
62	LM319H#	36	500mΔ	10m	300n	1.2u							8.0 Δ	200n†					
63	TDB0111CM	36	500mΔ	15m	1.0p†	3.0n†			3.0m				200 Δ	200n†					
64	TDB0111DP	36	500mΔ	15m	1.0p†	3.0n†			3.0m				200 Δ	200n†					
65	TDC0119CM	36	500mΔ	7.0	100n	1.0u				35 †			10 Δ	80 †					
66	TDC0119DG	36	500mΔ	7.0	100n	1.0u				35 †			10 Δ	80 †					
67	TDC0119DP	36	500mΔ	7.0	100n	1.0u				35 †			10 Δ	80 †					
68	TDE0119CM	36	500mΔ	7.0	100n	1.0u				35 †			10 Δ	80 †					
69	TDE0119DP	36	500mΔ	7.0	100n	1.0u				35 †			10 Δ	80 †					
70	TDB0119CM	36	500mΔ	10	300n	1.2u				35 †			8.0 Δ	80 †					
71	TDB0119DG	36	500mΔ	10	300n	1.2u				35 †			8.0 Δ	80 †					
72	TDB0119DP	36	500mΔ	10	300n	1.2u				35 †			8.0 Δ	80 †					
73	TDB0119FP	36	500mΔ	10	300n	1.2u				35 †			8.0 Δ	80 †					
74	LM111J8	36	500mΔ	3.0m	10n	100n	13		3.0m				40 Δ	200n†					
75	ICL8001MJD	36	500mΔ	3.0m	20n	100n	20						250n†						
76	ICL8001CJD	36	500mΔ	5.0m	50n	250n	20						250n†						
77	uPC177G	36 *	550mΔ	5.0m§	250n§	50n§	34 Δ					6.0m	200 Δ	1.3u†					
78	uPC339G	36 *	550mΔ	5.0m§	250n§	50n§	34 Δ					6.0m	200 Δ	1.3u†					
79	uPC272G	36 *	550mΔ	8.0m§	200n§	1.0m§				18	36		8.0 Δ	80n†					
80	uPC319G	36 *	550mΔ	8.0m§	200n§	1.0m§				18	36		8.0 Δ	80n†					
81	LM193AFE	36	570mΔ	4.0m	100n	300n	34					6.0m	50 Δ	1.3u†					
82	LM193FE	36	570mΔ	4.0m	100n	300n	34					6.0m	50 Δ	1.3u†					
83	LM293AFE	36	570mΔ	4.0m	150n	400n	34					6.0m	50 Δ	1.3u†					
84	LM293FE	36	570mΔ	4.0m	150n	400n	34					6.0m	50 Δ	1.3u†					
85	LM393AFE	36	570mΔ	4.0m	150n	400n	34					6.0m	50 Δ	1.3u†					
86	LM393FE	36	570mΔ	4.0m	150n	400n	34					6.0m	50 Δ	1.3u†					
87	TDB0139ADG	36	570mΔ	4.0m	150n	400n	34					6.0m	50 Δ	1.3u†					
88	TDB0139ADP	36	570mΔ	4.0m	150n	400n	34					6.0m	50 Δ	1.3u†					
89	TDC0139ADG	36	570mΔ	4.0m	100n	300n	34					6.0m	50 Δ	1.3u†					
90#	AN1339	36	570m	5.0m	50n	250n	36					10m		1.3u†					
91	TDB0139FP	36	570mΔ	5.0m	50n	250n	17					6.0m	50 Δ	1.3u†					
92	TDB0139DG	36	570mΔ	9.0m	150n	400n	34					6.0m	200 Δ	1.3u†					
93	TDB0139DP	36	570mΔ	9.0m	150n														

9. VOLTAGE COMPARATORS

IN ORDER OF: (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @ 25°C RATED SPECS		INPUT CHARACTERISTICS						OUTPUT CHAR. @ 25°C				V _I /C TRANSFER		T C		DRAWINGS		
		1 | TOT. VOLT (ΔV)	2 | MAX IDLE P (W)	OVER OPERATING		TEMP. RANGE		@ 25°C		MIN. OUTPUT VOLTAGE		MAX. OUT RES. (Ω)	MIN. CURR SINK (A)	VOLT. GAIN (dB)	RESP. TIME (s)	E O	M D	P E	CKT.	OUT-LINE Δ=MO
				3 | DRIFT (V/°C)	4 | OFFSET (V)	MAX. VOLTAGE	MAX. CURRENT	MIN. CM RANGE (ΔV)	STROBE CUR-MAX (A)	POS (V)	NEG (V)									
1#	LA6339	36 §	700m	10m	100n	250n						200	50 Δ	1.3u	27	G079	DL14be			
2	TDB0193ACM	36	830m	4.0m	150m	400n	34					6.0m	50 Δ	1.3u	07	G079b	TO99			
3	TDB0193ADP	36	830m	4.0m	150m	400n	34					6.0m	50 Δ	1.3u	07	G079a	DL8bf			
4	TDC0193CM	36	830m	4.0m	100n	300n	34					6.0m	50 Δ	1.3u	5C	G079b	TO99			
5	TDE0193ACM	36	830m	4.0m	150m	400n	34					6.0m	50 Δ	1.3u	28	G079b	TO99			
6	TDB0193CM	36	830m	9.0m	150m	400n	34					6.0m	50 Δ	1.3u	07	G079b	TO99			
7	TDB0193DP	36	830m	9.0m	150m	400n	34					6.0m	50 Δ	1.3u	07	G079a	DL8bf			
8	TDC0193ACM	36	830m	9.0m	100n	300n	34					6.0m	50 Δ	1.3u	5C	G079b	TO99			
9	TDE0193CM	36	830m	9.0m	150m	400n	34					6.0m	50 Δ	1.3u	28	G079b	TO99			
10	TF2903DP	36	830m	15m	200m	500n	34					6.0m	25 Δ	1.5u	48	G079a	DL8bf			
11	uPC177ED	36 *	900m	5.0m §	250n §	50n §	34 Δ					6.0m	200 Δ	1.3u	28	G079	DL14ca			
12	LM193AH#	36	900m	9.0m	100n	300n	20					6.0m	50 Δ	1.3u	5C	G079a	CN37b			
13	LM193H#	36	900m	9.0m	100n	300n	20					6.0m	50 Δ	1.3u	5C	G079a	CN37b			
14	LM293AH#	36	900m	9.0m	150n	400n	20					6.0m	50 Δ	1.3u	28	G079a	CN37b			
15	LM293H#	36	900m	9.0m	150n	400n	20					6.0m	50 Δ	1.3u	28	G079a	CN37b			
16	LM393AH#	36	900m	9.0m	150n	400n	20					6.0m	50 Δ	1.3u	07	G079a	CN37b			
17	LM393H#	36	900m	9.0m	150n	400n	20					6.0m	50 Δ	1.3u	07	G079a	CN37b			
18	MC3324AL	40	1.0	12m	250n	1.0u	40					30m			48	G106	DL16ba			
19	MC3324AP	40	1.0	12m	250n	1.0u	40					30m			48	G106	DL16ad			
20	MC3424AL	40	1.0	12m	250n	1.0u	40					30m			07	G106	DL16ba			
21	MC3424AP	40	1.0	12m	250n	1.0u	40					30m			07	G106	DL16ad			
22	MC3524AL	40	1.0	12m	250n	1.0u	40					30m			5C	G106	DL16ba			
23	MC3324L	40	1.0	15m	250n	1.0u	40					30m			48	G106	DL16ba			
24	MC3324P	40	1.0	15m	250n	1.0u	40					30m			48	G106	DL16ad			
25	ESM1600	45				5.0u				1.5		15m		1.0u*†	28	G087	TO116			

10. SPECIAL FUNCTIONS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	TYPE No.	U S E	PWR SUP @25°C		MIN. INPUT CHAR. @25°C	OUTPUT CHAR. @25°C		T C E O M D P E	DRAWINGS	GENERAL DESCRIPTION			
			2 TO 1 VOL. (ΔV)	3 MAX. IDLE P (W)		IMPEDANCE (Ω)	VOLT RANGE (ΔV)				MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)	
1	ICL8076-1D0JCTV												
2	9496DE		15 \$	500m		28 \$		06	X1902	TO99	AMPL-Volt Ref 10Volts;Temp Stab 3ppm/°C;Io 10ma		
3	4010J		30	750m				07			PEAK INDICATOR VARIABLE GAIN		
4	uPC4359C		1	570m	2.5k†		3.5 †	27	A514	DL14ca	Prog Current Mode Amp/High Speed/Dual		
5#	TA960S		6.0 \$	250m	25k	400m†	9.0k†	56	X105	TO100	Tri-Amp for Filter;Gv 39dB†;Ro 9.0k†;THD 2.0%		
6#	SSM2024		1	15 *				5C	X126	DL16J	Quad Class A Current Controlled Amplifier		
7	uPC209C		1	22	570m	2.5k†	3.5 †	27	A514	DL14ca	Prog Current Mode Amp/High Speed/Dual		
8	uPC209D		1	22	900m	2.5k†	3.5 †	28	A514	DL14ca	Prog Current Mode Amp/High Speed/Dual		
9	HX0002		1	24	240m	180k	100 * 10	20	5C	X101	CN11c	BW 30MHz;Gv .95.	
10	HX0002C		1	24	240m	180k	100 * 10	20	07	X101	CN11c	BW 30MHz;Gv .95.	
11	LH0002CH		1	24	240m	180k	24 10	20	08	X101	CN1d	Bandwidth 30MHz min;Gv .95;RL 1.0kΩ†.	
12	LH0002CN		1	24	240m	180k	24 10	20	08	X101a	DL10a	Bandwidth 30MHz min;Gv .95;RL 1.0kΩ†.	
13	LH0002H		1	24	240m	180k	24 10	20	5C	X101	CN1d	Bandwidth 30MHz min;Gv .95;RL 1.0kΩ†.	
14	NH0002-883		1	24	240m	180k	100 * 10	20	5C	X101	CN11c	BW 30Hz*;Ri 1.0Ω;Gv .95*	
15	BUF03G		1	30		500G\$†	23 †	2.0 \$				Volt Follower;Slew Rate 300V/USEC Max.	
16	BUF03N		1	30		500G\$†	23 †	2.0 \$				Volt Follower;Slew Rate 300V/USEC Max.	
17	MZ320		1	30	30m	1.0M	26	5.0				Hex Booster Amp;BW 20MHz SR 1.0mV/us RL 2.0kΩ	
18#	TCA410A		1	30	99m		30	1.0 †	25	27	X111	TO72	Voltage Follower.
19#	TCA410B		1	30	99m		30	1.0 †	25	27	X111	TO72	Voltage Follower.
20#	TCA410D		1	30	99m		30	1.0 †	25	27	X111a	MD6a	Voltage Follower;Gv .997Δ;Vos 10mVA.
21	LM102H		1	30	120m	10G	30 Δ	2.5	20	5C	A122	TO99	Gv .999*;SR 10V/us*;RL 10kΩ.
22	LM102F		1	30	165m	10G	30 Δ	2.5	20	5C	A122	FP2m	Gv .999*;SR 10V/us*;RL 10kΩ.
23	LM202H		1	30	165m	10G	30 Δ	2.5	20	28	A122	CN1d	Gv .999*;SR 10V/us*;RL 8kΩ.
24	LM302H		1	30	165m	10G	30 Δ	2.5	20	07	A122	CN1†	Gv.9985* FP BW SR 10V/US† RL8kΩ.
25	LH2210D		1	30	330m	10G	30 Δ	2.5	20	28	X108	DL16u	Inp Vos 6.0mVΔ;Gv .999V/V*;Inp Biasl 10nAΔ.
26	MC1438R		1	30	450m	400k†	18 10 †	22	07	X103	CN30	Gv 850mV*;BW 8.0MHz†;FP BW 1.5MHz†;RL 300Ω.	
27	HA2630		1	30	600m	2.0M†	30 Δ	2.0 †	20	5C	X115	CN2r	Current Booster;Io 700mAΔ;Bias 200uAΔ
28	HFB7		1	30	600m	100G†	30	10	20	59	X104	CN2g	BW 100MHz*;SR 1.0k V/us*
29	HX0033		1	30	660m	10G		10	19	5C	A246	CN2h	Voltage Follower;High Speed Buffer;Gv.97*;Ro 10Ω.
30	HX0033C		1	30	660m	10G		10	19	07		TO8	Voltage Follower;High Speed Buffer;Gv.97*;Ro 10Ω.
31	HA2635		1	30	690m	2.0M†	30 Δ	2.0 †	20	07	X115	CN2r	Current Booster;Io 700mAΔ;Bias 200uAΔ
32	LH0033CG		1	30	720m	10G	30 Δ	10	18	28	X109	CN18c	FET Inputs;Bandwidth 100MHz†;Gv .96.
33	2003-01		1	30	1.2	2.0m†	30 Δ	600 *	07	X123	CN2u	±400mA Typ Out;500V/us Typ Slew;8MHz Full Pwr BW	
34	2003		1	30	1.3	2.0m†	30 Δ	600 *	07	X123	CN2u	±400mA Typ Out;500V/us Typ Slew;8MHz Full Pwr BW	
35	LM110D		1	36	198m	10G	30 Δ	2.5	20	5C	A122	DL14bv	Bandwidth 20MHz;Gv .999*;SR 30V/us.
36	LM110F		1	36	198m	10G	30 Δ	2.5	20	5C	A122	FP3†	Bandwidth 20MHz;Gv .999*;SR 30V/us.
37	LM110H		1	36	198m	10G	30 Δ	2.5	20	5C	A122	CN1d	Bandwidth 20MHz;Gv .999*;SR 30V/us.
38	LM110J		1	36	198m	10G	30 Δ	2.5	20	5C	A122	DL14bf	Bandwidth 20MHz;Gv .999*;SR 30V/us.
39	LM210H		1	36	198m	10G	30 Δ	2.5	20	28	A122	CN1d	Bandwidth 20MHz;Gv .999*;SR 30V/us.
40	LM210J		1	36	198m	10G	30 Δ	2.5	20	28	A122	DL14bf	Bandwidth 20MHz;Gv .999*;SR 30V/us.
41	LM310D		1	36	198m	10G	30 Δ	2.5	20	07	A122	DL14bv	Bandwidth 20MHz;Gv .999*;SR 30V/us.
42	LM310H		1	36	198m	10G	30 Δ	2.5	20	07	A122	CN1d	Bandwidth 20MHz;Gv .999*;SR 30V/us.
43	LM310J8		1	36	198m	10G	30 Δ	2.5	20	07	A122	DL8aq	Bandwidth 20MHz;Gv .999*;SR 30V/us.
44	LM310J		1	36	198m	10G	30 Δ	2.5	20	07	A122	DL14bf	Bandwidth 20MHz;Gv .999*;SR 30V/us.
45	LM310N		1	36	198m	10G	30 Δ	2.5	20	07	A122	DL8ah	Bandwidth 20MHz;Gv .999*;SR 30V/us.
46	JANM38510/10602BGA		1	36	198m		30 Δ	2.5	20	5C	X113	CN1k	Hi-Speed Volt Follower;BW 8MHz;Slew Rate 20V/uSmin
47	JANM38510/10602BGB		1	36	198m		30 Δ	2.5	20	5C	X113	CN1k	Hi-Speed Volt Follower;BW 8MHz;Slew Rate 20V/uSmin
48	JANM38510/10602BGC		1	36	198m		30 Δ	2.5	20	5C	X113	CN1k	Hi-Speed Volt Follower;BW 8MHz;Slew Rate 20V/uSmin
49	JANM38510/10602CGA		1	36	198m		30 Δ	2.5	20	5C	X113	CN1k	Hi-Speed Volt Follower;BW 8MHz;Slew Rate 20V/uSmin
50	JANM38510/10602CGB		1	36	198m		30 Δ	2.5	20	5C	X113	CN1k	Hi-Speed Volt Follower;BW 8MHz;Slew Rate 20V/uSmin
51	JANM38510/10602CGC		1	36	198m		30 Δ	2.5	20	5C	X113	CN1k	Hi-Speed Volt Follower;BW 8MHz;Slew Rate 20V/uSmin
52	MC1538R		1	36	198m		30 Δ	2.5	20	5C	X113	CN1k	Hi-Speed Volt Follower;BW 8MHz;Slew Rate 20V/uSmin
53	ICH8510MKA		1	40	300m	400k†	22 10 †	24	5C	X103	CN30	Gv 900mV*;BW 8.0MHz†;FP BW 1.5MHz†;RL 300Ω.	
54	ICH8520MKA		1	60	2.4	10k	20	20	30	5C	X125	CN22g	Power Amplifier Motor and Actuator Driver
55	ICH8530MKA		1	60	2.4	10k	20	20	30	5C	X125	CN22g	Power Amplifier Motor and Actuator Driver
56	ICH8510IKA		1	60	3.0	10k	20	20	30	28	X125	CN22g	Power Amplifier Motor and Actuator Driver
57	ICH8520IKA		1	60	3.0	10k	20	20	30	28	X125	CN22g	Power Amplifier Motor and Actuator Driver
58	ICH8530IKA		1	60	3.0	10k	20	20	30	28	X125	CN22g	Power Amplifier Motor and Actuator Driver
59#	SL1523C		2	5.2	208m			1.0	5C	Z6987	TO71	Dual Wideband Log Amp;2 SL1521 S in Series	
60#	SL525C		2	6.0 \$	90m†		1.8 \$	850u*	2A	X214	CN11e	Log Amp;BW 5.0-150MHz;GV 14dBΔ;No 5.25dBΔ	
61#	SL1613C		2	6.0	120m				38		DL8ax	Wideband Log IF Strip Amp;Cent Freq 10-60MHz	
62#	SL523B		2	6.0	180m				5C	X218	TO5	Dual WideBnd Log Amp;Detect at Cent Frg 10-100MHz	
63#	SL523C		2	6.0	180m				5C	X218	TO5	Dual WideBnd Log Amp;Detect at Cent Freq 10-100MHz	
64#	SL523H		2	6.0	180m				5C	X218	TO5	SL523B w/Match Set of 8 Device;Gain at 60MHz .75db	
65#	SL531C		2	9.0	270m				5C		TO5	True Log If Amp;Wideband;10-200MHz Cent Freqs	
66	AD539JD		2	10	450mΔ	500			07	X221	DL16J	Log/Linear Multiplier 2-Quadrant;Wideband	
67	AD539SD		2	10	450mΔ	500			5C	X221	DL16J	Log/Linear Multiplier 2-Quadrant;Wideband	
68	TL441CJ		2	12	201m	500 †		200	07	X212		4 Stage Log Amp;Log Linearity (30dB Sec) 1dBV	
69	TL441CN		2	12	201m	500 †		200	07	X212		4 Stage Log Amp;Log Linearity (30dB Sec) 1dBV	
70	TL441MJ		2	12	201m	500 †		200	5C	X212		4 Stage Log Amp;Log Linearity (30dB Sec) 1dBV	
71#	TL441MN		2	12	201m	500 †	1.0	200 †	5C	X201	DL16b	Bandwidth DC to 40 MHz	
72	CTS861H/B		2	15 \$					5C	G105	TO5	Log IF Amp;RF Gain 13.5dB max;Mid Freq 10MHZ-100M	
73	SSM2100(A)		2	30					15	X222	DL14J	Log/Antilog Amplifier	
74	ICL8048BCDE		2	30	200m				07	X206	DL16au	Log Amp;Dyn Rng 120dB(1.0nA-1.0mA).	
75	ICL8048BCPE		2	30	200m				2.0	07	X206	DL16an	Log Amp;Dyn Rng 120dB(1.0nA-1.0mA).
76	ICL8048CCDE		2	30	200m				24	07	X206	DL16au	Log Amp;Dyn Rng 120dB(1.0nA-1.0mA).
77	ICL8048CCPE		2	30	200m				24	07	X206	DL16an	Log Amp;Dyn Rng 120dB(1.0nA-1.0mA).
78	ICL8049BCDE		2	30	200m				24	07	X207	DL16au	Antilog Amp;Dyn Rng 60dB;Vo24Vpp;PSRR 2.0uV/V†.
79	ICL8049BCPE		2	30	200m				24	07	X207	DL16an	Antilog Amp;Dyn Rng 60dB;Vo24Vpp;PSRR 2.0uV/V†.
80	ICL8049CCDE		2	30	200m				24	07	X207	DL16au	Antilog Amp;Dyn Rng 60dB;Vo24Vpp;PSRR 2.0uV/V†.
81	ICL8049CCPE		2	30	200m				24	07	X207	DL16an	Antilog Amp;Dyn Rng 60dB;Vo24Vpp;PSRR 2.0uV/V†.
82#	MM109CP		3	10	220m	1.0k	60m†	350 †	2.0 †	07	X325	MD8J	4 Quad Multiplier For Video;55MHz Bandwidth
83	4213AM		3	15 *		10M†	10 †	1.5	10 *	5C	X322	TO100	MULT/DIV;4 Quadrant Mult;Sq Roots
84	4213BM		3	15 *		10M†	10 †	1.5	10 *	5C	X322	TO100	MULT/DIV;4 Quadrant Mult;Sq Roots
85	4213SM		3	15 *		10M†	10 †	1.5	10 *	5C	X322	TO100	MULT/DIV;4 Quadrant Mult;Sq Roots
86	MPY100AG		3	15 *		10M	10 †	1.5	10 *	5C	X323	DL14cj	MULT/DIV;4 Quadrant Mult;Sq Root
87	MPY100AM		3	15 *		10M†	10 †	1.5 †	10 *	5C	X323	TO100	Mult/Div;4 Quadrant Mult; Sq Roots
88	MPY100BG		3	15 *		10M†	10 †	1.5 †	10 *	5C	X323	DL14cj	Mult/Div;4 Quadrant Mult; Sq Roots
89	MPY100BM		3	15 *		10M†	10 †	1.5 †	10 *	5C	X323	TO100	Mult/Div;4 Quadrant Mult;Sq Roots
90	MPY100CG		3	15 *									

10. SPECIAL FUNCTIONS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	TYPE No.	USE	PWR SUP @25°C		MIN. INPUT		OUTPUT		T C	D	DRAWINGS	GENERAL DESCRIPTION
			RATED	SPECS	CHAR. @25°C	CHAR. @25°C	MAX. IMP.	MIN VOLT RANGE				
			[2] TOT. VOLT. (ΔV)	[3] MAX. IDLE P (W)	IMPEDANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)	M	E	PKT.	OUT-LINE Δ=MO
1▼	AD534JD#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO116	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
2♦	AD534JH#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO100	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
3▼	AD534KD#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO116	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
4♦	AD534KH#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO100	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
5▼	AD534LD#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO116	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
6♦	AD534LH#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO100	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
7▼	AD534S/883B#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	5C	X316	TO116	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
8▼	AD534SD#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	5C	X316	TO116	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
9♦	AD534SH#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	5C	X316	TO100	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
10▼	AD534T/883B#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	5C	X316	TO116	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
11▼	AD534TD#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	5C	X316	TO116	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
12♦	AD534TH#1	3	15 *	90m	10M†	12 ♀	100m†	11 *	5C	X316	TO100	4 Quadrant Mult;Error ±1% Max;1MHz BW3dB
13	XR2208CP§	3	15	625m	1.0M†		6.0k†		07	A257	DL16ao	Op Multiplier;3dB BW 8MHz;Non-Linearity .8%Δ
14	XR2208P§	3	15	625m	500k		6.0k†		07	A257	DL16ao	Op Multiplier;3dB BW 8MHz;Non-Linearity .8%Δ
15	A8495#1	3	15	750m	20M†	12 †	300k†	14 †	07	A257	DL16ao	4 Quadrant;BW3dB 3.0MHz;Common Mode Gain -50dB Typ
16	XR2208CN§	3	15	750m	1.0M†		6.0k†		07	A257	DL16ao	Op Multiplier;3dB BW 8MHz;Non-Linearity .8%Δ
17	XR2208M§	3	15	750m	500k		6.0k†		07	A257	DL16ao	Operational;3dB BW 8MHz;Non Linearity 1%Δ
18	XR2208N§	3	15	750m	500k		6.0k†		07	A257	DL16ao	Op Multiplier;3dB BW 8MHz;Non-Linearity 1%Δ
19	AD632AD	3	30			20	100m		SC	X324	TO116	Precision Multiplier;4-Quadrant Multiplier/Divider
20	AD632AH	3	30			20	100m		SC	X322	TO100	Precision Multiplier;4-Quadrant Multiplier/Divider
21	AD632BD	3	30			20	100m		SC	X324	TO116	Precision Multiplier;4-Quadrant Multiplier/Divider
22	AD632BH	3	30			20	100m		SC	X322	TO100	Precision Multiplier;4-Quadrant Multiplier/Divider
23	AD632SD	3	30			20	100m		SC	X324	TO116	Precision Multiplier;4-Quadrant Multiplier/Divider
24	AD632SH	3	30			20	100m		SC	X322	TO100	Precision Multiplier;4-Quadrant Multiplier/Divider
25	AD632TD	3	30			20	100m		SC	X324	TO116	Precision Multiplier;4-Quadrant Multiplier/Divider
26	AD632TH	3	30			20	100m		SC	X322	TO100	Precision Multiplier;4-Quadrant Multiplier/Divider
27	AD532J	3	30	108m		20	1.0	20	07	CH16z	TO100	ANALOG Multiplier;Error ±2.0% max.
28	AD532K	3	30	108m		20	1.0	20	07	CH16z	TO100	Analog Multiplier;Error ±1.0% max
29	AD534J	3	30	108m		20	0.1	22	07	CH16ad	TO100	4 Quadrant Mult;Error ±0.5% Min;1.0MHz BW3dB
30	AD534K	3	30	108m		20	0.1	22	07	CH16ad	TO100	4 Quadrant Mult;Error ±0.5% Min;1.0MHz BW3dB
31	M540J	3	30	120m†			1.0 †	20	06	X312	TO100	Mult/Divider;Sq;Sq-Router;BW1.0MHz;Also DIP Pkg.
32	M540K	3	30	120m†			1.0 †	20	06	X312	TO100	Mult/Divider;Sq;Sq-Router;BW1.0MHz;Also DIP Pkg.
33	AD532S#mil	3	30	132m		20	1.0	20	5C	CH16z	TO100	ANALOG Multiplier;Error ±1.0% max.
34	4205J	3	30	135m	36k	20	1.0	20	06	X311	TO100	4 Quad Mult/Divider/Sq router;Error(Int trim)2%max
35	4205K	3	30	135m	36k	20	1.0	20	06	X311	TO100	4 Quad Mult/Divider/Sq router;Error(Int trim)1%max
36	4205S	3	30	135m	36k	20	1.0	20	5C	X311	TO100	4 Quad Mult/Divider/Sq router;Error(Int trim)1%max
37	SG1495J	3	30	170m	20M†		300k†	28 †	07	X301	TO116	Acc 3.0%†;BW 3dB 3.0MHz;Input loss 2.0Δ
38	SG1495N	3	30	170m	20M†	30 Δ	300k†	28 †	07	X301	DL14u	Acc 4.0%Δ; BW 3dB3.0MHz; Com.Mode 60V-50dB†
39	SG1595J	3	30	170m	35M†		300k†	28 †	5C	X301	TO116	Acc 1.5%†;BW 3dB 3.0MHz;Input loss 1.0Δ
40	AD530JD#1	3	30	180m	36k†	20	2.0k‡	20	07	TO116	TO116	Error 2%Δ;XY/10 Multiplier with OPAMP.
41	AD530KD#1	3	30	180m	36k†	20	2.0k‡	20	07	TO116	TO116	Error 1%Δ;XY/Z Multiplier with OPAMP.
42	AD532JD#1	3	30	180m	10M†	20	1.0 †	20	07	X307	TO116	4 Quadrant Pre-Trimmed Mon;Error ±2%Δ;SR 45V/us.
43	AD532JH#1	3	30	180m	10M†	20 †	1.0 †	20	07	X307	TO100	4 Quadrant;Pre-Trimmed Mon;Error ±2%Δ;SR 45V/us.
44	AD532KH#1	3	30	180m	10M†	20	1.0 †	20	07	X307	TO116	4 Quadrant Pre-Trimmed Mon;Error ±1%Δ;SR 45V/us.
45	AD532KH#1	3	30	180m	10M†	20 †	1.0 †	20	07	X307	TO100	4 Quadrant;Pre-Trimmed Mon;Error ±1%Δ;SR 45V/us.
46	AD532SD#1	3	30	180m	10M†	20	1.0 †	20	5C	X307	TO116	4 Quadrant Pre-Trimmed Mon;Error ±1%Δ;SR 45V/us.
47	AD532SH#1	3	30	180m	10M†	20 †	1.0 †	20	5C	X307	TO100	4 Quadrant;Pre-Trimmed Mon;Error ±1%Δ;SR 45V/us.
48	AD533JD#1	3	30	180m	10M†	20 †	100 †	20	07	TO116	TO116	4 Quadrant;Error ±2%Δ;Non-Linearity ±.8%
49	AD533JH#1	3	30	180m	10M†	20 †	100 †	20	07	TO100	TO100	4 Quadrant;Error ±2%Δ;Non-Linearity ±.8%
50	AD533KD#1	3	30	180m	10M†	20 †	100 †	20	07	TO116	TO116	4 Quadrant;Error ±1%Δ;Non-Linearity ±.5%
51	AD533KH#1	3	30	180m	10M†	20 †	100 †	20	07	TO100	TO100	4 Quadrant;Error ±1%Δ;Non-Linearity ±.5%
52	AD533LD#1	3	30	180m	10M†	20 †	100 †	20	07	TO116	TO116	4 Quadrant;Error ±1.5%Δ;Non-Linearity ±.5%
53	AD533LH#1	3	30	180m	10M†	20 †	100 †	20	07	TO100	TO100	4 Quadrant;Error ±1.5%Δ;Non-Linearity ±.5%
54	AD533SD#1	3	30	180m	10M†	20 †	100 †	20	5C	TO116	TO116	4 Quadrant;Error ±1%Δ;Non-Linearity ±.5%
55	AD533SH#1	3	30	180m	10M†	20 †	100 †	20	5C	TO100	TO100	4 Quadrant;Error ±1%Δ;Non-Linearity ±.5%
56	AD531JD#1	3	30	195m	80M†	20 †	100 †	20	07	X306	TO116	4 Quadrant;Mult Error ±2%;FPBW 750kHz;Error ±2%.
57	AD531KD#1	3	30	195m	80M†	20 †	100 †	20	07	X306	TO116	4 Quadrant;Mult Error ±1%;FPBW 750kHz;Error ±1%.
58	AD531LD#1	3	30	195m	80M†	20 †	100 †	20	07	X306	TO116	4 Quadrant;Mult Error ±5%;FPBW 750kHz;Error ±1.5%.
59	AD531SD#1	3	30	195m	80M†	20 †	100 †	20	5C	X306	TO116	4 Quadrant;Mult Error ±1%;FPBW 750kHz;Error ±1%.
60	AD530JH#1	3	30	200m	6.0M	10	10	10	07	TO100	TO100	Error 2%Δ;XY/10 Multiplier with OPAMP.
61	AD530KH#1	3	30	200m	6.0M	10	10	10	07	TO100	TO100	Error 1%Δ;XY/Z Multiplier with OPAMP.
62	AD530LD#1	3	30	200m	6.0M	10	10	10	07	TO116	TO116	
63	AD530LH#1	3	30	200m	6.0M	10	10	10	07	TO100	TO100	
64	AD530SD#1	3	30	200m	6.0M	10	10	10	07	TO116	TO116	Error 1%Δ;XY/Z Multiplier with OPAMP
65	AD530SH#1	3	30	200m	6.0M	10	10	10	07	TO100	TO100	Error 1%Δ;XY/Z Multiplier with OPAMP
66	CA3091D	3	30	200r	500		1.0M†	12	5C	X305	Δ001AD	Four Quadrant;Acc 2.6% of 10V;BW 4.8MHz;Tc 63nA/°C
67	CA3091H	3	30	200m	500		1.0M†	12	5C	X305	CH16x	Four Quadrant;Acc 2.6% of 10V;BW 4.8MHz;Tc 63nA/°C
68	XR2228CN	3	30	240m	1.0M†	6m	5k	20	07	X1206	TO116	4-Quadrant Analog Mult Plus High Gain Op-Amplifier
69	XR2228CP	3	30	240m	1.0M†	6m	5k	20	07	X1206	TO116	4-Quadrant Analog Mult Plus High Gain Op-Amplifier
70	XR2228M	3	30	240m	1.0M†	6m	5k	20	5C	X1206	TO116	4-Quadrant Analog Mult Plus High Gain Op-Amplifier
71	XR2228N	3	30	240m	1.0M†	6m	5k	20	48	X1206	TO116	4-Quadrant Analog Mult Plus High Gain Op-Amplifier
72	XR2228P	3	30	240m	1.0M†	6m	5k	20	48	X1206	TO116	4-Quadrant Analog Mult Plus High Gain Op-Amplifier
73	MC1594L	3	30	260m	300M†	20	850k†	20	5C	X304	DL16c	Four-Quadrant;1.0MHz Frequency Response.
74	4203J	3	30	270m	10k†	20 †	1.0 †	20	06	TO100	TO100	Acc 1.0%;Tc 400uV/°C;BW 3db 1MHz;ΔIo 5.0mA.
75	4203K	3	30	270m	10k†	20 †	1.0 †	20	06	TO100	TO100	Acc 600m%;Tc 400uV/°C;BW 3db 1MHz;ΔIo 5.0mA.
76	4203S	3	30	270m	10k†	20 †	1.0 †	20	06	TO100	TO100	Acc 600m%;Tc 400uV/°C;BW 3db 1MHz;ΔIo 5.0mA.
77	4203SQ	3	30	270m	10k†	20 †	1.0 †	20	5C	TO100	TO100	4023S plus Mil-Std-883 screening.
78	MC1494L	3	30	350m	300M†	20	850k†	20	07	X304	DL16c	Four-Quadrant;1.0MHz Frequency Response.
79	ICL8013ACTZ‡	3	30	500mΔ	36k	20	20 †	20 †	07	X317	TO100	4 Quad Mult;Divider;Sq;Sq-Router w/.50% Accuracy
80	ICL8013AMTZ‡	3	30	500mΔ	36k	20	20 †	20 †	5C	X317	TO100	4 Quad Mult;Divider;Sq;Sq-Router w/.50% Accuracy
81	ICL8013BCTZ‡	3	30	500mΔ	36k	20	20 †	20 †	5C	X317	TO100	4 Quad Mult;Divider;Sq;Sq-Router w/1.0% Accuracy
82	ICL8013BMTZ‡	3	30	500mΔ	36k	20	20 †	20 †	5C	X317	TO100	4 Quad Mult;Divider;Sq;Sq-Router w/1.0% Accuracy
83	ICL8013CCTZ‡	3	30	500mΔ	36k	20	20 †	20 †	07	X317	TO100	4 Quad Mult;Divider;Sq;Sq-Router w/2.0% Accuracy
84	ICL8013CMTZ‡	3	30	500mΔ	36k	20	20 †	20 †	5C	X317	TO100	4 Quad Mult;Divider;Sq;Sq-Router w/2.0% Accuracy
85	MC1495L	3	47	170m	20M†	30 Δ	300k†	28 †	07	X301	TO116	Acc 4.0%Δ;BW3dB3.0MHz;Com.ModeGv-50dB†
86	MC1496A	3	47	170m	20M†	30 Δ	300k†	28 †	07	X301	DL14ao	Acc 4.0%Δ;BW3db 3.0MHz;Gv 50db†
87	MC1595L	3	47	170m	35M†	30 Δ	300k†	28 †	5C	X301	TO116	Acc2.0%Δ;BW3dB3.0MHz;Com.ModeGv-60dB†
88	AD539J	4							07	Z221	DL16Z	Multiplier/Divider;Wideband 2-Channel
89	AD539K	4							07	Z221	DL16Z	Multiplier/Divider;Wideband 2-Channel
90	AD539S	4							5C	Z221	DL16Z	Multiplier/Divider;Wideband 2-Channel
91▼	AD534JD#3	4	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO116	Squarer;Error ±0.6%;Square Router;Error ±1.0%
92♦	AD534JH#3	4	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO100	Squarer;Error ±0.6%;Square Router;Error ±1.0%
93▼	AD534KD#3	4	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO116	Squarer;Error ±0.6%;Square Router;Error ±0.5%
94♦	AD534KH#3	4	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO100	Squarer;Error ±0.30%;Square Router;Error ±0.5%
95▼	AD534LD#3	4	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO116	Squarer;Error ±0.2%;Square Router;Error ±0.25%
96♦	AD534LH#3	4	15 *	90m	10M†	12 ♀	100m†	11 *	07	X316	TO100	Squarer;Error ±.20%;Square Router;Error ±.25%
97▼	AD534S/883B#3(M)	4	15 *	90m	10M†	12 ♀	100m†					

10. SPECIAL FUNCTIONS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	TYPE No.	U S E	PWR SUP @25°C		MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C		T E M P E	C O M M O D	D R A W I N G S	O U T - L I N E Δ=MO	GENERAL DESCRIPTION
			2 | TOT. VOLT. (ΔV)	3 | MAX. IDLE P (W)	IMPED-ANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)					
1	AD533LD#3	4	30	180m	10M†	20 †	100 †	20	07		TO116	Squarer, Square Rooter; Error ±2%	
2	AD533LH#3	4	30	180m	10M†	20 †	100 †	20	07		TO100	Squarer, Square Rooter; Error ±2%	
3	AD533SD#3	4	30	180m	10M†	20 †	100 †	20	5C		TO116	Squarer, Square Rooter; Error ±4%	
4	AD533SH#3	4	30	180m	10M†	20 †	100 †	20	5C		TO100	Squarer, Square Rooter; Error ±4%	
5	AD530JH#2	4	30	200m	6.0M	10	10	10	07		TO100	Squarer, Square Rooter.	
6	AD530KH#2	4	30	200m	6.0M	10	10	10	07		TO100	Squarer, Square Rooter.	
7	AD530LD#2	4	30	200m	6.0M	10	10	10	07		TO116	Squarer, Square Rooter.	
8	AD530LH#2	4	30	200m	6.0M	10	10	10	07		TO100	Squarer, Square Rooter.	
9	AD530SD#2	4	30	200m	6.0M	10	10	10	07		TO116	Squarer, Square Rooter.	
10	AD530SH#2	4	30	200m	6.0M	10	10	10	07		TO100	Squarer, Square Rooter.	
11	uPC1253H2	4	30	330mΔ	33k					X403	MS40	Squaring Amplifier	
12	uPC1207H	4	70	470mΔ	47k					X402	MS40	Squaring Amplifier	
13▼	AD7115BQ	5	7.0	450mΩ	11k§	25 ♦			28	X523	DL18o	CMOS Multiplying D/A Converter w/ext digital logic	
14▼	AD7115TD(M)	5	7.0	450mΩ	11k§	25 ♦			5C	X523	DL18m	CMOS Multiplying D/A Converter w/ext digital logic	
15▼	AD7115KN	5	7.0	670mΩ	11k§	25 ♦			07	X523	DL18n	CMOS Multiplying D/A Converter w/ext digital logic	
16	XR2207MZ	5	12	78m	5.0k†		10 †	4.0	5C	X507	DL14bg	Volt Contr Osc.; 0.1Hz To 1MHz; 1.0k to 1 Sweep	
17	XR2207NZ	5	12	78m	5.0k†		10 †	4.0	07	X520	DL14g	Volt Contr Osc.; 0.1Hz To 1MHz; 1.0k to 1 Sweep	
18	XR2207PZ	5	12	78m	5.0k†		10 †	4.0	07	X520	DL14bj	Volt Contr Osc.; 0.1Hz To 1MHz; 1.0k to 1 Sweep	
19	XR2207CNZ	5	12	90m	5.0k†		10 †	4.0	48	X520	DL14bj	Volt Contr Osc.; 0.1Hz To 1MHz; 1.0k to 1 Sweep	
20	XR2207CPZ	5	12	90m	5.0k†		10 †	4.0	48	X520	DL14bj	Volt Contr Osc.; 0.1Hz To 1MHz; 1.0k to 1 Sweep	
21	SE566F	5	12	150m	1.0M†	3.0 Δ	50 †	1.9	5C	X502a	DL14bn	Voltage Controlled Oscillator	
22	XR205	5	12	750m			50 †	2.0 §	07	X508	DL16ao	Wave form Generator; freq 4.0MHz; tr,tf 20ns.	
23	XR2206CN	5	12	750mΩ	50k	12	600 †	6.0 †	07	X506	DL16ao	Freq .01Hz-1.0MHz; Dist .5% typ; tr 250ns, tf 50ns.	
24	XR2206CP	5	12	750mΩ	50k	12	600 †	6.0 †	07	X506	DL16ao	Freq .01Hz-1.0MHz; Dist .5% typ; tr 250ns, tf 50ns.	
25	XR2206M	5	12	750mΩ	50k	12	600 †	6.0 †	07	X506	DL16ao	Freq .01Hz-1.0MHz; Dist .5% typ; tr 250ns, tf 50ns.	
26	XR2206N	5	12	750mΩ	50k	12	600 †	6.0 †	07	X506	DL16ao	Freq .01Hz-1.0MHz; Dist .5% typ; tr 250ns, tf 50ns.	
27	XR2206P	5	12	750mΩ	50k	12	600 †	6.0 †	07	X506	DL16ao	Freq .01Hz-1.0MHz; Dist .5% typ; tr 250ns, tf 50ns.	
28	uPC617C	5	15	225m			200m*	10	27	X519	DL8au	Sawtooth, Square Wave Gen W/Externally Adj RC	
29	uPC1555C	5	15	225m			200m*	10	27	X519	DL8au	Sawtooth, Square Wave Gen W/Externally Adj RC	
30#	SAJ205	5	22	450mΔ	2.0M	5.0		16	05	X522	DL14ab	Staircase Volt Gen; 8 Divide Stages; 8 D/A Converter	
31#	NE566H	5	26	1.0M†	3.0	5.0	50	1.9	07	X502	TO5	Voltage Controlled Osc Function Generator	
32#	SE566H	5	26	1.0M†	3.0	5.0	50	1.9	5C	X502	TO5	Voltage Controlled Osc Function Generator	
33	M530J	5	30	135m	10M	20	8.0	20	28	X503	TO100	Multiplier/Div/Squarer/Square Rooter; BW 1.0MHz.	
34	M530K	5	30	135m	10M	20	8.0	20	28	X503	TO100	Multiplier/Div/Squarer/Square Rooter; BW 1.0MHz.	
35	M530L	5	30	135m	10M	20	8.0	20	28	X503	TO100	Multiplier/Div/Squarer/Square Rooter; BW 1.0MHz.	
36	M530S	5	30	135m	10M	20	8.0	20	5C	X503	TO100	Multiplier/Div/Squarer/Square Rooter; BW 1.0MHz.	
37	ICL8038AMDD	5	30	450m		30 Δ	200 †	28	5C	X505	DL14aq	WAVE FORM GEN; FREQ DRIFT STABILITY 50ppm/°C max.	
38	ICL8038AMJD	5	30	450m		30 Δ	200 †	6.0	5C	X505	DL14an	Wave Form Gen; Freq Drift Stability 50ppm/°CΔ	
39	ICL8038BMDD	5	30	450m		30 Δ	200 †	28	5C	X505	DL14aq	Waveform Gen.; Freq Drift Stability 100ppm/°C max.	
40	ICL8038BMJD	5	30	450m		30 Δ	200 †	6.0	5C	X505	DL14an	Wave Form Gen; Freq Drift Stability 100ppm/°CΔ	
41	ICL8038ACPD	5	30	600m		30 Δ	200 †	6.0	07	X505	DL14aq	Wave Form Gen; Freq Drift Stability 50ppm/°CΔ	
42	ICL8038BCPD	5	30	600m		30 Δ	200 †	6.0	07	X505	DL14aq	Wave Form Gen; Freq Drift Stability 100ppm/°CΔ	
43	ICL8038CCPD	5	30	600m		30 Δ	200 †	6.0	07	X505	DL14aq	Wave Form Gen; Freq Drift Stability 50ppm/°C†	
44	XR8038ACP(A)	5	30	625mΩ			200 †	29	07	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq 1.0MHz typ.	
45	XR8038AP(A)	5	30	625mΩ			200 †	29	07	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq 1.0MHz typ.	
46	XR8038CP	5	30	625mΩ			200 †	29	07	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq .001Hz-1.0MHz	
47	XR8038P	5	30	625mΩ			200 †	29	07	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq .001Hz-1.0MHz	
48	XR8038ACN(A)	5	30	750mΩ			200 †	29	07	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq 1.0MHz typ.	
49	XR8038AM(A)	5	30	750mΩ			200 †	29	5C	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq 1.0MHz typ.	
50	XR8038AN(A)	5	30	750mΩ			200 †	29	07	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq 1.0MHz typ.	
51	XR8038CN	5	30	750mΩ			200 †	29	07	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq .001Hz-1.0MHz	
52	XR8038M	5	30	750mΩ			200 †	29	5C	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq .001Hz-1.0MHz	
53	XR8038N	5	30	750mΩ			200 †	29	07	X501	DL14bp	Square, Sawtooth, Sine Wave Gen; Freq .001Hz-1.0MHz	
54	LM3909N	7	1.5 §	500m			2.0 §	27	X706		DL8ak	LED Flasher; Freq .65Hz to 1.0kHz; Pulse Width 6.0ms	
55#	TBA720	7	12 §	138m		2.4	10 †	06	X701		DL16aj	Line Oscillator Ckt.	
56#	TBA720Q	7	12 §	138m		2.4	10 †	06	X701		QL16a	Line Oscillator Ckt.	
57#	TBA720AQ	7	12 §	216m		2.4	8.0 †	06	X702		QL16a	Line Oscillator Ckt.	
58	XR2209CP	7	12	300mΩ			4.7kΩ	11	07	X705	DL8r	Precision Osc; Sq, Triangle Out; 0.1Hz-1.0MHz	
59	XR2209CN	7	12	385mΩ			4.7kΩ	11	07	X705	DL8r	Precision Osc; Sq, Triangle Out; 0.1Hz-1.0MHz	
60	XR2209M	7	12	385mΩ			4.7kΩ	11	5C	X705	DL8r	Precision Osc; Sq, Triangle Out; 0.1Hz-1.0MHz	
61	RV555NB	7	15	150m			22	28	28		DL8a		
62	RV555DC	7	15	300m			22	5C	5C		TO116		
63	S100	7	28 §	28m†			2.5k†	5.6 †	08		CN84	Tc .05%/°CΔ; Dist 5.0%Δ; Freq 400-50kHz; RL35kohms	
64	S200	7	28 §	28m†			2.5k†	5.6 †	08		CN86	Tc .05%/°CΔ; Dist 5.0%Δ; Freq 25-50 kHz; RL35kohms	
65	4012	7	30	1.2 §			60			X708		Audio Freq Osc(40Hz-20KHz); Output Level 0-27DBM	
66▼#	SAB1018A	8	5.0 §	300m*		7.0 Δ	2.0 Ø	07	X813		DL8ai	950MHz Divider by 256 Scaler; Comp OC Outputs	
67▼#	SAA1059	8	14	760mΔ	1.0k	14 §Δ	1.0 Ø	28	X812		DL16bw	Prgmbi-Ratio Divide-by-32/33 prescaler; OC Outputs	
68▼	AD534JD#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	07	X316	TO116	2 Quadrant Divider; 1MHz BW; Error ±0.75% Typ	
69▼	AD534JH#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	07	X316	TO100	2 Quadrant Divider; 1.0MHz BW 3dB; Error ±.75% Typ	
70▼	AD534KD#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	07	X316	TO116	2 Quadrant Divider; 1MHz BW; Error ±0.35% Typ	
71▼	AD534KH#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	07	X316	TO100	2 Quadrant Divider; 1.0MHz BW 3dB; Error ±.35% Typ	
72▼	AD534LD#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	07	X316	TO116	2 Quadrant Divider; 1MHz BW; Error ±0.20% Typ	
73▼	AD534LH#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	07	X316	TO100	2 Quadrant Divider; 1.0MHz BW 3dB; Error ±.20% Typ	
74▼	AD534S/883B#2(M)	8	15 *	90m	10M†	12 ♦	100m†	11 *	5C	X3167	TO116	2 Quadrant Divider; 1MHz BW; Error ±0.75 Typ	
75▼	AD534SD#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	5C	X316	TO116	2 Quadrant Divider; 1MHz BW; Error ±0.75% Typ	
76▼	AD534SH#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	5C	X316	TO100	2 Quadrant Divider; 1.0MHz BW 3dB; Error ±.75% Typ	
77▼	AD534T/883B#2(M)	8	15 *	90m	10M†	12 ♦	100m†	11 *	5C	X316	TO116	2 Quadrant Divider; 1MHz BW; Error ±0.35% Typ	
78▼	AD534TD#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	5C	X316	TO116	2 Quadrant Divider; 1MHz BW; Error ±0.35% Typ	
79▼	AD534TH#2	8	15 *	90m	10M†	12 ♦	100m†	11 *	5C	X316	TO100	2 Quadrant Divider; 1.0MHz BW 3dB; Error ±.35% Typ	
80	AD535JD	8	15 *	180m	10M†	15 *Δ	.10 †	11 *	07	X809	TO116	DIVIDER, Two QUADRANT; Pretrimmed to ±1.0%Δ Error	
81	AD535JH	8	15 *	180m	10M†	15 *Δ	.10 †	11 *	07	X809	TO100	DIVIDER, Two QUADRANT; Pretrimmed to ±1.0%Δ Error	
82	AD535KD	8	15 *	180m	10M†	15 *Δ	.10 †	11 *	07	X809	TO116	DIVIDER, Two QUADRANT; Pretrimmed to ±0.5%Δ Error	
83	AD535KH	8	15 *	180m	10M†	15 *Δ	.10 †	11 *	07	X809	TO100	DIVIDER, Two QUADRANT; Pretrimmed to ±0.5%Δ Error	
84#	M738	8	15	200m*		5	4.9	48			DL14cp	7-Stage Divider; 4 Divider Blocks	
85#	M740	8	15	200m*		5	4.9	48			DL14cp	7-Stage Divider; 4 Divider Blocks	
86#	M741	8	15	200m*		5	4.9	48			DL14cp	7-Stage Divider; 5 Divider Blocks	
87#	M747	8	15	200m*		5	4.9	48			DL14cp	7-Stage Divider; 5 Divider Blocks	
88	AD7525BD	8	17		2.0k	20	40k	28		X811	DL18k	Precision Voltage-Divider/Potentiometer	
89	AD7525CD	8	17		2.0k	20	40k	28		X811	DL18k	Precision Voltage-Divider/Potentiometer	
90	AD7525KN	8	17		2.0k	20	40k	07		X811	DL18l	Precision Voltage-Divider/Potentiometer	
91	AD7525LN	8	17		2.0k	20	40k	07		X811	DL18l	Precision Voltage-Divider/Potentiometer	
92	AD7525TD	8	17		2.0k	20	40k	5C		X811	DL18k	Precision Voltage-Divider/Potentiometer	
93	AD7525UD	8	17		2.0k	20	40k	5C		X811	DL18k	Precision Voltage-Divider/Potentiometer	
94	AD530JD#3	8	30	180m	36k†	20	2.0kØ	20	07		TO116		
95	AD530KD#3	8	30	180m	36k†	20	2.0kØ	20	07		TO116		
96	AD532JD#2	8	30	180m	10M†	20	1.0 †	20	07	X307	TO116	2 Quadrant Pre-Trimmed Mon; Error ±2%; FPBW 750kHz.	
97	AD532JH#2	8	30	180m	10M†	20	1.0 †	20	07	X307	TO100	2 Quadrant Pre-Trimmed Mon; Error ±2%; FPBW 750kHz.	
98	AD532KD#2	8	30	180m	10M†	20	1.0 †	20	07	X307	TO116	2 Quadrant Pre-Trimmed Mon; Error ±1%; FPBW 750kHz.	
99	AD532KH#2	8	30	180m	10M†	20	1.0 †	20	07	X307	TO100	2 Quadrant Pre-Trimmed Mon; Error ±1%; FPBW 750kHz.	
100	AD532SD#2	8	30	180m	10M†	20	1.0 †	20	5C	X307	TO116	2 Quadrant Pre-Trimmed Mon; Error ±1%; FPBW 750kHz.	
101	AD532SH#2	8	30	180m	10M†	20	1.0 †	20	5C	X307	TO100	2 Quadrant Pre-Trimmed Mon; Error	

10. SPECIAL FUNCTIONS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	TYPE No.	U S E	PWR SUP @25°C		MIN INPUT		OUTPUT		T C E O M D P E	DRAWINGS	GENERAL DESCRIPTION	
			RATED	SPECS	CHAR.	VOLT	CHAR.	MIN VOLT				
			TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	IMPED-ANCE (Ω)	RANGE (ΔV)	MAX. IMP. RANGE (ΔV)	MIN VOLT RANGE (ΔV)				
1	AD533SH#2	8	30	180m	10M†	20 †	100 †	20	5C	TO100	2 Quadrant; Error ±5%; FPBW 750kHz; SR 45V/us.	
2	AD531JD#2	8	30	195m	80M†	20 †	100 †	20	07	X306	TO116	2 Quadrant; Non-Linear ±8%; CMR 40db; SR 45V/us.
3	AD531KD#2	8	30	195m	80M†	20 †	100 †	20	07	X306	TO116	2 Quadrant; Non-Linear ±5%; CMR 40db; SR 45V/us.
4	AD531LD#2	8	30	195m	80M†	20 †	100 †	20	07	X306	TO116	2 Quadrant; Non-Linear ±3%; CMR 60db; SR 45V/us.
5	AD531SD#2	8	30	195m	80M†	20 †	100 †	20	07	X306	TO116	2 Quadrant; Non-Linear ±5%; CMR 40db; SR 45V/us.
6	AD530JH#3	8	30	200m	6.0M	10	10	10	07		TO100	
7	AD530KH#3	8	30	200m	6.0M	10	10	10	07		TO100	
8	AD530LD#3	8	30	200m	6.0M	10	10	10	07		TO116	
9	AD530LH#3	8	30	200m	6.0M	10	10	10	07		TO100	
10	AD530SD#3	8	30	200m	6.0M	10	10	10	07		TO116	
11	AD530SH#3	8	30	200m	6.0M	10	10	10	07		TO100	
12	AD636JD	9	8.0 §		6.7k†§	5.6 †	10k†	300m	07	X916	TO116	Low Level True rms-to-dc Converter; 1.0% max error
13	AD636JH	9	8.0 §		6.7k†§	5.6 †	10k†	300m	07	X916	TO100	Low Level True rms-to-dc Converter; 1.0% max error
14	AD636KD	9	8.0 §		6.7k†§	5.6 †	10k†	300m	07	X916	TO116	Low Level True rms-to-dc Converter; 0.5% max error
15	AD636KH	9	8.0 §		6.7k†§	5.6 †	10k†	300m	07	X916	TO100	Low Level True rms-to-dc Converter; 0.5% max error
16	LM2907J	9	12	72m		10 §	10M†	10	48	X901	DL14cd	Freq 1-10kHz; Lin 1.0%; Isink 50mA; Gain 106dB
17	LM2907N8	9	12	72m		10 §	10M†	10	48	X901	DL8ah	Freq 1-10kHz; Lin 1%; Isink 50mA; Tach Vi Rng ±28V
18	LM2907N	9	12	72m		10 §	10M†	10	48	X901	DL14ce	Freq 1-10kHz; Lin 1%; Isink 50mA; Tach Vi Rng 28V§
19	LM2917J	9	12	72m		10 §	10M†	10	48	X901	DL14cd	Freq 1-10kHz; Lin 1.0%; Isink 50mA; Gain 106dB
20	LM2917N8	9	12	72m		10 §	10M†	10	48	X901	DL8ah	Freq 1-10kHz; Lin 1%; Isink 50mA; Tach Vi Rng ±28V
21	LM2917N	9	12	72m		10 §	10M†	10	48	X901	DL14ce	Freq 1-10kHz; Lin 1%; Isink 50mA; Tach Vi Rng 28V§
22	CS2907D8	9	22	45m†		10m*		6.0 †§	48	X1204		F/V Conv; Reg Ext Power Supply 1-10kHz Non-Linear
23	410Z	9	28	30m	2.0k	5.0	10k†	5.0	58			Freq 0.0-100kHz; Tc 500uV/°C; Acc 1.0%Δ.
24	430Z	9	28	30m	2.0k	5.0	10k†	5.0	58			Freq 0.0-100kHz; Tc 500uV/°C; Acc 1.0%Δ.
25	440Z	9	28	30m	2.0k	5.0	10k†	5.0	58			Freq 0.0-100kHz; Tc 500uV/°C; Acc 1.0%Δ.
26	CS2917-1D14	9	28	36m†		10m*		6.0 †§	48	X1205		F/V Conv; Single P.S.; Open Collector Transistor
27	CS2917D8	9	28	36m†		10m*		6.0 †§	48	X1205		F/V Conv; Single P.S.; 1-10kHz Non-Linearity
28	410KF	9	28	700m	40k†	2.0	10k†	5.0 †§	58		CN85	Freq 0.0-100Hz; Tc 500uV/°C; Acc 1.0%Δ.
29	420KF	9	28	700m	40k†	2.0	10k†	5.0 †§	58		CN85	Freq 0.0-1.0kHz; Tc 500uV/°C; Acc 1.0%Δ.
30	430KF	9	28	700m	40k†	2.0	10k†	5.0 †§	58		CN85	Freq 0.0-10kHz; Tc 500uV/°C; Acc 1.0%Δ.
31	440KF	9	28	700m	40k†	2.0	10k†	5.0 †§	58		CN85	Freq 0.0-100kHz; Tc 500uV/°C; Acc 1.0%Δ.
32	450KF	9	28	700m	1.0k	20m	10k†	5.0	05			Freq 0.0-100Hz; Tc 500uV/°C; Acc 1.0%Δ.
33	460KF	9	28	700m	1.0k	20m	10k†	5.0	05			Freq 0.0-1.0kHz; Tc 500uV/°C; Acc 1.0%Δ.
34	470KF	9	28	700m	1.0k	20m	10k†	5.0	05			Freq 0.0-10kHz; Tc 500uV/°C; Acc 1.0%Δ.
35	480KF	9	28	700m	1.0k	20m	10k†	5.0	05			Freq 0.0-100kHz; Tc 500uV/°C; Acc 1.0%Δ.
36	AD536AJD	9	30	60m	16k†	40	0.5	10	07	X914	DL14cb	RMS to DC Converter; 0.5% max Error; Laser Trimmed.
37	AD536AJH	9	30	60m	16k†	40	0.5	10	07	X917	TO100	RMS to DC Converter; 0.5% max Error; Laser Trimmed.
38	AD536AKD	9	30	60m	16k†	40	0.5	10	07	X914	DL14cb	RMS to DC Converter; 0.2% max Error; Laser Trimmed.
39	AD536AKH	9	30	60m	16k†	40	0.5	10	07	X917	TO100	RMS to DC Converter; 0.2% max Error; Laser Trimmed.
40	AD536ASD#mil	9	30	60m	16k†	40	0.5	10	5C	X914	DL14cb	RMS to DC Converter; 0.5% max Error; Laser Trimmed.
41	AD536ASH#mil	9	30	60m	16k†	40	0.5	10	07	X917	TO100	RMS to DC Converter; 0.5% max Error; Laser Trimmed.
42	9004	9	30	220m	5.0k	20	500	10	57			F-V Conv; Freq Rng 0-10kHz; Lin ±0.25% FS max
43	VFC32BM#1	9	30	135 †	1.0M	30 Δ	1.0	10 §	28	X911	TO100	FS Freq 500kHz; FS Gain Error 5% FSRT; F.T. 400nsΔ
44	VFC32KP#1	9	30	135 †	1.0M	30 Δ	1.0	10 §	06	X912	DL14bt	FS Freq 500kHz; FS Gain Error 5% FSRT; F.T. 400nsΔ
45	VFC32SM#1	9	30	135 †	1.0M	30 Δ	1.0	10 §	5C	X911	TO100	FS Freq 500kHz; FS Gain Error 5% FSRT; F.T. 400nsΔ
46	AD637J	9	36		100M	16		500m	07	X919	DL14db	IC True RMS-To-DC Converter
47	AD637K	9	36		100M	16		500m	07	X919	DL14db	IC True RMS-To-DC Converter
48	SN54LS624J	10	5.0			5.0			5C	X1008		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
49	SN54LS624W	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
50	SN54LS625J	10	5.0			5.0			5C	X1009		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
51	SN54LS625W	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
52	SN54LS626J	10	5.0			5.0			5C	X1010		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
53	SN54LS626W	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
54	SN54LS627J	10	5.0			5.0			5C	X1011		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
55	SN54LS627W	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
56	SN54LS628J	10	5.0			5.0			5C	X1012		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
57	SN54LS628W	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
58	SN54LS629J	10	5.0			5.0			5C	X1013		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
59	SN54LS629W	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 12mA
60	SN74LS624J	10	5.0			5.0			5C	X1008		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
61	SN74LS624N	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
62	SN74LS625J	10	5.0			5.0			5C	X1009		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
63	SN74LS625N	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
64	SN74LS626J	10	5.0			5.0			5C	X1010		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
65	SN74LS626N	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
66	SN74LS627J	10	5.0			5.0			5C	X1011		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
67	SN74LS627N	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
68	SN74LS628J	10	5.0			5.0			5C	X1012		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
69	SN74LS628N	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
70	SN74LS629J	10	5.0			5.0			5C	X1013		Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
71	SN74LS629N	10	5.0			5.0			5C			Volt-Cont Osc; Max Fo 20MHz; IoH -1.2mA; IoL 24mA
72	SN74LS724J	10	5.2	45mΔ		5.2 Δ			07	X1014	DL8bt	Volt-Cont Osc; Max Fo 16MHz; IoH -400uA; IoL 4.0mA
73	SN74LS724N	10	5.2	45mΔ		5.2 Δ			07	X1014	DL8bu	Volt-Cont Osc; Max Fo 16MHz; IoH -400uA; IoL 4.0mA
74	NE566V	10	12	130m	1.0M†		50 †	5.0	07	X502	DL8k	Voltage Controlled Oscillator.
75	NE566F	10	12	150m	1.0M†	5.0	50 †	1.9	07	X502	DL14bn	Voltage Controlled Oscillator.
76	NE566N	10	12	150m	1.0M†	5.0	50 †	1.9	07	X502a	DL8ao	Voltage Controlled Oscillator.
77	NE566T	10	12	150m	1.0M†	5.0	50 †	1.9	07	X502	CN1g	Voltage Controlled Oscillator.
78	SE566N	10	12	150m	1.0M†	3.0 Δ	50 †	1.9	5C	X502	DL8ao	Voltage Controlled Oscillator.
79	SE566T	10	12	150m	1.0M†	3.0 Δ	50 †	1.9	5C	X502	TO99	Voltage Controlled Oscillator.
80	LM565CH	10	12	300m‡	5.0k†	1.0 †	5.0k†	200m‡	07	X1015	CN10b	Phase Locked Loop; 20ppm/°c Freq Stab; 0.2% Lin Dem
81	LM565CN	10	12	300m‡	5.0k†	1.0 †	5.0k†	200m‡	07	X1015	DL14ce	Phase Locked Loop; 20ppm/°c Freq Stab; 0.2% Lin Dem
82	LM565H	10	12	300m‡	7.0k	1.0 †	5.0k†	250m‡	5C	X1015	CN10b	Phase Locked Loop; 20ppm/°c Freq Stab; 0.2% Lin Dem
83	XR2207CP	10	12	625m	5.0k†		10 †		07	X507	DL14bp	Voltage Controlled Oscillator; Freq 0.1Hz-1.0MHz.
84	XR2207P	10	12	625m	5.0k†		10 †		07	X507	DL14bp	Voltage Controlled Oscillator; Stability 50ppm/°CΔ
85	XR2207CN	10	12	750m	5.0k†		10 †		07	X507	DL14bp	Voltage Controlled Oscillator; Freq 0.1Hz-1.0MHz.
86	XR2207M	10	12	750m	5.0k†		10 †		5C	X507	DL14bp	Voltage Controlled Oscillator; Freq 0.1Hz-1.0MHz.
87	XR2207N	10	12	750m	5.0k†		10 †		07	X507	DL14bp	Voltage Controlled Oscillator; Stability 50ppm/°CΔ
88	LM231AN	11	5.0	500m‡					28		DL8ah	Precision Volt/Freq Convert; M ax Bias I -300nA
89	LM231N	11	5.0	500m‡					28		DL8ah	Precision Volt/Freq Convert; M ax Bias I -300nA
90	LM331AN	11	5.0	500m‡					07		DL8ah	Precision Volt/Freq Convert; M ax Bias I -300nA
91	LM331N	11	5.0	500m‡					07		DL8ah	Precision Volt/Freq Convert; M ax Bias I -300nA
92	LM231AH	11	5.0	570m‡					28		TO5	Precision Volt/Freq Convert; M ax Bias I -300nA
93	LM231H	11	5.0	570m‡					28		TO5	Precision Volt/Freq Convert; M ax Bias I -300nA
94	LM331AH	11	5.0	570m‡					07		TO5	Precision Volt/Freq Convert; M ax Bias I -300nA
95	LM331H	11	5.0	570m‡					07		TO5	Precision Volt/Freq Convert; M ax Bias I -300nA
96	LM131AH	11	5.0	670m‡					5C		TO5	Precision Volt/Freq Convert; M ax Bias I -300nA
97	LM131H	11	5.0	670m‡					5C		TO5	Precision Volt/Freq Convert; M ax Bias I -300nA
98	9401CJ	11	10	27m†	10M	1.0	2.0k‡	4.0 †§	07	X1102	DL8b	A Complete V/F or F/V System
99	9401CN	11	10	27m†	10M	1.0	2.0k‡	4.0 †§	48	X1102	DL14cb	A Complete V/F or F/V System
100	9402CJ	11	10	27m†	10M	1.0	2.0k‡	4.0 †§	07	X1102	DL8b	A Complete V/F or F/V System
101	9402CN	11	10	27m†	10M	1.0	2.0k‡	4.0 †§	48	X1102	DL14cb	A Complete V/F or F/V System
102	9400CN	11	10	40m								

10. SPECIAL FUNCTIONS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	TYPE No.	USE	PWR SUP @25°C RATED SPECS		MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C		T C E O M D P E	DRAWINGS	GENERAL DESCRIPTION		
			2 | TOT. VOLT. (ΔV)	3 | MAX. IDLE P (W)	IMPED-ANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)				CKT.	OUT-LINE Δ=MO
1	RC4152T	11	15	90m		12			07	TO99	V _I 10mV to 10V; Freq Out 10Hz to 10kHz		
2	RM4152DE	11	15	90m		12			5C	DL8aa	V _I 10mV to 10V; Freq Out 10Hz to 10kHz		
3	RM4152T	11	15	90m		12			5C	TO99	V _I 10mV to 10V; Freq Out 10Hz to 10kHz		
4	RV4152DE	11	15	90m		12			48	DL8aa	V _I 10mV to 10V; Freq Out 10Hz to 10kHz		
5	RV4152NB	11	15	90m		12			48	DL8ah	V _I 10mV to 10V; Freq Out 10Hz to 10kHz		
6	RC4151DE	11	15	112m		10m*			07	DL8aa	TC ±100ppm/°C Typ; Linearity ±0.05% Typ		
7	RC4151NB	11	15	112m		10m*			07	DL8ab	T.C. ±100ppm/°C Typ; Linearity ±0.05% Typ		
8	RC4151T	11	15	112m		10m*			07	TO99	T.C. ±100ppm/°C Typ; Linearity ±0.05% Typ		
9	RM4151DE	11	15	112m		10m*			5C	DL8aa	TC ±100ppm/°C Typ; Linearity ±0.05% Typ		
10	RM4151T	11	15	112m		10m*			5C	TO99	T.C. ±100ppm/°C Typ; Linearity ±0.05% Typ		
11	RV4151DE	11	15	112m		10m*			5C	DL8aa	TC ±100ppm/°C Typ; Linearity ±0.05% Typ		
12	RV4151NB	11	15	112m		10m*			48	DL8ab	T.C. ±100ppm/°C Typ; Linearity ±0.05% Typ		
13	VFQ2C	11	18				2.0k		24	X1136	DL14bk		
14	VFQ3C	11	18				2.0k		24	X1136	DL14bk		
15	310VF	11	20	400m	15k	0.0	5.0k		05	05	CN89	Freq V/F or F/V Conv 10-100kHzat .02%Δ Lin	
16	320VF	11	20	400m	15k	0.0	5.0k		05	05	CN89	Output freq 0 to 100kpps; Acc. ± 0%	
17	330VF	11	20	400m	15k	0.0	5.0k		05	05	CN89	Output freq 0 to 1.0 KCPS; Acc. ± 1.0%	
18	340VF	11	20	400m	15k	0.0	5.0k		05	05	CN89	Output freq 0 to 10kpps; Acc. ± 1.0%	
19	VFC320BG	11	30		50k		100m	10	28	X1145	DL14cj	V/F/F-V Converter; 6 Decode Dynamic Range	
20	VFC320BM	11	30		50k		100m	10	28	X1147	TO100	V/F/F-V Converter; 6 Decode Dynamic Range	
21	VFC320CG	11	30		50k		100m	10	28	X1145	DL14cj	V/F/F-V Converter; 6 Decode Dynamic Range	
22	VFC320CM	11	30		50k		100m	10	28	X1147	TO100	V/F/F-V Converter; 6 Decode Dynamic Range	
23	VFC320SM	11	30		50k		100m	10	5C	X1147	TO100	V/F/F-V Converter; 6 Decode Dynamic Range	
24	ADVFC32SH#mil	11	30	120m	170k	10			30	5C	X1143	TO100	V/F or F/V Conversion; High Linearity
25	RC4153DB	11	30	210m	1.5m*		230 †		10	5C	X122	DL14au	High Speed V/F Conv; 0.1% max Nonlin Error; Plas DIP
26	RM4153DC	11	30	210m	1.5m*		230 †		10	5C	X122	DL14av	High Speed V/F Conv; 0.1% max Nonlin Error; Cer DIP
27	RV4153DB	11	30	210m	1.5m*		230 †		10	48	X122	DL14au	High Speed V/F Conv; 0.1% max Nonlin Error; Plas DIP
28	RV4153DC	11	30	210m	1.5m*		230 †		10	48	X122	DL14av	High Speed V/F Conv; 0.1% max Nonlin Error; Cer DIP
29	VFC32BM#2	11	30	135 †	170M	1.6 †			10	28	X911	TO100	FS Freq 500kHzΔ; FS Gain Error 5% FSR†; Vos 4.0mVΔ
30	VFC32KP#2	11	30	135 †	170M	1.6 †			10	06	X912	DL14bt	FS Freq 500kHzΔ; FS Gain Error 5% FSR†; Vos 4.0mVΔ
31	VFC32SM#2	11	30	135 †	170M	1.6 †			10	5C	X911	TO100	FS Freq 500kHzΔ; FS Gain Error 5% FSR†; Vos 4.0mVΔ
32	AD537JH	11	31	88m	250M	28	900		07	07		TO116	Volt to Freq Converter; Out Sink Current 200mA
33	AD537JD	11	31	88m	250M	28	900		07	07		TO100	Volt to Freq Converter; Out Sink Current 10mA
34	AD537KD	11	31	88m	250M	28	900		07	07		TO100	Volt to Freq Converter; Out Sink Current 20mA
35	AD537KH	11	31	88m	250M	28	900		07	07		TO100	Volt to Freq Converter; Out Sink Current 20mA
36	AD537SD	11	31	88m	250M	28	900		5C	5C		TO116	Volt to Freq Converter; Out Sink Current 10mA
37	AD537SH	11	31	88m	250M	28	900		5C	5C		TO100	Volt to Freq Converter; Out Sink Current 10mA
38	TDB0131CM	11	40	15m		10 **			07	X1115	TO99	Volt/Freq Converter; Po 570mW	
39	TDB0131DP	11	40	15m		10 **			07	X1116	DL8v	Volt/Freq Converter; Po 50mW	
40	VFC32UM(M)	11	44		50k		1.0	10	5C	X1147	TO100	V/F Converter; 6 Decode Dynamic Range	
41	VFC32VM(M)	11	44		50k		1.0	10	5C	X1147	TO100	V/F Converter; 6 Decode Dynamic Range	
42	VFC32WM(M)	11	44		50k		1.0	10	5C	X1147	TO100	V/F Converter; 6 Decode Dynamic Range	
43	VFC62BG	12	20	134m	300k	.15m*	0.1	10	28	X1208	DL14cj	Monolithic Volt-Freq/Freq-Volt Conv.	
44	VFC62BM	12	20	134m	300k	.15m*	0.1	10	28	X1207	TO100	Monolithic Volt-Freq/Freq-Volt Conv.	
45	VFC62CG	12	20	134m	300k	.15m*	0.1	10	28	X1208	DL14cj	Monolithic Volt-Freq/Freq-Volt Conv.	
46	VFC62CM	12	20	134m	300k	.15m*	0.1	10	28	X1207	TO100	Monolithic Volt-Freq/Freq-Volt Conv.	
47	VFC62SM	12	20	134m	300k	.15m*	0.1	10	5C	X1207	TO100	Monolithic Volt-Freq/Freq-Volt Conv.	
48	3802	12	30		5.0k†				07	07		TO100	Prog VFC/FVC Conv; 2.0MHz; TC 75PPM/°C of FS max
49	3803	12	30		5.0k†				07	07		TO100	Prog VFC/FVC Conv; 2.0MHz; TC 50PPM/°C of FS max
50	3804	12	30		5.0k†				07	07		TO100	Prog VFC/FVC Conv; 2.0MHz; TC 15PPM/°C of FS max
51	3805	12	30		5.0k†				07	07		TO100	Prog VFC/FVC Conv; 2.0MHz; TC 100 PPM/°C of FS max
52	3806	12	30		5.0k†				07	07		TO100	Prog VFC/FVC Conv; 5.0MHz; TC 50PPM/°C of FS max
53	3807	12	30		5.0k†				07	07		TO100	Prog VFC/FVC Conv; 5.0MHz; TC 25PPM/°C of FS max
54	3810	12	30		5.0k†				07	07		TO100	Prog VFC/FVC Conv; 10MHz; TC 100PPM/°C of FS max
55	3811	12	30		5.0k†				07	07		TO100	Prog VFC/FVC Conv; 10MHz; TC 50PPM/°C of FS max
56	3812	12	30		5.0k†				07	07		TO100	Prog VFC/FVC Conv; 10MHz; TC 25 PPM/°C of FS max
57	ADVFC32BH	12	40		250k	10		30	28	X912	TO100	V/F/F-V Converter	
58	ADVFC32KN	12	40		250k	10		30	07	X912	DL14z	V/F/F-V Converter	
59	ADVFC32SH	12	40		250k	10		30	5C	X912	TO100	V/F/F-V Converter	
60	AD650JN	12	40	.24	17M	10		10	07	X1146	DL14z	V/F/F-V Converter; Conversion - 1.0MHz	
61	AD650JQ	12	40	.24	17M	10		10	07	X1146	DL16z	V/F/F-V Converter; Conversion - 1.0MHz	
62	AD650KN	12	40	.24	17M	10		10	07	X1146	DL14z	V/F/F-V Converter; Conversion - 1.0MHz	
63	AD650KQ	12	40	.24	17M	10		10	07	X1146	DL16z	V/F/F-V Converter; Conversion - 1.0MHz	
64	AD650SQ	12	40	.24	17M	10		500m	10	5C	X1146	DL16z	V/F/F-V Converter; Conversion - 1.0MHz
65	INA101AM	12	40	600mΩ	10G	10	10m†	10	5C	X1912	TO100	Instrument Amp; Volt Drift .25uV/°C	
66	INA101BM	12	40	600mΩ	10G	10	10m†	10	5C	X1912	TO100	Instrument Amp; Volt Drift .25uV/°C	
67	INA101CM	12	40	600mΩ	10G	10	10m†	10	5C	X1912	TO100	Instrument Amp; Volt Drift .25uV/°C	
68	INA101SM	12	40	600mΩ	10G	10	10m†	10	5C	X1912	TO100	Instrument Amp; Volt Drift .25uV/°C	
69	SSM2011	12	40							X1403	DL16z	PreAmp/Level Detector; Volt Gain 60dB	
70	TL487CJG	14	12	825m	200 †				07	X1402	DL8v	DETECTOR; Step Analog; Vsupp Rng 10/18V	
71	TL487CP	14	12	200 †	200 †				07	X1402	DL8p	DETECTOR; 5 Step Log Analog; Level-Vsupp Rng 10/18V	
72	TL489CP	14	12	1.0	100 †				07	X1402	DL8p	DETECTOR; Step Analog; Vsupp Rng 10/18V	
73	TL480CJ	14	13	1.0	100k†	8.0 Δ		40	07		DL14cd	Analog Level Detector; 10-Step Logarithmic; OC Out	
74	TL480CN	14	13	1.1	100k†	8.0 Δ		40	07		DL14bw	Analog Level Detector; 10-Step Logarithmic; OC Out	
75	PD755	14	15	*	100k			10 †	07			PEAK DETECTOR/SAMPLE-HOLD; P.S. REGMT±15/ 5V	
76	PKD01AY	14	18	500mΩ		23		23	5C	X1916	DL14z	Monolithic Peak Detector w/Reset and Hold Mode	
77	PKD01BY	14	18	500mΩ		23		23	5C	X1916	DL14z	Monolithic Peak Detector w/Reset and Hold Mode	
78	PKD01EP	14	18	500mΩ		23		23	28	X1916	DL14z	Monolithic Peak Detector w/Reset and Hold Mode	
79	PKD01EY	14	18	500mΩ		23		23	28	X1916	DL14z	Monolithic Peak Detector w/Reset and Hold Mode	
80	PKD01FP	14	18	500mΩ		23		23	28	X1916	DL14z	Monolithic Peak Detector w/Reset and Hold Mode	
81	PKD01FY	14	18	500mΩ		23		23	28	X1916	DL14z	Monolithic Peak Detector w/Reset and Hold Mode	
82	PKD01N	14	18	500mΩ		23		23	5C	X1916	CHZ	Monolithic Peak Detector w/Reset and Hold Mode	
83	TL481CNG	14	35	2.0 Ω	100k†	8.0 Δ		18	07		DL14bw	Analog Level Detector; 10-Step Logarithmic; OE Out	
84	LF198H	15	15	500mΩ	10G†	12 †	2.0		28	X1501	CN1g	AMPLIFIER Sample and Hold; Vos 3.0mVΔ; IS 5.5mAΔ	
85	LF298H	15	15	500mΩ	10G†	12 †	2.0		28	X1501	CN1g	AMPLIFIER Sample and Hold; Vos 3.0mVΔ; IS 5.5mAΔ	
86	LF398H	15	15	500mΩ	10G†	12 †	4.0		28	X1501	CN1g	AMPLIFIER Sample and Hold; Vos 7.0mVΔ; IS 6.5mAΔ	
87	NE5537H	15	15	500mΩ	10G†	12 †	4.0		28	X1501	CN1g	AMPLIFIER Sample and Hold; Vos 7.0mVΔ; IS 7.5mAΔ	
88	SE5537H	15	15	500mΩ	10G†	12 †	2.0		5C	X1501	CN1g	AMPLIFIER Sample and Hold; Vos 3.0mVΔ; IS 6.5mAΔ	
89	SMP81EY	15	15	500mΩ	30G	15 †	.15 †		28	X1502	DL14br	AMPLIFIER; S/H; Telecommunications	
90	SMP81FY	15	15	500mΩ	50G†	15 †	.15 †		28	X1502	DL14br	AMPLIFIER; S/H; Telecommunications	
91	9081	15	15	1.8		12 †			28			S/H AMPL; 0.5V(HOLD); 2.0V(5mp); 34pin Module	
92	AD580KH	15	30	67m	30M	30	12		28	X1506	TO100	Sample/Hold Amp; 12 Bit Applications; ACQ Time 6uS	
93	AD582KD	15	30	67m	30M	30	12		28	X1508	DL14cb	Sample/Hold Amp; 12 Bit Applications; Acq Time 6uS	
94	AD582KH	15	30	67m	30M	30	12		28	X1506	TO100	Sample/Hold Amp; 12 Bit Applications; Acq Time 6uS	
95	AD582SD#mil	15	30	67m	30M	30	12		5C	X1508	DL14cb	Sample/Hold Amp; 12 Bit Applications; ACQ Time 6uS	
96	AD582SH#mil	15	30	67m	30M	30	12		5C	X1508	TO100	Sample/Hold Amp; 12 Bit Applications; Acq Time 6uS	
97	AD346JD	15	30	500m	30G	22	.15 †	22	07	X1507	DL14cw	Sample/Hold Amplifier; Acq Time 2.0uS to ±0.1%	
98	AD346SD#mil	15	30	500m	30G	22	.15 †	22	07	X1507	DL14cw	Sample/Hold Amplifier; ACQ Time 2.0uS to 0.1%	
99	SMP10EY	15	30	500mΩ	30GΔ	22	.15 †	22	07	X1502	DL14br	AMPLIFIER; S/H; Low Droop Rate; Data Acquisition;	
100	SMP10FY	15	30	500mΩ	15GΔ	21	.15 †	21	07	X1502	DL14br	AMPLIFIER; S/H; Low Droop Rate; Data Acquisition;	
101	SMP11EY	15	30	500mΩ	30GΔ	22	.15 †	22	07	X1502	DL14br	AMPLIFIER; S/H; Low Droop Rate; Data Acquisition;	
102	SMP11FY	15	30	500mΩ	15GΔ	21	.15 †	21	07	X1502	DL14br	AMPLIFIER; S/H; Low Droop Rate; Data Acquisition;	
103	SMP11GY	15	30	500mΩ	4.0G†	21	.15 †	21	07	X1502	DL14br	AMPLIFIER; S/H; Low Droop Rate; Data Acquisition;	
104	MH410	15	36	500mΩ	10G	28 †	2.0 †	28 †	28			Sample and Hold For Unregulated Supplies; 10uS ACQ	

10. SPECIAL FUNCTIONS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE P(OWER) & (4) TYPE No.

LINE No.	TYPE No.	U S E	PWR SUP @25°C		MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C		T C E O M D P E	DRAWINGS	GENERAL DESCRIPTION		
			RATED VOLT. (ΔV)	SPECS 3 MAX. IDLE P (W)	IMPEDANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)					
1▼	AD624A	16	18	90m	10G	10	10 *	28	X1916	DL16cz	Precision Monolithic Instrumentation Amplifier		
2▼	AD624B	16	18	90m	10G	10	10 *	28	X1916	DL16cz	Precision Monolithic Instrumentation Amplifier		
3▼	AD624C	16	18	90m	10G	10	10 *	28	X1916	DL16cz	Precision Monolithic Instrumentation Amplifier		
4▼	AD624S	16	18	90m	10G	10	10 *	5C	X1916	DL16cz	Precision Monolithic Instrumentation Amplifier		
5▼	AD624S/883B(M)	16	18	90m	10G	10	10 *	5C	X1916	DL16cz	Precision Monolithic Instrumentation Amplifier		
6	AD524A	16	30		1.0G	20		28	X1606	DL16c†	Instrument Amp;Gbp 25MHz;CMRR 120db (G 1000)		
7	AD524B	16	30		1.0G	20		28	X1606	DL16c†	Instrument Amp;Gbp 25MHz;CMRR 120db (G 1000)		
8	AD524C	16	30		1.0G	20		28	X1606	DL16c†	Instrument Amp;Gbp 25MHz;CMRR 120db (G 1000)		
9	AD524S	16	30		1.0G	20		5C	X1606	DL16c†	Instrument Amp;Gbp 25MHz;CMRR 120db (G 1000)		
10	AM542AMC	16	30		10T†	22	0.1	22	07	DL240	Programmable Gain Instrumentation Amp		
11	AM542AMM	16	30		10T†	22	0.1	22	5C	DL240	Programmable Gain Instrumentation Amp		
12	AM542AMR	16	30		10T†	22	0.1	22	28	DL240	Programmable Gain Instrumentation Amp		
13	AM543AMC	16	30		10T†	22	0.1	22	07	DL240	Programmable Gain Instru Amp;Sett Time 10uSec		
14	AM543AMM	16	30		10T†	22	0.1	22	5C	DL240	Programmable Gain Instru Amp;Sett Time 10uSec		
15	AM543AMR	16	30		10T†	22	0.1	22	28	DL240	Programmable Gain Instru Amp;Sett Time 10uSec		
16	LM163AD	16	30		2.0G		5.0k	5C	X1604	DL16bs	Instrumentation Amp;w/Fixed Gains		
17	LM163AH10	16	30		2.0G		5.0k	5C	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
18	LM163AH100	16	30		2.0G		5.0k	5C	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
19	LM163AH500	16	30		2.0G		5.0k	5C	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
20	LM163D	16	30		2.0G		5.0k	5C	X1604	DL16bs	Instrumentation Amp;w/Fixed Gains		
21	LM163H10	16	30		2.0G		5.0k	5C	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
22	LM163H100	16	30		2.0G		5.0k	5C	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
23	LM163H500	16	30		2.0G		5.0k	5C	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
24	LM363AD	16	30		2.0G		5.0k	07	X1604	DL16bs	Instrumentation Amp;w/Fixed Gains		
25	LM363AH10	16	30		2.0G		5.0k	07	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
26	LM363AH100	16	30		2.0G		5.0k	07	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
27	LM363AH500	16	30		2.0G		5.0k	07	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
28	LM363D	16	30		2.0G		5.0k	07	X1604	DL16bs	Instrumentation Amp;w/Fixed Gains		
29	LM363H10	16	30		2.0G		5.0k	07	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
30	LM363H100	16	30		2.0G		5.0k	07	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
31	LM363H500	16	30		2.0G		5.0k	07	X1604	TO5	Instrumentation Amp;w/Fixed Gains		
32	AD524JD#ai	16	30	90m	1.0G	20		20	07	X1606	DL16au	Precision Instrumentation Amp.	
33	AD524JN#ai	16	30	90m	1.0G	20		20	07	X1606	DL16w	Precision Instrumentation Amp.	
34	AD524KD#ai	16	30	90m	1.0G	20		20	07	X1606	DL16au	Precision Instrumentation Amp.	
35	AD524KN#ai	16	30	90m	1.0G	20		20	07	X1606	DL16w	Precision Instrumentation Amp.	
36	AD524LD#ai	16	30	90m	1.0G	20		20	5C	X1606	DL16au	Precision Instrumentation Amp.	
37	AD524LN#ai	16	30	90m	1.0G	20		20	07	X1606	DL16w	Precision Instrumentation Amp.	
38	BUF03AJ	18	15 *	1.0 Ω	500G	11 ♦	2.0		5C	TO99	AMPLIFIER;Buffer/Voltage Follower;Un ty Gain		
39	BUF03BJ	18	15 *	1.0 Ω	400G	11 ♦	2.0		5C	TO99	AMPLIFIER;Buffer/Voltage Follower;Un ty Gain		
40	BUF03EJ	18	15 *	1.0 Ω	500G	11 ♦	2.0		07	TO99	AMPLIFIER;Buffer/Voltage Follower;Un ty Gain		
41	BUF03FJ	18	15 *	1.0 Ω	400G	11 ♦	2.0		07	TO99	AMPLIFIER;Buffer/Voltage Follower;Un ty Gain		
42	AH0010F(A)	18	36	150m†	500k†	24	100	20		X1807	LL24a	Voltage Follower/Current Booster	
43	CTS0002H/B	18	40	600mΔ	400k	40	6.0		5C	A570	CN1a	Buffer Amp,used with Op Amp to Add output Current	
44	CTS0003ZB	18	40	1.5 Δ	100G		10		5C	X1810	CN34a	Buffer Amp for Interfacing/Line Driving Req	
45	CTS0002GB	18	44	600mΔ	400k	44	10	20	5C	A570	CN1a	Buffer Amp used w/OP Amp to Add Output Current	
46	9491AJ	19							06	TO92	TO18	AMPL,Volt Ref 1.22Volts;Temp Coef 5.0ppm/°C	
47	9491AM	19							5C	TO18	TO18	AMPL,Volt Ref 1.22Volts;Temp Coef 5.0ppm/°C	
48	9491BJ	19							06	TO92	TO18	AMPL,Volt Ref 1.22Volts;Temp Coef 10.0ppm/°C	
49	9491BM	19							5C	TO18	TO18	AMPL,Volt Ref 1.22Volts;Temp Coef 10.0ppm/°C	
50#	ZN243E	19							1.2	07	X1905	TO18	Precision Reference Source
51#	ZNREF025A1	19							2.4	5C	X1913	TO18	Precision Reference Source;Tolerance 1%
52▼#	ZNREF025A2	19							2.4	5C	X1913	TO18	Precision Reference Source;Tolerance 1%
53#	ZNREF025A3	19							2.4	5C	X1913	TO18	Precision Reference Source;Tolerance 1%
54#	ZNREF025B1	19							2.4	28	X1913	TO18	Precision Reference Source;Tolerance 1%
55#	ZNREF025B2	19							2.4	28	X1913	TO18	Precision Reference Source;Tolerance 2%
56#	ZNREF025B3	19							2.4	28	X1913	TO18	Precision Reference Source;Tolerance 3%
57#	ZNREF025C1	19							2.4	07	X1913	TO18	Precision Reference Source;Tolerance 1%
58#	ZNREF025C2	19							2.4	07	X1913	TO18	Precision Reference Source;Tolerance 2%
59#	ZNREF025C3	19							2.4	07	X1913	TO18	Precision Reference Source;Tolerance 3%
60#	ZNREF100A1	19							9.8	5C	X1914	TO39	Precision Reference Source;Tolerance 1%
61#	ZNREF100A2	19							9.7	5C	X1914	TO39	Precision Reference Source;Tolerance 2%
62#	ZNREF100A3	19							9.9	5C	X1914	TO39	Precision Reference Source;Tolerance 3%
63#	ZNREF100B1	19							9.8	28	X1914	TO39	Precision Reference Source;Tolerance 1%
64#	ZNREF100B2	19							9.7	28	X1914	TO39	Precision Reference Source;Tolerance 2%
65#	ZNREF100B3	19							9.9	28	X1914	TO39	Precision Reference Source;Tolerance 3%
66#	ZNREF100C1	19							9.8	07	X1914	TO39	Precision Reference Source;Tolerance 1%
67#	ZNREF100C2	19							9.7	07	X1914	TO39	Precision Reference Source;Tolerance 2%
68#	ZNREF100C3	19							9.9	07	X1914	TO39	Precision Reference Source;Tolerance 3%
69	AD589JH	19		125mΩ			2.0		5.0m	07	CN25	Two-Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA	
70	AD589KH	19		125mΩ			2.0		5.0m	07	CN25	Two-Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA	
71	AD589LH	19		125mΩ			2.0		5.0m	07	CN25	Two-Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA	
72	AD589MH	19		125mΩ			2.0		5.0m	07	CN25	Two-Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA	
73	AD589SH	19		125mΩ			2.0		5.0m	5C	CN25	Two-Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA	
74▼	AD589SH/883B(M)	19		125mΩ			2.0		5.0m	5C	X1915	CN25e	Two Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA
75	AD589TH	19		125mΩ			2.0		5.0m	5C	CN25	Two-Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA	
76▼	AD589TH/883B(M)	19		125mΩ			2.0		5.0m	5C	X1915	CN25e	Two Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA
77	AD589UH	19		125mΩ			2.0		5.0m	5C	CN25	Two-Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA	
78▼	AD589UH/883B(M)	19		125mΩ			2.0		5.0m	5C	X1915	CN25e	Two Terminal IC 1.2 Volt Ref;Oper Rng 50u-5mA
79	VR182A	19		300mΔ			2.4		07	X1905	TO18	Volt Ref;Precision Bandgap;Tempco 60ppm/°C†	
80	VR182B	19		300mΔ			2.4		07	X1905	TO18	Volt Ref;Precision Bandgap;Tempco 35ppm/°C†	
81	VR182C	19		300mΔ			2.4		07	X1905	TO18	Volt ref;precision bandgap;Tempco 23ppm/°C†	
82#	ZN404	19		300m			2.3		07	X1905	CN2	Precision Reference Regulator;	
83	MP5010GN	19		600mΩ					07	TO92	TO92	Low Volt Ref Device;VBR reverse 1.20V ±t IR500uA	
84	MP5010HN	19		600mΩ					07	TO92	TO92	Low Volt Ref Device;VBR reverse 1.20V ±t IR500uA	
85	MP5010JT	19		750mΩ					5C	TO52	TO52	Low Volt Ref Device;VBR reverse 1.20V ±t IR 500uA	
86	MP5010KT	19		750mΩ					5C	TO52	TO52	Low Volt Ref Device;VBR reverse 1.20V ±t IR 500uA	
87#	ZNREF062AB1	19	6.2	300m					6.1	5B	X1913	TO18	Precision Reference Source;Tolerance 1%
88#	ZNREF062AB2	19	6.2	300m					6.0	5B	X1913	TO18	Precision Reference Source;Tolerance 1%
89#	ZNREF062AB3	19	6.2	300m					5.9	5B	X1913	TO18	Precision Reference Source;Tolerance 1%
90#	ZNREF062B1	19	6.2	300m					6.1	28	X1913	TO18	Precision Reference Source;Tolerance 2%
91#	ZNREF062B2	19	6.2	300m					6.0	28	X1913	TO18	Precision Reference Source;Tolerance 2%
92#	ZNREF062B3	19	6.2	300m					5.9	28	X1913	TO18	Precision Reference Source;Tolerance 2%
93#	ZNREF062C1	19	6.2	300m					6.1	07	X1913	TO18	Precision Reference Source;Tolerance 3%
94#	ZNREF062C2	19	6.2	300m					6.0	07	X1913	TO18	Precision Reference Source;Tolerance 3%
95#	ZNREF062C3	19	6.2	300m					5.9	07	X1913	TO18	Precision Reference Source;Tolerance 3%
96	MC1400AU2	19	15						2.5	07	X1906	DL8s	Volt Ref;Data Converter/Instrumentation App
97	MC1400AU5	19	15						5.0	07	X1906	DL8s	Volt Ref;Data Converter/Instrumentation App
98	MC1400AU6	19	15						6.2	07	X1906	DL8s	Volt ref;Data converter/instrumentation app
99	MC1400AU10	19	15						10	07	X1906	DL8s	Volt ref;Data converter/instrumentation app
100	MC1400U2	19	15						2.5	07	X1906	DL8s	Volt Ref;Data Converter/Instrumentation App
101	MC1400U5	19	15						5.0	07	X1906	DL8s	Volt Ref;Data Converter/Instrumentation App
102	MC1400U6	19	15						6.2	07	X1906	DL8s	Volt ref;Data converter/instrumentation app
103	MC1400U10	19	15						10	07	X1906	DL8s	Volt ref;Data converter/instrumentation app
104	MC1500AU2	19	15						2.5	5C	X1906	DL8s	Volt Ref;Data Converter/Instrumentation App
105	MC1500AU5	19	15						5.0	5C	X1906	DL8s	Volt Ref;Data Converter/Instrumentation App
106	MC1500AU6	19	15						6.2	5C	X1906	DL8s	Volt Ref;Data Converter/Instrumentation App
107	MC1500AU10	19	15						10	5C	X1906	DL8s	Volt Ref;Data Converter/Instrumentation App

10. SPECIAL FUNCTIONS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	TYPE No.	U S E	PW/R SUP @25°C FATED SPECS 2 | TOT. | 3 | MAX. VOLT. | IDLE P (ΔV) | (W)	MIN. INPUT CHAR. @25°C IMPED- ANCE (Ω)	VOLT RANGE (ΔV)	OUTPUT CHAR. @25°C MAX. MIN VOLT IMP. RANGE (ΔV)		T C E O M D P E	C K T.	DRAWINGS OUT- LINE Δ=MO	GENERAL DESCRIPTION
						5C	5C				
1	MC1500U2	19	15			2.5	5C	X1906	DL8s	Volt Ref;Data Conver/Instrumentation App	
2	MC1500U5	19	15			5.0	5C	X1906	DL8s	Volt Ref;Data Conver/Instrumentation App	
3	MC1500U6	19	15			6.2	5C	X1906	DL8s	Volt Ref;Data Conver/Instrumentation App	
4	MC1500U10	19	15			10	5C	X1906	DL8s	Volt Ref;Data Conver/Instrumentation App	
5	9496DJ	19	15	500mZ	28		06	X1902	DL8az	Ampl,Volt Ref 10Volts,Temp Stab 3ppm/°C;Io 10mA	
6	9496HJ	19	15	500mZ	28		06	X1902	DL8az	Ampl,Volt Ref 10Volts,Temp Stab 3ppm/°C;Io 10mA	
7	9495AE	19	15	500mZ	33		5C	X1901	TO99	AMPL,Volt Ref 5 Volts;Temp Stab 3ppm/°C;Io 10mA	
8	9495BE	19	15	500mZ	33		5C	X1901	TO99	AMPL,Volt Ref 5 Volts;Temp Stab 3ppm/°C;Io 10mA	
9	9495CE	19	15	500mZ	33		07	X1901	TO99	AMPL,Volt Ref 5 Volts;Temp Stab 3ppm/°C;Io 10mA	
10	9495CJ	19	15	500mZ	33		07	X1901	DL8az	AMPL,Volt Ref 5 Volts;Temp Stab 3ppm/°C;Io 10mA	
11	9495DE	19	15	500mZ	33		06	X1901	TO99	AMPL,Volt Ref 5 Volts;Temp Stab 3ppm/°C;Io 10mA	
12	9495DJ	19	15	500mZ	33		06	X1901	DL8az	AMPL,Volt Ref 5 Volts;Temp Stab 3ppm/°C;Io 10mA	
13	9495EE	19	15	500mZ	33		07	X1901	TO99	AMPL,Volt Ref 5 Volts;Temp Stab 3ppm/°C;Io 10mA	
14	9495HE	19	15	500mZ	33		06	X1901	TO99	AMPL,Volt Ref 5 Volts;Temp Stab 3ppm/°C;Io 10mA	
15	9495HJ	19	15	500mZ	33		06	X1901	DL8az	AMPL,Volt Ref 5 Volts;Temp Stab 3ppm/°C;Io 10mA	
16	9496AE	19	15	500mZ	18		5C	X1902	TO99	AMPL,Volt Ref 10 Volts;Temp Stab 3ppm/°C;Io 10mA	
17	9496BE	19	15	500mZ	28		5C	X1902	TO99	AMPL,Volt Ref 10 Volts;Temp Stab 3ppm/°C;Io 10mA	
18	9496CE	19	15	500mZ	18		07	X1902	TO99	AMPL,Volt Ref 10 Volts;Temp Stab 3ppm/°C;Io 10mA	
19	9496CJ	19	15	500mZ	18		07	X1902	DL8az	AMPL,Volt Ref 10 Volts;Temp Stab 3ppm/°C;Io 10mA	
20	9496EE	19	15	500mZ	18		07	X1902	TO99	AMPL,Volt Ref 10 Volts;Temp Stab 3ppm/°C;Io 10mA	
21	9496HE	19	15	500mZ	28		06	X1902	TO99	AMPL,Volt Ref 10Volts;Temp Stab 3ppm/°C;Io 10mA	
22	REF81EJ	19	15	500mZ	12		28	X1903	TO99	VOLTAGE REF for Telecommunication Application	
23	REF81HJ	19	15	500mZ	12		10	X1903	TO99	VOLTAGE REF for Telecommunication Application	
24	REF82EJ	19	15	500mZ	7.0		5.0	X1903	TO99	VOLTAGE REF for Telecommunication Application	
25	REF82HJ	19	15	500mZ	7.0		5.0	X1903	TO99	VOLTAGE REF for Telecommunication Application	
26	HSREF01	19	30	15mΔ			100	X1904	TO99	Voltage Reference;Bond Gap;In Volt Range 13V-33VC	
27	HSREF02	19	30	15mΔ			5.0	X1904	TO99	Voltage Reference;Bond Gap;In Volt Range 8V-33V	
28	AD2710KN	19	30	300m	36	.05	20	X1907	DL14cz	Precision 10,000V Reference Source.	
29	AD2710LN	19	30	300m	36	.05	20	X1907	DL14cz	Precision 10,000V Reference Source.	
30	AD2712KN	19	30	450m	36	.05	20	X1907	DL14cz	Precision 10,000V Reference Source	
31	AD2712LN	19	30	450m	36	.05	20	X1907	DL14cz	Precision 10,000V Reference Source.	
32	MP5531CJ	19	30	500mZ	7.0		5.0	X1901	TO99	Precision Voltage Reference;VIN 15V	
33	MP5531CP	19	30	500mZ	7.0		5.0	X1901	DL8be	Precision Voltage Reference;VIN 15V	
34	MP5531DJ	19	30	500mZ	7.0		4.9	X1901	TO99	Precision Voltage Reference;VIN 15V	
35	MP5531DP	19	30	500mZ	7.0		4.9	X1901	DL8be	Precision Voltage Reference;VIN 15V	
36	MP5532CJ	19	30	500mZ	12		9.9	X1901	TO99	Precision Voltage Reference ;VIN 15V	
37	MP5532CP	19	30	500mZ	12		9.9	X1901	DL8be	Precision Voltage Reference ;VIN 15V	
38	MP5532DJ	19	30	500mZ	12		9.9	X1901	TO99	Precision Voltage Reference ;VIN 15V	
39	MP5532DP	19	30	500mZ	12		9.9	X1901	DL8be	Precision Voltage Reference ;VIN 15V	
40	REF05BL(M)	19	30	500mZ	33		30m	X2403	TO99	Voltage Ref;Long Term Stability	
41	REF05BLZ(M)	19	30	500mZ	33		30m	X2404		Voltage Ref;Long Term Stability	
42	REF05BZ(M)	19	30	500mZ	33		30m	X2404		Voltage Ref;Long Term Stability	
43	REF05FJ(A)	19	30	500mZ	33		40m	X2403	TO99	Voltage Ref;Long Term Stability	
44	REF05FLJ(A)	19	30	500mZ	33		40m	X2403		Voltage Ref;Long Term Stability	
45	REF05FLZ(A)	19	30	500mZ	33		40m	X2404		Voltage Ref;Long Term Stability	
46	REF05FZ(A)	19	30	500mZ	33		40m	X2404		Voltage Ref;Long Term Stability	
47	REF10BLJ(M)	19	30	500mZ	28		60m	X2403	TO99	VOLTAGE REF;Long term stability;	
48	REF10BLJ#mil	19	30	500mZ	28		60m	X2403	TO99	Voltage Ref;Long Term Stability.	
49	REF10BZ(M)	19	30	500mZ	28		60m	X2404	DLZ	Volt Ref Long Term Stability.	
50	REF10FLZ(A)	19	30	500mZ	28		10m	X2404	DLZ	Volt Ref;Long Term Stability	
51	L5630	19	33	200mZ					27	REFERENCE VOLTAGE for Elec Tuner;Iz-10mAΔ;Rz 25Ω	
52	AD1403AN	19	35	60m			07	X1911	DL8j	Precision 2.5 IC Volt Ref;Initial Tol ±10mV	
53	AD1403N	19	35	60m			07	X1911	DL8j	Precision 2.5 IC Volt Ref;Initial Tol ±25mV	
54	AD2720CH(M)	19	36	90mΔ			28	X1909	TO99	High Precision Reference ±10000 Volt	
55	AD2720SH/883B(M)	19	36	90mΔ			5C	X1909	TO99	High Precision Reference ±10000 Volt	
56	AD2720TH/883B(M)	19	36	90mΔ			5C	X1909	TO99	High Precision Reference ±10000 Volt	
57	ICL8075-0D1JCTV	19	36	450mZ			10	X1907	TO99	Precision Temp Stabilized Volt Reference	
58	ICL8075-0D1LCTV	19	36	450mZ			10	X1907	TO99	Precision Temp Stabilized Volt Reference	
59	ICL8076-1D0LCTV	19	36	450mZ			1.0	X1907	TO99	Precision Temp Stabilized Volt Reference	
60	ICL8077-2B5JCTV	19	36	450mZ			2.5	X1908	TO99	Precision Temp Stabilized Volt Reference	
61	ICL8077-2B5LCTV	19	36	450mZ			2.5	X1908	TO99	Precision Temp Stabilized Volt Reference	
62	ICL8077-2D5JCTV	19	36	450mZ			2.5	X1908	TO99	Precision Temp Stabilized Volt Reference	
63	ICL8077-2D5LCTV	19	36	450mZ			2.5	X1908	TO99	Precision Temp Stabilized Volt Reference	
64	ICL8078-5B1JCTV	19	36	450mZ			5.1	X1908	TO99	Precision Temp Stabilized Volt Reference	
65	ICL8078-5B1LCTV(A)	19	36	450mZ			5.1	X1908	TO99	Precision Temp Stabilized Volt Reference	
66	ICL8078-5D0JCTV	19	36	450mZ			5.0	X1908	TO99	Precision Temp Stabilized Volt Reference	
67	ICL8078-5D0LCTV	19	36	450mZ			5.0	X1908	TO99	Precision Temp Stabilized Volt Reference	
68	ICL8079-10BJCTV	19	36	450mZ			10	X1908	TO99	Precision Temp Stabilized Volt Reference	
69	ICL8079-10BLCTV	19	36	450mZ			10	X1908	TO99	Precision Temp Stabilized Volt Reference	
70	ICL8079-10DJCTV	19	36	450mZ			10	X1908	TO99	Precision Temp Stabilized Volt Reference	
71	ICL8079-10DLCTV	19	36	450mZ			10	X1908	TO99	Precision Temp Stabilized Volt Reference	
72	MP5531AJ	19	40	500mZ	7.0		5C	X1901	TO99	Precision Voltage Reference;VIN 15V	
73	MP5531AP	19	40	500mZ	7.0		5C	X1901	DL8be	Precision Voltage Reference;VIN 15V	
74	MP5531BJ	19	40	500mZ	7.0		5C	X1901	TO99	Precision Voltage Reference;VIN 15V	
75	MP5531BP	19	40	500mZ	7.0		5C	X1901	DL8be	Precision Voltage Reference;VIN 15V	
76	MP5531EJ	19	40	500mZ	7.0		07	X1901	TO99	Precision Voltage Reference ;VIN 15V	
77	MP5531EJ	19	40	500mZ	7.0		5.0	X1901	DL8be	Precision Voltage Reference ;VIN 15V	
78	MP5531HJ	19	40	500mZ	7.0		5.0	X1901	TO99	Precision Voltage Reference ;VIN 15V	
79	MP5531HP	19	40	500mZ	7.0		5.0	X1901	DL8be	Precision Voltage Reference ;VIN 15V	
80	MP5532AJ	19	40	500mZ	12		10	X1901	TO99	Precision Voltage Reference ;VIN 15V	
81	MP5532AP	19	40	500mZ	12		10	X1901	DL8be	Precision Voltage Reference ;VIN 15V	
82	MP5532BJ	19	40	500mZ	12		10	X1901	TO99	Precision Voltage Reference ;VIN 15V	
83	MP5532BP	19	40	500mZ	12		10	X1901	DL8be	Precision Voltage Reference ;VIN 15V	
84	MP5532EJ	19	40	500mZ	12		10	X1901	TO99	Precision Voltage Reference;VIN 15V	
85	MP5532EP	19	40	500mZ	12		10	X1901	DL8be	Precision Voltage Reference;VIN 15V	
86	MP5532HJ	19	40	500mZ	12		10	X1901	TO99	Precision Voltage Reference;VIN 15V	
87	MP5532HP	19	40	500mZ	12		10	X1901	DL8be	Precision Voltage Reference;VIN 15V	
88	ZN149CE	20	5.0	300mZ			26	X1901	DL14z	Precision Servo IC;Quies I 7mAAt 4.8V;Rev Relay	
89	ZN409CE	20	6.5	300m*			26	X2001	DL14z	Precision Servo IC;Supply I 10mA max	
90	ISO100AP(A)	21	30			2.0G	4A	X2103	MS37	Isolation Amp;Wideband-Low Drift	
91	ISO100BP(A)	21	30			2.0G	4A	X2103	MS37	Isolation Amp;Wideband-Low Drift	
92	ISO100CP(A)	21	30			2.0G	4A	X2103	MS37	Isolation Amp;Wideband-Low Drift	
93	VTD600	23					60			Buffered Var-Tune Trans Osc;Freq Rng 0.6-1.0GHz	

10. SPECIAL FUNCTIONS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	TYPE No.	USE	PWR SUP @25°C RATED SPECS		MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C		T C E O M D P E	DRAWINGS	GENERAL DESCRIPTION
			TOT. VOLT. (ΔV)	MAX. IDLE P (W)	IMPED-ANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)				CKT.	OUT-LINE Δ=MO
1	VTD2000	23						30			Buffered Var-Tune Trans Osc;Freq Rng 2.0-2.8GHz
2	VTD2800	23						30			Buffered Var-Tune Trans Osc;Freq Rng 2.8-3.8GHz
3	VTD3800	23						30			Buffered Var-Tune Trans Osc;Freq Rng 3.8-4.9GHz
4	VTD4900	23						30			Buffered Var-Tune Trans Osc;Freq Rng 4.9-6.1GHz
5	VTO8060	23		750m†		3.0		40		TO8	Varactor Tuned Transistor Osc;Freq Rng 600M-1.0GHz
6	VTO8090	23		750m†		2.0		48		TO8	Varactor Tuned Transistor Osc;Freq Rng 900M-1.6GHz
7	VTO8150	23		750m†		2.5		47		TO8	Varactor Tuned Transistor Osc;Freq Rng 1.5-2.5GHz
8	VTO8240	23		750m†		2.0		30		TO8	Varactor Tuned Transistor Osc;Freq Rng 2.4-3.7GHz
9	VTO8360	23		750m†		8.0		24		TO8	Varactor Tuned Transistor Osc;Freq Rng 3.6-4.3GHz
10	VTO8420	23		750m†		7.5		25		TO8	Varactor Tuned Transistor Osc;Freq Rng 4.2-5.0GHz
11	VTO8490	23		750m†		5.5		24		TO8	Varactor Tuned Transistor Osc;Freq Rng 4.9-8.9GHz
12	VTO8580	23		750m†		5.0		24		TO8	Varactor Tuned Transistor Osc;Freq Rng 5.8-6.6GHz
13	SN74LS320	23	5.0 §			7.5 Δ			07	X2301	Osc;Xtal control;Fo 20MHzΔ;2 phase driver output
14	SN74LS321	23	5.0 §			7.5 Δ			07	X2301	Same as SN74LS320 plus F2/F4 outputs
15#	HD14541B	23	15	300m‡	100 †				48		Program Oscillator/Timer;PRF at VDD 15V 6.0MHz
16▼	TDA0159A	23	16 §		2.0m†*				\$F	X2302	Proximity Detector;Osc Freq 50kHz to 10MHz;Io 20mA
17	SAD512	26	30				1.0k		07		Analog Delay Lines;512 Stage BBD
18	SAD1024	26	30				1.0k		07		Dual Analog Delay Lines;512 Stage BBD
19	SAD4096	26	36						07		Audio Delay Line 4096 BBD

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	U	T	E	O	DRAWINGS		GENERAL DESCRIPTION
						CKT.	OUT-LINE Δ=MO	
1	LM135AH	10	5E	Z59BN	TO46			Precision temp sensors;Temp acc;Oper Vo 2.99VΔ,Unscalib. temp error .5°C at TC 25°C
2	LM135H	10	5E	Z59BN	TO46			Precision temp sensors;Temp acc;Oper Vo 3.01VΔ,Unscalib. temp error 1°C at TC 25°C
3	LM235AH	10	4C	Z59BN	TO46			PRECISION TEMPERATURE SENSORS;Temp Acc;Oper Vo 2.99VΔ,Unscalib. Temp Error .5°C at TC 25°C
4	LM235H	10	4C	Z59BN	TO46			Precision temp sensors;Temp acc;Oper Vo 3.01VΔ,Unscalib. temp error 1°C at TC 25°C
5	LM335AH	10	1A	Z59BN	TO46			PRECISION TEMPERATURE SENSORS;Temp Acc;Oper Vo 3.01VΔ,Unscalib. Temp Error 1°C at TC 25°C
6	LM335AZ	10	1A	Z59BN	TO32			PRECISION TEMPERATURE SENSORS;Temp Acc;Oper Vo 3.04VΔ,Unscalib. Temp Error 1°C at TC 25°C
7	LM335H	10	1A	Z59BN	TO46			PRECISION TEMPERATURE SENSORS;Temp Acc;Oper Co 3.04VΔ,Unscalib. Temp Error 2°C at TC 25°C
8	LM335Z	10	1A	Z59BN	TO92			PRECISION TEMPERATURE SENSORS;Temp Acc;Oper Vo 3.04VΔ,Unscalib. Temp Error 2°C at TC 25°C
9	ICH8510IKA	11	28	Z59A	CN22g			Power Ampl,Motor and Actuator Driver;Output Driver Current 1.0A max at 24.28V;Gain 90dB
10	ICH8510MKA	11	5C	Z59A	CN22g			Power Ampl,Motor and Actuator Driver;Output Driver Current 1.0A max at 24.28V;Gain 90dB
11	ICH8515IKA	11	28	Z59Aa	TO3			Power Amp Motor/Actuator Driver; Iout 1.25A at 12VDC;Large Signal Gv 100dB min
12	ICH8515MKA	11	5C	Z59Aa	TO3			Power Amp Motor/Actuator Driver; Iout 1.5A at 12VDC;Large Signal Gv 100dB min
13	ICH8520IKA	11	28	Z59A	CN22g			Power Ampl,Motor and Actuator Driver;Output Driver Current 2.0A max at 24.28V;Gain 90dB
14	ICH8520MKA	11	5C	Z59A	CN22g			Power Ampl,Motor and Actuator Driver;Output Driver Current 2.0A max at 24.28V;Gain 90dB
15	ICH8530IKA	11	28	Z59A	CN22g			Power Ampl,Motor and Actuator Driver;Output Driver Current 2.7A max at 24.28V;Gain 90dB
16	ICH8530MKA	11	5C	Z59A	CN22g			Power Ampl,Motor and Actuator Driver;Output Driver Current 2.7A max at 24.28V;Gain 90dB
17	SA41027N	11	27	Z8213	DL16p			Stepper Motor Driver Circuit;For 4 Phase 2 Stator Motor Vs 12V;Io 350mA
18	CS102-1	12	27	Z59CZ	DL8bmm			Level Detector/Schmitt Trigger;Vs 9.0V
19	CS122	12	27	Z59GZ	DL8bm			Level Detector/Schmitt Trigger;Dual Mono;Vs 9.0V
20	LM1830N	12	48	Z5921	DL14ce			Fluid Detector;Vcc 16V;Osc Freq 12kHzΔ;Det Threshold Voltage 680mV†
21#	TC4105	12	28	Z59L	DL6b			Threshold Detector for Contactless Switching;Vs 12V Typ;Is 5.0mA;Hysteresis 25mV min
22#	TC4105B	12	28	Z59L	DL6b			Threshold Detector for Contactless Switching;Vs 12V Typ;Is 5.0mA;Hysteresis 25mV min
23#	TC4105BW	12	28	Z59L	FP55			Threshold Detector for Contactless Switching;Vs 12V Typ;Is 5.0mA;Hysteresis 25mV min
24#	TC4105GG	12	28	Z59L	DU6b			Threshold Detector for Contactless Switching;Vs 12V Typ;Is 5.0mA;Hysteresis 25mV min
25#	TC4105W	12	28	Z59L	FP55			Threshold Detector for Contactless Switching;Vs 12V Typ;Is 5.0mA;Hysteresis 25mV min
26#	TC4345A	12	27	Z59H	DL4a			THRESHOLD DETECTOR
27#	TC4345W	12	29		FP55			Threshold Detector
28	TL480CJ	12	07	Z59AX				10-Step Analog Level Detector Open-Collector Outputs Capable of Sinking 40mA Withstand 32V
29	TL487CJ	12	07	Z5924				Detect and Indicate Analog Signal Levels High Input Impedance 200KΩ Typical, Diss 825mW
30	TL487CP	12	07	Z5924				Detect and Indicate Analog Signal Levels High Input Impedance 200KΩ Typical,Diss 1000mW
31	TL489CP	12	07	Z5924	DL8p			Analog Level Detector;Vs 10-18V,5 Comparators,ZI 100kΩ†,Isink 80mAΔ
32	TL490CJ	12	07		DL18p			10-Step Analog Level Det,Cascadable;50mV to 200mV Thres Incr;Vs 10-18V;OC Outs to 40mA,32V
33	TL490CJ	12	07		DL18b			10-Step Analog Level Det,Cascadable;50mV to 200mV Thres Incr;Vs 10-18V;OC Outs to 40mA,32V
34	TL491CJ	12	07		DL16b			10-Step Analog Level Det,Cascadable;50mV to 200mV Thres Incr;Vs 10-18V;Emitter Pull-up Out
35	TL491CN	12	07		DL16b			10-Step Analog Level Det,Cascadable;50mV to 200mV Thres Incr;Vs 10-18V;Emitter Pull-up Out
36	TL580CJG	12	07	Z5928	DL8v			Precision Level Detector;Stable Threshold Level,Threshold Hysteresis
37	ULN260CP	12	07	Z5928	DL8p			Precision Level Detector;Stable Threshold Level,Threshold Hysteresis
38	ULN2429A	12	48	Z598C	DL14cg			Fluid Detector W/High Output Curr,AC/DC Out,Single-Wire Probe,Rev Voltage Protec,Int Reg
39	3041	13	28	Z598C	DL8x			
40	3051	13	28	Z5942	DL8aj			AC Detector;VS 4.5V-18V;Is 6.0mAΔ,Imp,Imp. 100kΩ;Freq 1.0MHz;Outp.Sink Cur. 500uAΔ.
41	ICL7665/D	13	27	Z6323	CH62			Micropower Under-I/Over-Voltage Detector;Vs 18V;Isink 25mA
42	ICL7665/A	13	27	Z6323	DL8d			Micropower Under-I/Over-Voltage Detector;Vs 18V;Isink 25mA
43	ICL7665/V	13	27	Z6323	TO99			Micropower Under-I/Over-Voltage Detector;Vs 18V;Isink 25mA
44	ICL8211CPA	13	07	Z59C	DL8ak			Micro Power Voltage Detector/Indicator/Voltage Regulator/Prog Zener;Vs 1.8-30V;Io 7.0mA
45	ICL8211CTY	13	07	Z59D	TO99			Micro Power Voltage Detector/Indicator/Voltage Regulator/Prog Zener;Vs 1.8-30V;Io 7.0mA
46	ICL8211D	13	07	Z59B	CH44			Micro Power Voltage Detector/Indicator/Voltage Regulator/Prog Zener;Vs 1.8-30V;Io 7.0mA
47	ICL8211MTY	13	5C	Z59D	TO99			Micro Power Voltage Detector/Indicator/Voltage Regulator/Prog Zener;Vs 1.8-30V;Io 7.0mA
48	ICL8212CPA	13	07	Z59C	DL8ak			Micro Power Voltage Detector/Indicator/Voltage Regulator/Prog Zener;Vs 1.8-30V;Io 35mA
49	ICL8212CTY	13	07	Z59D	TO99			Micro Power Voltage Detector/Indicator/Voltage Regulator/Prog Zener;Vs 1.8-30V;Io 35mA
50	ICL8212D	13	07	Z59B	CH44			Micro Power Voltage Detector/Indicator/Voltage Regulator/Prog Zener;Vs 1.8-30V;Io 35mA
51	ICL8212MTY	13	5C	Z59D	TO99			Micro Power Voltage Detector/Indicator/Voltage Regulator/Prog Zener;Vs 1.8-30V;Io 35mA
52#	MB3761M	13	07	Z59CU	DL8y			Low Pwr Volt Detector/Indicator/Volt Reg/Prog Zener;20Vs 2.5-40V;Io 4.5mA
53	MC3423JG	13	06	Z6408	DL8v			Overvoltage Sensing Ckt;Vs 5V to 36V,Threshold Sense Voltage 2.45V* Pd 50mW Quiescent
54	MC3423P1	13	06	Z6408	DL8ac			Overvoltage Sensing Ckt;Vs 5V to 36V,Threshold Sense Voltage 2.45V* Pd 50mW Quiescent
55	MC3423P	13	06	Z6408	DL8p			Overvoltage Sensing Ckt;Vs 5V to 36V,Threshold Sense Voltage 2.45V* Pd 50mW Quiescent
56	MC3423U	13	06	Z6408	DL8s			Overvoltage Sensing Ckt;Vs 5V to 36V,Threshold Sense Voltage 2.45V* Pd 50mW Quiescent
57	MC3523JG	13	5C	Z6408	DL8v			Overvoltage Sensing Ckt;Vs 5V to 36V,Threshold Sense Voltage 2.45V* Pd 35mW Quiescent
58	MC34061AP1	13	07	Z6426	DL8ac			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
59	MC34061AP	13	07	Z6426	TO92			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
60	MC34061AU	13	07	Z6426	DL8s			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
61	MC34061P1	13	07	Z6426	DL8ac			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
62	MC34061P	13	07	Z6426	TO92			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
63	MC34061U	13	07	Z6426	DL8s			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
64	MC34062P1	13	07	Z6426	DL8ac			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
65	MC34062U	13	07	Z6426	DL8s			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
66	MC35061AU	13	5C	Z6426	DL8s			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
67	MC35061U	13	5C	Z6426	DL8s			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
68	MC35062U	13	5C	Z6426	DL8s			Overvolt (Crowbar) Sensing Ckt;SCR Gate Drive Out 200mA
69	SG1542J	13	5C	Z6401	DL16o			Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 7.0mA max
70	SG1542N	13	5C	Z6401	DL16o			Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 7.0mA max
71	SG2542J	13	28	Z6401	DL16o			Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 7.0mA max
72	SG2542N	13	28	Z6401	DL16o			Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 7.0mA max
73	SG3423AM	13	07	Z6408				Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 7.0mA max
74	SG3423AY	13	07	Z6408				Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 7.0mA max
75	SG3423M	13	07	Z6408				Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 10mA max
76	SG3423Y	13	07	Z6408				Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 10mA max
77	SG3523AM	13	5C	Z6408				Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 7.0mA max
78	SG3523AY	13	5C	Z6408				Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 7.0mA max
79	SG3523M	13	5C	Z6408				Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 10mA max
80	SG3523Y	13	5C	Z6408				Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 10mA max
81	SG3542J	13	07	Z6401	DL16o			Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 10mA max
82	SG3542N	13	07	Z6401	DL16o			Volt Sensor;Protect from Over-Voltage;Vin 40V;Isup 10mA max
83	SG3543J	13	07	Z6401	DL16o			Same as SG2543J But W/Larger Output Voltage Tolerance
84#	LM134H	14	5C	Z1401	TO46			3 Terminal Adj Current Source;Pd 200mWΔ;V to V. 40VΔ;Set Curr Error 3%Δ;Curr Reg .02%/V
85#	LM134H-3	14	5C	Z1401	TO46			3 Terminal Adj Current Source;Pd 200mWΔ;V to V. 30VΔ;Set Curr Error ±1%Δ;Curr Reg .02%/V
86#	LM134H-6	14	5C	Z1401	TO46			3 Terminal Adj Current Source;Pd 200mWΔ;V to V. 30VΔ;Set Curr Error ±2%Δ;Curr Reg .02%/V
87#	LM234H	14	29	Z1401	TO46			3 Terminal Adj Current Source;Pd 200mWΔ;V to V. 40VΔ;Set Curr Error 3%Δ;Curr Reg .02%/V
88#	LM234H-3	14	29	Z1401	TO46			3 Terminal Adj Current Source;Pd 200mWΔ;V to V. 30VΔ;Set Curr Error ±1%Δ;Curr Reg .02%/V
89#	LM234H-6	14	29	Z1401	TO46			3 Terminal Adj Current Source;Pd 200mWΔ;V to V. 30VΔ;Set Curr Error ±2%Δ;Curr Reg .02%/V
90#	LM234Z3	14	2A	Z1401	TO92			3 Terminal Adj Current Source;Pd 200mWΔ;V TO V. 30VΔ;Curr Reg .02%/V;Set Curr Error ±1%Δ
91#	LM234Z6	14	2A	Z1401	TO92			3 Terminal Adj Current Source;Pd 200mWΔ;V to V. 30VΔ;Curr Reg .02%/V;Set Curr Error ±2%Δ
92#	LM334H	14	07	Z1401	TO46			3 Terminal Adj Current Source;Pd 200mWΔ;V to V. 30VΔ;Set Curr Error 6%Δ;Curr Reg .02%/V
93#	LM334Z	14	07	Z1401	TO92			3 Terminal Adj Current Source;Pd 200mWΔ;V to V. 30VΔ;Curr Reg .02%/V;Set Curr Error ±2%Δ
94	MJ335	14	07	Z59CR				Current Source I30nA-I3.0mA Iout;Vs 40V Pd 500 mW
95#	MB3759C	15	18	Z59Cq	DL16ca			Switchmod Regulator Control Ckt; 40kHz Osc; Output Freq from 1kHz to 300kHz
96#	MB3759M	15	18	Z59Cq	DL16cb			Switchmod Regulator Control Ckt; 40kHz Osc; Output Freq from 1kHz to 300kHz
97	MC3420L	15	07	Z5969	DL16bc			Switchmod Regulator Control Circuit;100kHz Osc;Output Freq Adj from 2kHz To 100kHz
98	MC3420P	15	07	Z5969	DL16am			Switchmod Regulator Control Circuit;100kHz Osc;Output Freq Adj from 2kHz To 100kHz
99	MC3520L	15	5C	Z5969	DL16bi			Switchmod Regulator Control Circuit;100kHz Osc;Output Freq Adj from 2kHz To 100kHz
100	MC34060L	15	07	Z59CV	DL14bk			Switchmode PWM Control Circuits;Fixed Freq 350kHz
101	MC34060P	15	07	Z59CV	DL14bw			Switchmode PWM Control Circuits;Fixed Freq 350kHz
102	MC35060L	15	5C	Z59CV	DL14bk			Switchmode PWM Control Circuits;Fixed Freq 350kHz
103	PIC600	15	5C	Z59cm	TO66			Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 75nSec
104	PIC601	15	5C	Z59cm	TO66			Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 75nSec
105	PIC602	15	5C	Z59cm	TO66			Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 75nSec
106	PIC610	15	5C	Z59cn	TO66			Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 75nSec
107	PIC611	15	5C	Z59cn	TO66			Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 75nSec
108	PIC612	15	5C	Z59cn	TO66			Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 75nSec
109	PIC625	15	5C	Z59cm	TO66			Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 300nSec
110	PIC626	15	5C	Z59cm	TO66			Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 300nSec

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	1 U S E	T C O M P E	DRAWINGS CKT.	OUT- LINE Δ=MO	GENERAL DESCRIPTION
1	PIC627	15	5C	Z59cm	TO66	Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 300nSec
2	PIC635	15	5C	Z59cm	TO66	Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 300nSec
3	PIC636	15	5C	Z59cm	TO66	Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 300nSec
4	PIC637	15	5C	Z59cm	TO66	Switching Regulator 5Amp Pos/Neg Power Output Stage;Efficiency 85%;Tr,Tf 300nSec
5	PIC645	15	5C	Z59cm	TO3	Switching Regulator 15Amp Pos/Neg Output Stage;Efficiency 85%;Rt,Rf 300nSec
6	PIC646	15	5C	Z59cm	TO3	Switching Regulator 15Amp Pos/Neg Output Stage;Efficiency 85%;Rt,Rf 300nSec
7	PIC647	15	5C	Z59cm	TO3	Switching Regulator 15Amp Pos/Neg Output Stage;Efficiency 85%;Rt,Rf 300nSec
8	PIC655	15	5C	Z59cm	TO3	Switching Regulator 15Amp Pos/Neg Output Stage;Efficiency 85%;Rt,Rf 300nSec
9	PIC656	15	5C	Z59cm	TO3	Switching Regulator 15Amp Pos/Neg Output Stage;Efficiency 85%;Rt,Rf 300nSec
10	PIC657	15	5C	Z59cm	TO3	Switching Regulator 15Amp Pos/Neg Output Stage;Efficiency 85%;Rt,Rf 300nSec
11	PIC730	15	5C		TO3	Schottky Switching Regulator 30A,40V Power Output Stage;Vf 0.6V at 20A;90% Eff at 15Amps
12	PIC740	15	5C		TO3	Schottky Switching Regulator 30A,40V Power Output Stage;Vf 0.6V at 20A;90% Eff at 15Amps
13	PIC800	15	5C		TO66	Switching Regulator 8A;400V Power Output Stage;In/Out Volt 350V;Peak Out Curr 8.0AA
14	PIC801	15	5C		TO66	Switching Regulator 8A;400V Power Output Stage;In/Out Volt 400V;Peak Out Curr 8.0AS
15	PIC810	15	5C		TO66	Switching Regulator 8A;400V Power Output Stage;In/Out Volt 350V;Peak Out Curr 8.0A
16	PIC811	15	5C		TO66	Switching Regulator 8A;400V Power Output Stage;In/Out Volt 400V;Peak Out Curr 8.0A
17	UA78S40DC	15	07	Z5986	DL16m	Universal Switching Regulator Subsystem;Vs 40V;Pd 1.0WA;Vi 40VΔ;Vo 1.3-40VØ
18	UA78S40DM	15	5C	Z5986	DL16i	Universal Switching Regulator Subsystem;Vs 40V;Pd 1.0WA;Vi 40VΔ;Vo 1.3-40VØ
19	UA78S40PC	15	07	Z5986	DL16m	Universal Switching Regulator Subsystem;Vs 40VΔ;Pd 1.5WA;Vi 40VΔ;Vo 1.3-40VØ
20 #	U208B	15	4C	Z1503	DL8v	Monolithic I.C., Phase control circuit
21 #	U209B	15	4C	Z1504	DL14ah	Monolithic I.C., Phase control circuit
22 #	U211B	15	4C	Z1505	DL18j	Monolithic I.C., Phase control circuit
23 #	U2000B(A)	15	2C	Z1501	DL8v	Monolithic I.C. for photo flash control and for automatic darkroom timer
24 #	U2128B(A)	15	2F	Z1502	DL14ah	Monolithic I.C. for electronic car ignition
25 #	UAA4003DP(A)	15	4F	Z1506	DL16cs	Switch Mode Regulator for DC Motors;Max Supply Voltage -9V and 15V
26 #	TCA205A	16	28	Z59BM	DL14ab	Proximity Switch;Vs 12V;Is 2.0mAΔ;Output Sat Voltage 1.0VΔ;I _r 100uA at 30V
27 #	TCA205K	16	28	Z59BM	FP66	Proximity Switch;Vs 12V;Is 2.0mAΔ;Output Sat Voltage 1.0VΔ;I _r 100uA at 30V
28 #	TCA305A(A)	16	28	Z1603	DL14j	Proximity Switch;Vs 30V;Vo 30V;Io 25mA max;Freq. 0.015 to 1.5MHz
29 #	TCA305G(A)	16	28	Z1603	DL14j	Proximity Switch;Vs 30V;Vo 30V;Io 25mA max;Freq. 0.015 to 1.5MHz
30	TDA0159	16		Z1601	DL8br	Proximity Detector;Vs 5-16V;Freq osc 50k-10MHz
31 #	U243B	16	5C	Z1601	DL8v	Warning or car direction indicator;Flasher circuit, flashing generator
32 #	MB3760C	17	18	Z5926	DL18Q	Pulse Width Mod Control Ckt for PS, Vcc 15V, Pd 150mW,Quis,Vref 5.0Vt,Ao1 70dB
33 #	MB3760M	17	18	Z5926	DL18H	Pulse Width Mod Control Ckt for Ps,Vcc 15V,Pd 150mW,Quis,Vref 5.0Vt,Ao1 70dB
34	TL494CJ	17	07	Z59AA	DL16q	Pulse Width Mod Control Ckt For PS,Vcc 15V,Pd 150mW Quis,Vref 5.0Vt,Ao1 70dB*
35	TL494CN	17	07	Z59AA	DL16b	Pulse Width Mod Control Ckt For PS,Vcc 15V,Pd 150mW Quis,Vref 5.0Vt,Aor 70dB*
36	TL494JL	17	28	Z5925	DL16q	Pulse Width Mod Control Ckt For PS,Vcc 15V,Pd 150mW Quis,Vref 5.0Vt,Ao1 70dB*
37	TL494IN	17	28	Z5925	DL16b	Pulse Width Mod Control Ckt For PS,Vcc 15V,Pd 150mW Quis,Vref 5.0Vt,Ao1 70dB*
38	TL494MJ	17	5C	Z59AA	DL16q	Pulse Width Mod Control Ckt For PS,Vcc 15V,Pd 150mW Quis,Vref 5.0Vt,Ao1 70dB*
39	UC1840	17	5F	Z1701	DL18j	Programmable Off-Line PWM Controller;Vin 32V
40	UC2840	17	5F	Z1701	DL18j	Programmable Off-Line PWM Controller;Vin 32V
41	UC3840	17	5F	Z1701	DL18j	Programmable Off-Line PWM Controller;Vin 32V
42	XR1524M	17	5C	Z5605	DL14bp	Pulse Width Modulating Regulator;Pd 1.0WA;Ref Volt 5.0V;Line Reg 10mV;Max Freq 300kHz
43	XR2524N	17	07	Z5605	DL14bp	Pulse Width Modulating Regulator;Pd 1.0WA;Ref Volt 5.0V;Line Reg 10mV;Max Freq 300kHz
44	XR2524P	17	07	Z5605	DL14bp	Pulse Width Modulating Regulator;Pd 625mWA;Ref Volt 5.0V;Line Reg 10mV;Max Freq 300kHz
45	XR3524CN	17	07	Z5605	DL14bp	Pulse Width Modulating Regulator;Pd 1.0WA;Ref Volt 5.0V;Line Reg 10mV;Max Freq 300kHz
46	XR3524CP	17	07	Z5605	DL14bp	Pulse Width Modulating Regulator;Pd 625mWA;Ref Volt 5.0V;Line Reg 10mV;Max Freq 300kHz
47	TEA1001SP	18	4A	Z8006	M55	Switching Voltage Regulator for DC-DC Conversion;Vcc ±15V
48	TL497ACJ	18	07	Z5964	DL14ah	Switching Voltage Regulator for DC to DC Conversion;Io 500mA;Input Reg 0.2%t,Eff 60%*
49	TL497ACN	18	07	Z5964	DL14bw	Switching Voltage Regulator for DC to DC Conversion;Io 500mA;Input Reg 0.2%t,Eff 60%*
50	TL497AMJ	18	5C	Z5964	DL14ah	Switching Voltage Regulator for DC to DC Conversion;Io 500mA;Input Reg 0.2%t,Eff 60%*
51	UAA4001DP	18	4F	Z8006	DL16cs	Switching Voltage Regulator for DC-DC Conversion;Vcc ±15V
52	uPC616A	19	4C	Z5915	CN64c	Temperature Sensor Controllers;Vo 2.88-3.08V,Linearity 2% max,Ref Volt 6.55-7.25V
53	uPC616C	19	28	Z5915	DL8au	Temperature Sensor Controllers;Vo 2.88-3.08V,Linearity 2% max,Ref Volt 6.55-7.25V
54	uPC3911C	19	28	Z5915	DL8au	Temperature Sensor Controllers;Vo 2.88-3.08V,Linearity 2% max,Ref Volt 6.55-7.25V
55 #	AM6301DC	21	07	Z2108	DL24r	250kHz Aosc Freq.;Vs 30VA;Is 12mA;Switching Power Supply Controller
56 #	AM6301DL	21	28	Z2108	DL24r	250kHz Aosc Freq.;Vs 30VA;Is 12mA;Switching Power Supply Controller
57 #	AM6301PC	21	07	Z2108	DL24s	250kHz Aosc Freq.;Vs 30VA;Is 12mA;Switching Power Supply Controller
58 #	LAS3820	21	5C	Z2109	DL16j	Monolithic IC Switching Regulator;Source/Sink Current 200mA;Vin 20V
59 #	LAS3820P	21	07	Z2109	DL16j	Monolithic IC Switching Regulator;Source/Sink Current 200mA;Vin 20V
60 #	LAS3840	21	5C	Z2109	DL16j	Monolithic IC Switching Regulator;Source/Sink Current 200mA;Vin 40V
61 #	LAS3840P	21	07	Z2109	DL16j	Monolithic IC Switching Regulator;Source/Sink Current 200mA;Vin 40V
62 #	LAS6300	21	2C	Z2101	TO3	Switching Regulator;Soft Start-No Glitches No Overshoot;5 Amp;Fixed
63	LAS6300(LA)	21	2C	Z2104	TO96	Switching Regulator;Soft Start-No Glitches No Overshoot;5-35V Operation
64 #	LAS6301	21	2C	Z2102	TO3	Switching Regulator;Soft Start-No Glitches No Overshoot;5 Amp;Adj
65 #	LAS6302	21	2C	Z2103	TO3	Switching Regulator;Soft Start-No Glitches No Overshoot;5 Amp;Adj
66 #	LAS6330	21	2C	Z2101	TO3	Switching Regulator;Soft Start-No Glitches No Overshoot;5-35V Input;3 and 5A Switch Cur
67 #	LAS6331	21	2C	Z2102	TO3	Switching Regulator;Soft Start-No Glitches No Overshoot;5-35V Inputs;3 and 5A Switch Cur
68 #	LAS6332	21	2C	Z2103	TO3	Switching Regulator;Soft Start-No Glitches No Overshoot;5-35V Input;3 and 5A Switch Cur
69	NE5560D	21	07	Z8235	DL16j	Control Ckt;Switched Mode Pwr Supply;Vcc 12V;Vref 3.72Vt;fo 50-100kHz;Acc 5%†
70 #	NE5560F	21	07	Z8235	DL16bb	CONTROL CIRCUIT;Switched Mode Power Supply;Vcc 12V;Vref 3.72Vt;fo 50Hz to 100kHz;Acc 5%†
71 #	NE5560N	21	07	Z8235	DL16p	CONTROL CIRCUIT;Switched Mode Power Supply;Vcc 12V;Vref 3.72Vt;fo 50Hz to 100kHz;Acc 5%†
72	NE5561D	21	07	Z8245	MD8a	Control Ckt;Switched Mode Pwr Supply;Vcc 18V;Vref 3.75Vt;fo 50-100kHz;Acc 12%†
73	NE5561FE	21	07	Z8245	DL8aw	Control Ckt;Switched Mode Pwr Supply;Vcc 18V;Vref 3.75Vt;fo 50-100kHz;Acc 12%†
74	NE5561N	21	07	Z8245	DL8bm	Control Ckt;Switched Mode Pwr Supply;Vcc 18V;Vref 3.75Vt;fo 50-100kHz;Acc 12%†
75 #	SE5560F	21	5C	Z8235	DL16bb	CONTROL CIRCUIT;Switched Mode Power Supply;Vcc 12V;Vref 3.72Vt;fo 50Hz to 100kHz;Acc 5%†
76 #	SE5560N	21	5C	Z8235	DL16p	CONTROL CIRCUIT;Switched Mode Power Supply;Vcc 12V;Vref 3.72Vt;fo 50Hz to 100kHz;Acc 5%†
77	SE5561FE	21	5C	Z8245	DL8aw	Control Ckt;Switched Mode Pwr Supply;Vcc 18V;Vref 3.75Vt;fo 50-100kHz;Acc 12%†
78	SE5561N	21	5C	Z8245	DL8bm	Control Ckt;Switched Mode Pwr Supply;Vcc 18V;Vref 3.75Vt;fo 50-100kHz;Acc 12%†
79	TDA1060N	21	28	Z5972	DL16p	Switched Mode Power Supply Control Unit;Vs 12Vt;Icc 30uAΔ
80 #	TDA4600-2	21	07	Z6234	MT60	Control IC for Switch Mode Power Supplies;Vs 7.8-15V
81 #	TDA4600-2D	21	07	Z6234	DL18p	Control IC for Switch Mode Power Supplies;Vs 7.8-15V;Pkg pins 6 and 10-18 conn to ground
82 #	TDA4700	21	28	Z2110	DL24u	IC for Single Ended and Push-Pull Switched-Mode Power Supplies;Vs 10.5 to 30V
83 #	TDA4700A	21	07	Z2110	DL24t	IC for Single Ended and Push-Pull Switched-Mode Power Supplies;Vs 10.5 to 30V
84 #	TDA4714A	21	07	Z2113	TO116	IC for Switched-Mode Power Supplies;Iref 10mA typ;Vs 10.5 to 30V;Is 8 to 16mA
85 #	TDA4714B	21	28	Z2113	TO116	IC for Switched-Mode Power Supplies;Iref 10mA typ;Vs 11 to 30V;Is 8 to 20mA
86 #	TDA4716A	21	07	Z2112	DL16ap	Control IC for Switched-Mode Power Supplies;Vs 10.5 to 30V;Is 8 to 16mA
87 #	TDA4716B	21	28	Z2112	DL16ap	Control IC for Switched-Mode Power Supplies;Vs 11 to 30V;Is 8 to 20mA
88 #	TDA4718	21	28	Z2111	DL18p	IC for Single Ended and Push-Pull Switched Mode Power Supplies;Vs 10.5 to 30V
89 #	TDA4718A	21	07	Z2111	DL18q	IC for Single Ended and Push-Pull Switched-Mode Power Supplies;Vs 10.5 to 30V
90 #	TEA1024(A)	21	4C	Z2107	DL8v	Zero Voltage Switch for triac control
91 #	U263B1(A)	21	4C	Z2106	DL8v	Zero Voltage Switch
92 #	U263B2(A)	21	4C	Z2106	DL8v	Zero Voltage Switch
93 #	UAA4002DP(A)	21	4F	Z2114	DL16cs	Control Circuit for Fast Switching Transistor;Max Supply Voltage -10V and 15V
94 #	UAA4006DP(A)	21	4F	Z2115	DL16cs	Regulator for Switch Mode Power Supply;Self-Regulated Positive Base Current-peak 1.5A
95 #	UAA4006SP(A)	21	4F	Z2115	MT63	Regulator for Switch Mode Power Supply;Self-Regulated Positive Base Current-peak 1.5A
96	ULN8126A	21	07	Z6245	DL8c	Control Ckt;Switch Mode Pwr Supply;Vs 40V;Fosc 400kHz min
97	ULN8126R	21	07	Z6245	DL8c	Control Ckt;Switch Mode Pwr Supply;Vs 40V;Fosc 400kHz min
98	ULN8160A	21	07	Z6235	DL16p	Control Ckt;Switch Mode Pwr Supply;Vs 18V;Fo 50-100kHz
99	ULN8160R	21	07	Z6235	DL16bb	Control Ckt;Switch Mode Pwr Supply;Vs 18V;Fo 50-100kHz
100	ULQ8126A	21	48	Z6245	DL8c	Control Ckt;Switch Mode Pwr Supply;Vs 40V;Fosc 400kHz min
101	ULQ8126R	21	48	Z6245	DL8c	Control Ckt;Switch Mode Pwr Supply;Vs 40V;Fosc 400kHz min
102	ULS8126R	21	5C	Z6245	DL8c	Control Ckt;Switch Mode Pwr Supply;Vs 40V;Fosc 400kHz min
103	ULS8160R	21	5C	Z6235	DL16bb	Control Ckt;Switch Mode Pwr Supply;Vs 18V;Fo 50-100kHz
104	ULX8161M(A)	21	07	Z6245	DL8c	Control Ckt;Switch Mode Pwr Supply;Vs 18V;Fo 50-100kHz
105	MC3425AP1	22	07	Z6424	DL8ac	Over-Under-Volt Protect;Over-Volt Out Drive 300mA;Under 30mA
106	MC3425AU	22	07	Z6424	DL8s	Over-Under-Volt Protect;Over-Volt Out Drive 300mA;Under 30mA
107	MC3425P1	22	07	Z6424	DL8ac	Over-Under-Volt Protect;Over-Volt Out Drive 300mA;Under 30mA
108	MC3425U	22	07	Z6424	DL8s	Over-Under-Volt Protect;Over-Volt Out Drive 300mA;Under 30mA
109	MC3523U	22	5C	Z6408	DL8s	Overvoltage Protector Used W/Ext Crowba SCR;Sense Voltage 6.5VΔ;Io 300mA
110	MC3525AU	22	5C	Z6424	DL8s	Over-Under-Volt Protect;Over-Volt Out Drive 300mA;Under 30mA

100
TTC

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	USE	T O C E O D M P E	DRAWINGS		GENERAL DESCRIPTION
				CKT.	OUT- LINE Δ=MO	
1	MC3525U	22	5C	26424	DL8s	Over-Under-Volt Protect;Over-Volt Out Drive 300mA;Under 30mA
2	MIOV42092-056	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
3	MIOV42092-066	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
4	MIOV42092-076	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
5	MIOV42092-086	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
6	MIOV42092-096	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
7	MIOV42092-106	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
8	MIOV42092-126	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
9	MIOV42092-146	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
10	MIOV42092-166	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
11	MIOV42092-186	22	4E		CN43	Overvolt protector;Volt protection up to 35V;On state current to 15A
12	MIOV42092-206	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
13	MIOV42092-510	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
14	MIOV42092-515	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
15	MIOV42092-610	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
16	MIOV42092-615	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
17	MIOV42092-710	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
18	MIOV42092-715	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
19	MIOV42092-810	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
20	MIOV42092-815	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
21	MIOV42092-910	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
22	MIOV42092-915	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
23	MIOV42092-1010	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
24	MIOV42092-1015	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
25	MIOV42092-1210	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
26	MIOV42092-1215	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
27	MIOV42092-1410	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
28	MIOV42092-1415	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
29	MIOV42092-1610	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
30	MIOV42092-1615	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
31	MIOV42092-1810	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
32	MIOV42092-1815	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
33	MIOV42092-2010	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
34	MIOV42092-2015	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 15A
35	MIOV42093-0520	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
36	MIOV42093-0525	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
37	MIOV42093-0530	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
38	MIOV42093-0535	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
39	MIOV42093-0620	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
40	MIOV42093-0625	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
41	MIOV42093-0630	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
42	MIOV42093-0635	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
43	MIOV42093-0720	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
44	MIOV42093-0725	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
45	MIOV42093-0730	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
46	MIOV42093-0735	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
47	MIOV42093-0820	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
48	MIOV42093-0825	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
49	MIOV42093-0830	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
50	MIOV42093-0835	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
51	MIOV42093-0925	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
52	MIOV42093-0930	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
53	MIOV42093-0935	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
54	MIOV42093-1020	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
55	MIOV42093-1025	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
56	MIOV42093-1030	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
57	MIOV42093-1035	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
58	MIOV42093-1220	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
59	MIOV42093-1225	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
60	MIOV42093-1230	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
61	MIOV42093-1235	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
62	MIOV42093-1420	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
63	MIOV42093-1425	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
64	MIOV42093-1430	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
65	MIOV42093-1435	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
66	MIOV42093-1620	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
67	MIOV42093-1625	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
68	MIOV42093-1630	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
69	MIOV42093-1635	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
70	MIOV42093-1820	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
71	MIOV42093-1825	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
72	MIOV42093-1830	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
73	MIOV42093-1835	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
74	MIOV42093-2020	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
75	MIOV42093-2025	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
76	MIOV42093-2030	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35V
77	MIOV42093-2035	22	4E		CN48	Overvolt protector;Volt protection up to 35V;On state current to 35A
78	CS2000	54	5C	Z7905		200 Active;Passive Comps on Processed,Uncommitted Mono Substrate for Breadboard Models
79	CH1213	56	07	Z5607	DL16bc	Dual Channel FSK Demodulator 1170/2125Hz
80	CH1214	56	07	Z5606	DL16bc	FSK Modulator 1170/2125 Hz
81	CH1215	56	07	Z5607	DL16bc	Dual Channel FSK Demodulator 1080/1750Hz
82	CH1216	56	07	Z5606	DL16bc	Programmable FSK Modulator 10-10kHz
83	MC6172L	56	07	Z5608	DL24n	Digital Modulator;511-Bit CCITT Test Pattern;1200/2400bps Operation
84	MC6172P	56	07	Z5608	DL24o	Digital Modulator;511-Bit CCITT Test Pattern;1200/2400bps Operation
85	MC6862CL	56	48	Z5608	DL24n	Digital Modulator;511-Bit CCITT Test Pattern;1200/2400bps Operation
86	MC6862CP	56	48	Z5608	DL24o	Digital Modulator;511-Bit CCITT Test Pattern;1200/2400bps Operation
87	MC6862CS	56	48	Z5608	DL24p	Digital Modulator;511-Bit CCITT Test Pattern;1200/2400bps Operation
88	MC6862S	56	48	Z5608	DL24p	Digital Modulator;511-Bit CCITT Test Pattern;1200/2400bps Operation
89	SG1524BJ	56	5C	Z5605	TO116	Regulating Pulse width Modulator;Vs 7-40V Operation
90	SG2524BJ	56	28	Z5605	TO116	Regulating Pulse width Modulator;Vs 7-40V Operation
91	SG3524BJ	56	07	Z5605	TO116	Regulating Pulse width Modulator;Vs 7-40V Operations
92	SG3524BN	56	07	Z5605	TO116	Regulating Pulse width Modulator;Vs 7-40V Operation
93#	SL1001A	56	2C	Z5609	CN10e	Modulator/Demodulator;Bi-polar Monolithic;Vs -15V
94	uA726HC	58	08	Z5801	TO100	VCBO 40V;VCEO 30V;VEBO 5.0V;IC 5.0mA;Volt Drift 2.0uV/°C;Off Volt 3.0V
95	uA726HM	58	5C	Z5801	TO100	VCBO 40V;VCEO 30V;VEBO 5.0V;IC 5.0mA;Volt Drift 1.0uV/°C;Off Volt 2.5mV
96	3010	59	28	Z5940	DL14aj	Tone Alarm;VS 4.5V-18V;Vi 5.0VΔ;Io 50mAΔ;Pulsating Outp. 100mAΔ
97	3030	59	2A	Z5941	DL14aj	Temperature Alarm;VS 4.5V-18V;Is 8.0mAΔ;Io 10mAΔ;Temp. Ref. Acc. ±3.0°C
98	AD594AD	59	5C	Z59DA	DL14db	Mono Thermocouple Amp w/Cold Junction Compensation;Vs 36V
99	AD594CD	59	5C	Z59DA	DL14db	Mono Thermocouple Amp w/Cold Junction Compensation;Vs 36V
100#	AN605	59	16	Z5938	TO116	VTR Automatic Tape Loading Circuit;Vs 9-12V;5 X Schmidt trigger;1DC Amp.
101#	AN6811	59	27	Z59BC		3,4,8,12,16, Frequency Divider;Vcc 15V,Icc 30mA,Pd 350mW
102#	AN6820	59	27	Z59BD		1/20 Frequency Divider;Vcc 7V,Pd 140mW
103#	AN6821	59	27	Z59BD		1/20 Frequency Divider;Vcc 7V,Pd 140mW
104#	AN6875	59	27	Z59BE		LED Driver Circuit;Vcc 0.5V,Icc 18mA,Pd 550mW
105	CA3050S	59	5C	B038	DL14a	2 Darlingtion diff amp with diode bias string;Pd 900mW;VBE 800mV;Ic 50mA;ft 600MHz
106	CA3051S	59	28	B038	TO116	2 Darlingtion diff amp with diode bias string;Pd 750mW;VBE 800mV;Ic 50mA;ft 600MHz
107	CA3098T	59	5C	Z5905	Δ002AL	Prog Schmitt Trigger;Vs 16V or ±8V;Vos 6.0mVΔ Low Ref,10mVΔ High Ref;Vi Diff 10VΔ
108	CA3164E	59	05	Z59W	Δ001AB	BiMOS Smoke Detector Circuit;Vs 9.0V;Pd 600mWΔ
99#	CA3165E1	59	48	Z59DA	MO001b	Electronic Switching Ckt;Vcc 24V;Ic 120mA
99#	CA3165E	59	48	Z59DB	DL8ad	Electronic Switching Ckt;Vcc 24V;Ic 120mA

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	U S E	T O D E	C O D E	DRAWINGS CKT.	OUT- LINE Δ=MO	GENERAL DESCRIPTION
1	CS188	59			Z7904		Battery Monitor for use in Critical Batt Power Medical;Security;Environmental Systems
2	DCI177	59	58			CN89	DC TO DC Signal Isolator;Vi -10 to plus 10V;Linearity ± 1.0%;Rpl. less than 1.0%.
3	DCI178	59	58			CN89	DC TO DC Signal Isolator;Vi -50 to plus 50mV;Linearity ± .10%;Rpl. less than .50%.
4#	ESM707	59	07			DL8a	Tachy meter;Io max 60mA;Ptot 500mW.
5#	GAP01AX/883(M)	59	5C		Z59DD	DL18#	Analog Signal Processing Subsystem;Vos 3mV;Wide BW 400kHz;Zero-Scale Error 4mV;1mV/ms Dro
6#	GAP01BX/883(M)	59	5C		Z59DD	DL18#	Analog Signal Processing Subsystem;Vos 3mV;Wide BW 400kHz;Zero-Scale Error 4mV;1mV/ms Dro
7	GAP01BX#mil	59	5C			DL18#	Analog signal processing subsystem.
8#	GAP01EP	59	07		Z59DD	DL18#	Analog Signal Processing Subsystem;Vos 3mV;Wide BW 400kHz;Zero-Scale Error 4mV;1mV/ms Droop
9#	GAP01EP/883(M)	59	07		Z59DD	DL18#	Analog Signal Processing Subsystem;Vos 3mV;Wide BW 400kHz;Zero-Scale Error 4mV;1mV/ms Droop
10#	GAP01EX	59	28		Z59DD	DL18#	Analog Signal Processing Subsystem;Vos 3mV;Wide BW 400kHz;Zero-Scale Error 4mV;1mV/ms Dro
11#	GAP01EX/883(M)	59	28		Z59DD	DL18#	Analog Signal Processing Subsystem;Vos 3mV;Wide BW 400kHz;Zero-Scale Error 4mV;1mV/ms Dro
12	GAP01FP	59	07			DL18#	Analog signal processing subsystem.
13#	GAP01FP/883(M)	59	07		Z59DD	DL18#	Analog Signal Processing Subsystem;Vos 3mV;Wide BW 400kHz;Zero-Scale Error 4mV;1mV/ms Droop
14	GAP01FX	59	28			DL18#	Analog signal processing subsystem.
15#	GAP01FX/883(M)	59	28		Z59DD	DL18#	Analog Signal Processing Subsystem;Vos 3mV;Wide BW 400kHz;Zero-Scale Error 4mV;1mV/ms Dro
16#	L290	59	07			DL16ap	Tachometer Converter;Integrates Tach Volt Gen/Ref Volt Gen/Position Pulse Gen
17#	L290B	59	07		Z59BV	DL16ap	Tachometer converter;Tacho Volt;ref volt and position pulse generators
18#	L291	59	07			DL16ap	D/A Converter/Position Amplifier;Integrates 5 Bit D/A Error Amp;2nd Position Amp
19#	L291B	59	07		Z59BU	DL16ap	D/A CONVERTER AND POSITION AMPLIFIER;5 Bit D/A Conv;Error Amp;Position Amp;Vs ±15VΔ
20#	LC7500	59	37			DL16#	ELECTRONIC ATTENUATION CONTROLLER;5 Bit Up Down Counter;VDD 9.0V;Vret 8.0V
21#	LM566CN	59	07		Z5936	DL8a	Voltage Controlled Oscillator;Max Oper Freq 1.0MHz;VS 26V.
22	LM1524J	59	5C		Z5919	DL16k	Regulating Pulse Width Generator;Vin 20V;Vo 5V;Freq 350kHz;Error Amp Gain 72dB*
23	LM2524J	59	07		Z5919	DL16k	Regulating Pulse Width Generator;Vin 20V;Vo 5V;Freq 350kHz;Error Amp Gain 72dB*
24	LM2524N	59	07		Z5919	DL16ai	Regulating Pulse Width Generator;Vin 20V;Vo 5V;Freq 350kHz;Error Amp Gain 72dB*
25	LM3524J	59	07		Z5919	DL16k	Regulating Pulse Width Generator;Vin 20V;Vo 5V;Freq 350kHz;Error Amp Gain 60dB*
26	LM3524N	59	07		Z5919	DL16ai	Regulating Pulse Width Generator;Vin 20V;Vo 5V;Freq 350kHz;Error Amp Gain 60dB*
27	LM3911N	59	28		Z5974	DL8a	Temperature Controller;Sensor Voltage Ref;Op Amp;VS 10mAΔ;Collector Vo 36VΔ
28#	M5174P	59	17			DL14c	Flame Detector;ΔVs 12-24V;Io 20mA*
29#	M51660L	59	17			DL14c	Servo Motor Position Control;Vcc Max 7.5V;Pd Max 550mW
30#	M51742AP	59	17			DL14c	Sequential Controller for Flame Detector;Vcc Max 20V;Pd Max 900mW
31#	M51841P	59	27		Z5954	DL8am	CR Timer;VS 4.5V-16V;Io 200mA.
32#	M51843P	59	27		Z5955	DL14c	CR Timer (Zener Diode,Initial Trigger Circuit);VS 4.5V-24V;Io 200mA.
33#	M51847P	59	17			DL14c	Dual CR Timer;Max Operating Freq 1kHz;Min Io(Peak)100mA
34#	M51848P	59	17			DL8am	CR Timer;Max Operating Freq 1kHz;Min Io(Peak)200mA
35#	M51901P	59	17		Z5962	DL16aw	LED Controller For Display Of 23 Modes
36#	M51910P	59	17		Z59P	DL22b	Input 9 Dots LED Driver;Vcc max 18V;Pd max 1.4W
37#	MB3756M	59	27		Z59cp	MT48	3 Output Voltage Regulator;Vin 11-16V, Vo 8.2V, Io 200mA Max 350mA
38#	MC33063P1	59	48		Z59DC	DL8bu	DC/DC Converter Control Ckt;2.5-40V Input;1.25-40V Output Voltage Adjustable
39#	MC33063U	59	48		Z59DC	DL8bt	DC/DC Converter Control Ckt;2.5-40V Input;1.25-40V Output Voltage Adjustable
40#	MC34063P1	59	07		Z59DC	DL8bu	DC/DC Converter Control Ckt;2.5-40V Input;1.25-40V Output Voltage Adjustable
41#	MC34063U	59	07		Z59DC	DL8bt	DC/DC Converter Control Ckt;2.5-40V Input;1.25-40V Output Voltage Adjustable
42#	MC35063U	59	5C		Z59DC	DL8bt	DC/DC Converter Control Ckt;2.5-40V Input;1.25-40V Output Voltage Adjustable
43	ML8204AE	59	46		Z5918	DL8ah	Tone Ring;Vs 30VA;Is 4.2mAΔ;Vi 120Vrms;lin 11mArms;Vo 21VΔ;Tone Out;Mod 576Hz;Po 40mW†
44	ML8205AE	59	46		Z5918	DL8ah	Tone Ring;Vs 80Vrms;Fin 20Hz;lin (Ringing) 8.0mArms;Pout 40mW;Fout (10)10Hz
45#	S175A	59	06		Z59BJ	DL16aa	Triple Analog Memory;Ref Oscillator w/Dividers;3-6Bit Up/Down/Following D/A Conv
46#	SAK1060	59	28			DL24i	LED Display/Interface Ckt;Supply Volt Range 4-6V;Max Input Freq 50kHz;Supply I 60mA
47#	SAK110	59	07			DL8a	Pulse Shaper for Rev-Counters;VCC max 9V;Io max 20mA;f max 10kHz.
48#	SAK115	59	07			MT49	Pulse Shaper for Rev-Counters;VCC max 9V;Io max 20mA;f max 10kHz.
49#	SAK135	59	07			DL8a	Pulse Shaper for Rev-Counters;VCC max 9V;Io max 20mA;f max 10kHz.
50	SG290N	59	07		Z5916	DL16#	Tachometer Converter;Tach Volt Gen/Vref Gen/Position Pulse Gen
51#	SL1021A	59	2C		Z5951	CN27b	Channel Amp;VS -20V;IS 11mAΔ;Overload 13dBm;BW 100kHz;Gain 26dB;Ro 600Ω.
52#	SSH104	59	0B		Z59DE	FP2	Bipolar IC for Disk Drive Control;Controls 4 Heads;Read Write and Idle modes of operation
53#	SSH105B	59	0B		Z59DE	FP2	Similar to SSH104;Intended for use with higher inductance and higher output heads
54#	SSH108	59	0B		Z59DF	DL24#	Bipolar Disk Drive Control IC;Controls 4 heads;Read/Write/Idle modes oper;Vcc 7V;Vee -5.5V
55#	TAA320Z	59	2E			TO18	Integrated MOST Amplifier;For Audio Amps w/High Input Resist;VDS max 20V;Io Max 25mA
56#	TAA320AZ	59	2E			TO18	Integrated MOST Level Sensor;For Very High Input Resist;VDS max 20V;Io Max 60mA
57#	TCA965K	59	28		Z59J	FP68	Window Discriminator;Vs 10V;Is 7.0mAΔ;Vref (no load) 3.0V;Irr 10uA;Output Sat Volt .2V
58#	TDA1060A	59	28		Z5972	DL16ap	Pulse Modulator w/Internal Sawtooth Gen 50Hz-100kHz;Output Pulse 5.0V,40mA min
59#	TDC0555	59				TO99	MON Timing Ckts 200mA;Adj Duty Cycle Stability .005%/°C.
60	TL496CJG	59	07		Z5927	DL8v	9 Volt Power Supply Controller;Vi 20VΔ;Reg Vdo 2.0VΔ;Diode VF 2.5V;Sw Vce(Sat)600mVΔ
61	TL496CP	59	07		Z5927	DL8p	9 Volt Power Supply Controller;Vi 20VΔ;Reg Vdo 2.0VΔ;Diode VF 2.5V;Sw Vce(Sat)600mVΔ
62#	u401B	59	07				Comparator;Broadband;Reduces Noise During Recording/Playback in Cassette Recorders
63#	ULN2430M	59	48		Z59AD	DL8c	Timer;Provides Delays from Several ms to Approximately 10 min;40mA Output;T-Compensated
64	XR567CN	59	07		Z5944	DL8r	Tone Decoder;VCC 5.0V;Freq .01Hz-500kHz;BW 0-14%;TTL 100mA Sink Output;Ceramic Pkg
65	XR567CP	59	07		Z5950	DL16ao	Tone Decoder;VCC 5.0V;Freq .01Hz-500kHz;BW 0-14%;TTL 100mA Sink Output;Plastic Pkg
66	XR567M	59	5C		Z5944	DL8r	Tone Decoder;VCC 5.0V;Freq .01Hz-500kHz;BW 0-14%;TTL 100mA Sink Output;Ceramic Pkg
67	XR2276CP	59	07		Z7022		12-Point Level-Detector/Indicator for Interface w/Flourescent Displays
68	XR2567CN	59	07		Z5950	DL16ao	Dual Tone Decoder Consisting of 2 Type 567;Freq Match 1.0% Typ at 10kHz;Ceramic Pkg
69	XR2567CP	59	07		Z5950	DL14bg	Dual Tone Decoder;0.1Hz To 500kHz;Vs 5V;Is 30mAmax;Center Freq Matching 1% Typ at 10kHz
70	XR2567M	59	07		Z5950	DL16ao	Dual Tone Decoder Consisting of 2 Type 567;Freq Match 1.0% Typ at 10kHz;Plastic Pkg
71	XR2567CP	59	07		Z5950	DL14bj	Dual Tone Decoder;0.1Hz To 500kHz;Vs 5V;Is 30mAmax;Center Freq Matching 1% Typ at 10kHz
72	XR2567M	59	5C		Z5950	DL16ao	Dual Tone Decoder Consisting of 2 Type 567;Freq Match 1.0% Typ at 10kHz;Ceramic Pkg
73	XR2567M	59	5C		Z5950	DL14bg	Dual Tone Decoder;0.1Hz To 500kHz;Vs 5V;Is 26mAmax;Center Freq Matching 1% Typ at 10kHz
74#	ZN1060E(A)	59	28		Z5972	DL16cu	Switching Regulator Control Ckt;Vec 5v
75#	AN6880	62	16		Z6233		Servo Motor Control Circuit; Vcc 6.5V, Pd 600mW
76	CA3058	62	5C		Z6201	Δ001AD	0 Volt Switch for 50 to 400Hz Thyristor Control;IGT 105mA;Io Leakage 20uA
77	CA3059	62	48		Z6201	Δ001AB	0 Volt Switch for 50 to 400Hz Thyristor Control;IGT 105mA;Io Leakage 10uA max.
78	CA3059H	62	48		Z6201	CH16n	0 Volt;Switch for 50 to 400Hz Thyristor Control;IGT 105mA;Io Leakage 10uA max.
79	CA3079	62	48		Z6202	Δ001AB	0 Volt Switch for 50 to 400Hz Thyristor Control;IGT 105mA;Io Leakage 10uA.
80#	L120AB	62	2A		Z6208	DL16ap	TRIAC/SCR PHASE CONTROL;AC Supply 50/60Hz;Zero Voltage/Current Detection;Ramp Generation
81#	M51401K	62	27		Z6214	DL16cd	Servo Controller for VTR;VS 12V;Output Range 500m to 10V;Ripple 80mVp-p.
82	MC3370P	62	17		Z6206	DL8ac	Zero Voltage Switch;Input Current I1/2 15uAΔ;ISC 100uAΔ;Pd 1.2WΔ
83	NE543K	62	27		Z6204	TO100	Servo Amplifier and Pulse Width Demod W/Motor Drive;Vs 4.8V;Input Bias 50uAΔ;Io 280mA†
84	NE544D	62	27		Z6205		Servo Amplifier/Pulse Width Demod w/Motor Drive;Vs 4.8V;Vth 1.5Von,1.4Voff;Pd 26mW
85	NE544N	62	27		Z6205	DL14aw	Servo Amplifier and Pulse Width Demod W/Motor Drive;Vs 4.8V;Vth 1.5Von,1.4Voff;Pd 26mW
86	NE644N	62	27		Z6205	DL16p	Servo Amplifier and Pulse Width Demod W/Motor Drive;Vs 4.8V;Vth 1.5Von,1.4Voff;Pd 26mW
87	NE644W	62	27		Z6205	FP28	Servo Amplifier and Pulse Width Demod W/Motor Drive;Vs 4.8V;Vth 1.5Von,1.4Voff;Pd 26mW
88#	SL441A	62	17		Z6236	DL8ax	Zero Volt Switch;Volt on Pin 8 12V/Pin 4 10V max;Peak Amplitude Ramp 420mV
89#	SL441C	62	17		Z6236	DL8ax	Zero Volt Switch;Volt on Pin 8 12V/Pin 4 10V max;Peak Amplitude Ramp 100mV
90#	SL443A	62	17		Z6237	DL8ax	Zero Volt Switch;Volt on Pin 8 10V/Pin 4 10V max;Is 50mA max
91#	SL445A	62	17		Z6238	DL16ab	Zero Volt Switch;Triac Control;Control Switch Rate;LED;Drive Circuit
92#	SL446A	62	17		Z6237	DL8ax	Zero Volt Switch for Use in ON/OFF Control of Triacs
93#	TCA280A	62	28		Z6210	DL16af	Triggering Stage For Controlling Thyristors And Triacs;VS 17VΔ;Firing Cur 3.0uAΔ.
94#	TCA780	62	07		Z6239	DL16ae	Phase Control Circuit for Thyristors, Triacs, Transistors;Zero Voltage Switch
95#	TCA780D	62	07		Z6239	DL16ae	Control Thyristor, Triac/Transistor;Zero Volt Switch
96#	TDA1023	62	28		X118	DL16az	0 Volt Switch for Thyristor;Vs 12 To 15V;Is 6mAmax;Output Trig 10Vmin,200mAmin,100uSmin
97#	TDA1024	62	28		Z6225	DL8ai	0 Volt Switch For Thyristor And Triac Control;Vs 8.0VΔ;Is 80mAΔ;Io 400mAΔ;Tp 195us
98	TDA1024N	62	28		Z6225	DL8ao	Zero Crossing On-Off Triac Control;Vs 8.0VΔ;Icc 3.0mA;Trigger Vp 4.0V;Trigger Io 100mA
99#	TEA1007	62	08				CONTROL;Phase Control of AC Loads;Ignition Pulse 150mA(Typ);Input I 5mA;Out I 230mA
100	TEA1510DP(A)	62	07		Z6247	DL8br	Zero Switch;Long Cycle Proportional Power Control
101	TL376CNE	62	07			DL14bw	Stepper Motor Control;Three Channel;Out Source Curr/Sink Curr 500mA Type;Supp Volt 4-18V
102	TL440CJ	62	07		Z6223	DL14ah	Zero Voltage Switch;Voltage At Sensor Or Vref Input 6.0V Typ;Output Pulse Width 400uSΔ
103	TL440CN	62	07		Z6223	DL14bw	Zero Voltage Switch;Voltage At Sensor Or Vref Input 6.0V Typ;Output Pulse Width 400uSΔ
104#	TLB3101	62	07		Z6249	DL18q	Bipolar Phase Control IC;Vs 10V lower 30V upper;Input Sync 3.5mA max;Cur Consumption 2.4mA
105#	TLB3102	62	07		Z6250	TO116	Bipolar Phase Control IC;Vs 10V lower 30V upper;Input Sync 3.5mA max;Cur Consumption 2.4mA
106#	TLB3103	62	07		Z6251	TO116	Bipolar Phase Control IC;Vs 10V lower 30V upper;Input Sync 3.5mA max;Cur Consumption 2.4mA
107#	TLB3104	62	07		Z6252	DL8bw	Bipolar Phase Control IC;Vs 10V lower 30V upper;Input Sync 3.5mA max;Cur Consumption 2.4mA
108#	TLE3101	62	28		Z6249	DL18q	Bipolar Phase Control IC;Vs 10V lower 30V upper;Input Sync 3.5mA max;Cur Consumption 2.4mA
109#	TLE3102	62	28		Z6250	TO116	Bipolar Phase Control IC;Vs 10V lower 30V upper;Input Sync 3.5mA max;Cur Consumption 2.4mA
110#	TLE3103	62	28		Z6251	TO116	Bipolar Phase Control IC;Vs 10V lower 30V upper;Input Sync 3.5mA max;Cur Consumption 2.4mA

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	U	T	C	DRAWINGS		GENERAL DESCRIPTION
					CKT.	OUT-LINE Δ=MO	
1#	TL3104	62	28	Z6252	DL8bw		Bipolar Phase Control IC;Vs 10V lower 30V upper;input Sync 3.5mA max;CurConsumption 2.4mA
2#	u106BS	62	07				CONTROL:Zero Volt Switch;Thyristor/Triac Control for Static Switch;Burst Firing
3#	u111B	62	08				CONTROL:Phase Control of AC Loads;Ignition Pulse 150mA(Typ);Consumption 2.5mA
4#	u112BA	62	08	Z6212	DL16x		CONTROL:Two-Wire Touch Switch W/Adjustable Phase Control for Ohmic/Inductive Loads
5#	U106B	62	07	Z6242	DL001AC		0 Volt Switch For Thyristor and Triac Control;Vs 9.5VΔ;Pd 530mWΔ;Vo 5.0VΔ;Vos 10mV.
6#	U106BS	62	07	Z6242	DL001AA		Zero Voltage Switch;Pt 530mW abs max;Vs 8.2V max;Is 22mA max;Isvn 400uA min;tp 200us typ
7#	U111B	62	08	Z6240	DL10b		Phase Cont of AC Loads;-Vs 17V max;Is 25mA max;Pd 1.5W max;Ignition Pulse 150mA typ
8#	U112BA	62	08	Z6215			Triac Control Ckt w/Touch Switch;Pt 225mW abs max;Vs 21V typ;Is 200u max
9#	U217B	62	09				Control:Zero volt switch;Triac control for static switch;Burst firing;1/3 Phase Pwr Supp
10#	UAA145	62	27	Z6241	MT53		Phase Cont IC;Vs 18V abs MAX;Is 30mA max, Pt 550mW Max;tr 0.5us max;Phase Angle 0°-180°
11#	UAA146	62	07				Control;Phase Control Integrated Ckt;Phase angle variable from 0° - 180°;Out PW adjustable
12	UAA1004CM	62	5C	Z6244	TO99		Zero Volt Switch use in High Volume AC Power Switching;Vcc 20V
13	UAA1004DP	62	27	Z6244	DL8v		Zero Volt Switch use in High Volume AC Power Switching;Vcc 20V
14	AD581JH	63	07	Z6315	CN38a		Vi 40V;Pd 600mW;Vo Tolerance ±30V max;Line Reg 3.0mV max;Load Reg 500uV/mA max
15	AD581KH	63	07	Z6315	CN38a		Vi 40V;Pd 600mW;Vo Tolerance ±10V max;Line Reg 3.0mV max;Load Reg 500uV/mA max
16	AD581LH	63	07	Z6315	CN38a		Vi 40V;Pd 600mW;Vo Tolerance ±5V max;Line Reg 3.0mV max;Load Reg 500uV/mA max
17	AD581SH/883B(M)	63	5C	Z6315	TO5		Vi 40V;Pd 600mW;Vo Tolerance ±0.3% max;Line Reg 3.0mV max;Load Reg 500uV/mA max
18	AD581TH/883B(M)	63	5C	Z6315	TO5		Vi 40V;Pd 600mW;Vo Tolerance ±0.1% max;Line Reg 3.0mV max;Load Reg 500uV/mA max
19	AD581UH/883B(M)	63	5C	Z6315	TO5		Vi 40V;Pd 600mW;Vo Tolerance ±0.05% max;Line Reg 3.0mV max;Load Reg 500uV/mA max
20	AD584JH	63	07	Z6316	CN1d		4 Programmable Output Voltages;10,000V;7500V;5000V;2500V;Io 10mA*;No 50mV p-p
21	AD584KH	63	07	Z6316	CN1d		4 Programmable Output Voltages;10,000V;7500V;5000V;2500V;Io 10mA*;No 50mV p-p
22	AD584LH	63	07	Z6316	CN1d		4 Programmable Output Voltages;10,000V;7500V;5000V;2500V;Io 10mA*;No 50mV p-p
23	AD584SH/883B(M)	63	5C	Z6316	TO99		4 Programmable Output Voltages;10kV;7.5kV;5kV;2.5kV;Io 10mA*;No 50uV p-p
24	AD584TH/883B(M)	63	5C	Z6316	TO99		4 Programmable Output Voltages;10,000V;7500V;5000V;2500V;Io 10mA*;No 50mV p-p
25	AD584UH/883B(M)	63	5C	Z6313	TO99		4 Programmable Output Voltages;10kV;7.5kV;5kV;2.5kV;Io 10mA*;No 50uV p-p
26	AD2700JD	63	28	Z6314	DL14cy		Vo 10,000 ±0.05%;Io 10mA;Temp Stability 10ppm/°C;IC Reference
27	AD2700LD	63	28	Z6314	DL14cy		Precision ±10V Reference Source;Vs 15V;Max Error 0.1% 25°C;±0.3% to 85°C
28	AD2700SD/883B(M)	63	5C	Z6314	DL14cy		Precision ±10V Ref.;Io 10mA max;Vo ±10kV±0.05V;Temp Stability 3ppm/°C
29	AD2700UD/883B(M)	63	5C	Z6314	DL14cy		Precision ±10V Ref.;Io 10mA max;Vo ±10kV±0.025V;Temp Stability 3ppm/°C
30	AD2701JD	63	28	Z6314	DL14cy		Vo -10,000V ±0.05%;Io 10mA;Temp Stability 10ppm/°C;IC Reference
31	AD2701LD	63	28	Z6314	DL14cy		Precision-10V Reference Source;Vs 15V;Max Error 0.1% 25°C;±0.3% to 85°C
32	AD2701SD/883B(M)	63	5C	Z6314	DL14cy		Precision ±10V Ref.;Io 10mA max;Vo ±10kV±0.05V;Temp Stability 3ppm/°C
33	AD2701UD/883B(M)	63	5C	Z6314	DL14cy		Precision ±10V Ref.;Io 10mA max;Vo ±10kV±0.025V;Temp Stability 3ppm/°C
34	AD2702JD	63	28	Z6314	DL14cy		Vo ±10,000 ±0.05%;Io 10mA;Temp Stability 10ppm/°C;IC Reference
35	AD2702LD	63	28	Z6314	DL14cy		Precision ±10V Reference Source;Vs 15V;Max Error 0.1% 25°C;±0.3% to 85°C
36	AD2702UD/883B(M)	63	5C	Z6314	DL14cy		Precision ±10V Ref.;Io 10mA max;Vo ±10kV±0.05V;Temp Stability 3ppm/°C
37	AD2702SD/883B(M)	63	5C	Z6314	DL14cy		Precision ±10V Ref.;Io 10mA max;Vo ±10kV±0.025V;Temp Stability 3ppm/°C
38	AD2702UD/883B(M)	63	5C	Z6314	DL14cy		Precision ±10V Ref.;Io 10mA max;Vo ±10kV±0.025V;Temp Stability 3ppm/°C
39	ICL8069AC	63	07	Z6309	CN25c		Temp Compensated Voltage Ref;Vi 7V;Rev V 1.25VA;Breakdown V TC 0.01%/°CΔ
40	ICL8069BC	63	07	Z6309	CN25c		Temp Compensated Voltage Ref;Vi 7V;Rev V 1.25VA;Breakdown V TC 0.025%/°CΔ
41	ICL8069CC	63	07	Z6309	CN25c		Temp Compensated Voltage Ref;Vi 7V;Rev V 1.25VA;Breakdown V TC 0.05%/°CΔ
42	ICL8069CQ	63	5C	Z6309	CN25c		Temp Compensated Voltage Ref;Vi 7V;Rev V 1.25VA;Breakdown V TC 0.05%/°CΔ
43	ICL8069DC	63	07	Z6309	CN25c		Temp Compensated Voltage Ref;Vi 7V;Rev V 1.25VA;Breakdown V TC 0.1%/°CΔ
44	ICL8069DMQ	63	5C	Z6309	CN25c		Temp Compensated Voltage Ref;Vi 7V;Rev V 1.25VA;Breakdown V TC 0.1%/°CΔ
45	LM136AH	63	5C	Z6302	CN78		2.5V Reference Diode IREV 15mAΔ;IF 10mAΔ;VBR 2.515VA at IR 1mA;Rev Dyn Z1.0ΩΔ
46	LM136BH	63	5C	Z6302	CN78		2.5V Reference Diode IREV 15mAΔ;IF 10mAΔ;VBR 2.540VA at IR 1mA;Rev Dyn Z1.0ΩΔ
47	LM185H1.2	63	5C	Z6309	CN25		Voltage Regulator Diode;IR 30mAΔ;IF 10mAΔ;1.235V Ref;Rev Dyn Impedance 0.6 ohm max
48	LM185H2.5	63	5C	Z6309	CN25		Voltage Regulator Diode;IR 30mAΔ;IF 10mAΔ;2.5Vref;Rev Dyn Impedance 0.6 ohm max
49	LM199AH-20	63	5C	Z6310	CN64		Precision 6.95V Ref;Ir 20mAΔ;If 1.0mAΔ;Long Term Stability 20ppmΔ;RMS Noise 20uVΔ
50	LM236AH	63	28	Z6302	CN78		2.5V Reference Diode IREV 15mAΔ;IF 10mAΔ;VBR 2.515VA at IR 1mA;Rev Dyn Z1.0ΩΔ
51	LM236BH	63	28	Z6302	CN78		2.5V Reference Diode IREV 15mAΔ;IF 10mAΔ;VBR 2.540VA at IR 1mA;Rev Dyn Z1.0ΩΔ
52	LM285H1.2	63	28	Z6309	CN25		Voltage Regulator Diode;IR 30mAΔ;IF 10mAΔ;1.235V Ref;Rev Dyn Impedance 0.6 ohm max
53	LM285H2.5	63	28	Z6309	CN25		Voltage Reference Diode;IR 30mAΔ;IF 10mAΔ;2.5Vref;Rev Dyn Impedance 0.6 ohm max
54	LM299AH-20	63	28	Z6310	CN64		Precision 6.95V Ref;Ir 20mAΔ;If 1.0mAΔ;Long Term Stability 20ppmΔ;RMS Noise 20uVΔ
55	LM329AH	63	5C	Z6309	CN25		Precision 6.9V Volt Ref;Ir 30mAΔ;If 2.0mAΔ;RMS Noise 20uVΔ;TC 10ppm/°CΔ
56	LM336BH	63	07	Z6302	CN78		2.5V Reference Diode IREV 15mAΔ;IF 10mAΔ;VBR 2.540VA at IR 1mA;Rev Dyn Z1.4ΩΔ
57	LM336BZ	63	07	Z6302	TO92		2.5V Reference Diode IREV 15mAΔ;IF 10mAΔ;VBR 2.54V at IR 1.0mA
58	LM336H	63	07	Z6302	CN78		2.5V Reference Diode IREV 15mAΔ;IF 10mAΔ;VBR 2.590VA at IR 1mA;Rev Dyn Z1.4ΩΔ
59	LM336Z	63	07	Z6302	TO92		2.5V Reference Diode IREV 15mAΔ;IF 10mAΔ;VBR 2.59V at IR 1.0mA
60	LM385BH1.2	63	07	Z6309	CN25		Voltage Regulator Diode;IR 30mAΔ;IF 10mAΔ;1.235V Ref;Rev Dyn Impedance 1.0 ohm max
61	LM385BZ1.2	63	07	Z6309	TO92		Voltage Regulator Diode;IR 30mAΔ;IF 10mAΔ;1.235V Ref;Rev Dyn Impedance 1.0 ohm max
62	LM385BZ2.5	63	07	Z6309	TO92		Voltage Reference Diode;IR 30mAΔ;IF 10mAΔ;2.5Vref;Rev Dyn Impedance 1.0 ohm max
63	LM385H1.2	63	07	Z6309	CN25		Voltage Regulator Diode;IR 30mAΔ;IF 10mAΔ;1.235V Ref;Rev Dyn Impedance 1.0 ohm max
64	LM385H2.5	63	07	Z6309	CN25		Voltage Regulator Diode;IR 30mAΔ;IF 30mAΔ;2.5Vref;Rev Dyn Impedance 1.0 ohm max
65	LM385Z1.2	63	07	Z6309	TO92		Voltage Regulator Diode;IR 30mAΔ;IF 10mAΔ;1.235V Ref;Rev Dyn Impedance 1.0 ohm max
66	LM385Z2.5	63	07	Z6309	TO92		Voltage Reference Diode;IR 30mAΔ;IF 10mAΔ;2.5Vref;Rev Dyn Impedance 1.0 ohm max
67	LM399AH-50	63	07	Z6310	CN64		Precision 6.95V Ref;Ir 20mAΔ;If 1.0mAΔ;Long Term Stability 50ppmΔ;RMS Noise 50uVΔ
68	LM3999Z	63	07	Z6311	TO92		Prec Temp Stabilized Zero;0.0005%/°C TC;0.5 ohm Dynamic Impedance;0.5-10mA Current Range
69	MC1403AU	63	07	Z6312	DL8s		Precision 2.5V Ref;Vi 4.5-35V;Io 10mA;Line Reg 4.5mVΔ;Load Reg 10mVΔ;Vo TC 25ppm/°CΔ
70	MC1403U	63	07	Z6312	DL8s		Precision 2.5V Ref;Vi 4.5-35V;Io 10mA;Line Reg 4.5mVΔ;Load Reg 10mVΔ;Vo TC 40ppm/°CΔ
71	MC1404AU5	63	07		DL8s		Vo 5.0V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
72	MC1404AU6	63	07		DL8s		Vo 6.5V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
73	MC1404AU10	63	07		DL8s		Vo 10V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
74	MC1404U5	63	07		DL8s		Vo 5.0V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
75	MC1404U6	63	07		DL8s		Vo 6.5V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
76	MC1404U10	63	07		DL8s		Vo 10V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
77	MC1503AU	63	5C	Z6312	DL8s		Precision 2.5V Ref;Vi 4.5-35V;Io 10mA;Line Reg 4.5mVΔ;Load Reg 10mVΔ;Vo TC 25ppm/°CΔ
78	MC1503U	63	5C	Z6312	DL8s		Precision 2.5V Ref;Vi 4.5-35V;Io 10mA;Line Reg 4.5mVΔ;Load Reg 10mVΔ;Vo TC 55ppm/°CΔ
79	MC1504AU5	63	5C		DL8s		Vo 5.0V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
80	MC1504AU6	63	5C		DL8s		Vo 6.5V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
81	MC1504AU10	63	5C		DL8s		Vo 10V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
82	MC1504U5	63	5C		DL8s		Vo 5.0V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
83	MC1504U6	63	5C		DL8s		Vo 6.5V Trimmable Output;Δ±6% Vi Range;VREF 2.5V to 40V;No 12uVf;Rpl Rej 80dB
84	MC1504U10	63	5C		DL8s		Vo 10V Trimmable Output;Δ±6% Vi Range;Vref 2.5 to 40V;No 12uVf;Rpl Rej 80dB
85	MC3356P	63	47	Z6324	DL20a		Wideband FSK Receiver;Data Rates up to 500 kilobaud
86	MR40SIP(A)	63	28	Z6325	MD8Z		5 Volt Reference;6ppm/°C TC;±0.8% Tolerance;10mA Output Current
87	REF01AJ	63	5C	Z6303	TO99		Precision 10V Ref;Vo 10V±30%;Io 10mA min;TC 8.5ppm/°C max for -55 to 125°C
88	REF01AZ(M)	63	5C	Z6303	DL8ba		Precision 10V Ref;Vo 10V±3.0%;Io 10mA min;TC 8.5ppm/°C max
89	REF01CJ	63	07	Z6303	TO99		Precision 10V Ref;Vo 10V±1.0%;Io 8.0mA min;TC 65ppm/°C max for 0 to 70°C
90	REF01CP	63	07	Z6303	DL8j		Precision 10V Ref;Vo 10V ±0.3%;Io 8.0mA*;TC 65 ppm/°C max for 0°C to 70°C
91	REF01CZ	63	07	Z6303	DL8j		Precision 10V Ref;Vo 10V±3%;Io 8mA min;TC 65ppm/°C max
92	REF01EJ	63	07	Z6303	TO99		Precision 10V Ref;Vo 10V±30%;Io 10mA min;TC 8.5ppm/°C max for 0 to 70°C
93	REF01EZ	63	07	Z6303	DL8j		Precision 10V Ref;Vo 10V±3%;Io 10mA min;TC 8.5ppm/°C max
94	REF01G	63	6F		CH58		Precision 10V Ref;Vo 10V±0.3%;Io 21mA typ;TC 10ppm/°C typ
95	REF01HJ	63	07	Z6303	TO99		Precision 10V Ref;Vo 10V±50%;Io 10mA min;TC 25ppm/°C max for 0 to 70°C
96	REF01HP	63	07	Z6303	DL8j		Precision 10V Ref;Vo 10V ±0.3%;Io 10mA*;TC 25 ppm/°C max for 0°C to 70°C
97	REF01HZ	63	07	Z6303	DL8j		Precision 10V Ref;Vo 10V±3%;Io 10mA min;TC 25ppm/°C max
98	REF01J	63	5C	Z6303	TO99		Precision 10V Ref;Vo 10V±50%;Io 10mA min;TC 25ppm/°C max for -55 to 125°C
99	REF01N	63	6F		CH58		Precision 10V Ref;Vo 10V±0.3%;Io 21mA typ;TC 10ppm/°C typ
100	REF01Z(M)	63	5C	Z6303	DL8ba		Precision 10V Ref;Vo 10V±3.0%;Io 10mA min;TC 25ppm/°C max
101	REF02AJ	63	5C	Z6304	TO99		Precision 5.0V Ref;Vo 5.0V±30%;Io 10mA min;TC 8.5ppm/°C max for -55 to 125°C
102	REF02AZ(M)	63	5C	Z6303	DL8ba		Precision 5V Ref;Vo 5V±3.0%;Io 10mA min;TC 8.5ppm/°C max
103	REF02CJ	63	07	Z6304	TO99		Precision 5.0V Ref;Vo 5.0V±1.0%;Io 8.0mA min;TC 65ppm/°C max for 0 to 70°C
104	REF02CP	63	07	Z6304	DL8j		Precision 5.0V Ref;Vo 5.0V ±0.3%;Io 8.0mA*;TC 65 ppm/°C max for 0°C to 70°C
105	REF02CZ	63	07	Z6304	DL8j		Precision 5.0V Ref;Vo 5.0V±3%;Io 8mA min;TC 65ppm/°C max
106	REF02DJ	63	07	Z6304	TO99		Precision 5.0V Ref;Vo 5.0V±2.0%;Io 8.0mA min;TC 70ppm/°C typ for 0 to 70°C
107	REF02DP	63	07	Z6304	DL8j		Precision 5.0V Ref;Vo 5.0V ±0.3%;Io 8.0mA*;TC 70 ppm/°C Typ for 0°C to 70°C
108	REF02DZ	63	07	Z6304	DL8j		Precision 5.0V Ref;Vo 5.0V±3%;Io 8mA min;TC 70ppm/°C max

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	USE	T O D E	C O D E	DRAWINGS		GENERAL DESCRIPTION
					CKT.	OUT-LINE Δ=MO	
1	REF02G	63	6F			CH58	Precision 5V Ref;Vo 10V±0.3%;Io 21mA typ;TC 10ppm/°C typ.
2	REF02HJ	63	07	Z6304		TO99	Precision 5.0V Ref;Vo 5.0V±50%;Io 10mA min;TC 25ppm/°C max for 0 to 70°C
3	REF02HP	63	07	Z6304		DL8j	Precision 5.0V Ref;Vo 5.0V ±0.3%;Io 10mA*;TC 25 ppm/°C max for 0°C to 70°C
4	REF02HZ	63	07	Z6304		DL8j	Precision 5.0V Ref;Vo 5.0V±3%;Io 10mA min;TC 25ppm/°C max.
5	REF02J	63	5C	Z6304		TO99	Precision 5.0V Ref;Vo 5.0V±50%;Io 10mA min;TC 25ppm/°C max for -55 to 125°C
6	REF02N	63	6F			CH58	Precision 5V Ref;Vo 10V±0.3%;Io 21mA typ;TC 10ppm/°C typ.
7	REF02Z	63	5C	Z6303		DL8ba	Precision 5V Ref;Vo 5V±3.0%;Io 10mA min;TC 25ppm/°C max
8	REF02Z#mil	63	5C	Z6304		DL8j	Precision 5.0V Ref;Vo 5.0V±3%;Io 10mA min;TC 25ppm/°C max.
9	REF05AJ(M)	63	5C	Z6303		TO99	Precision 5V Ref;Vo 5V±3.0%;Io 10mA min;TC 8.5ppm/°C max
10	REF05BJ(M)	63	5C	Z6303		TO99	Precision 5V Ref;Vo 5V±3.0%;Io 10mA min;TC 25ppm/°C max
11	REF10AJ(M)	63	5C	Z6303		TO99	Precision 10V Ref;Vo 5V±3.0%;Io 10mA min;TC 8.5ppm/°C max
12	REF10BJ(M)	63	5C	Z6303		TO99	Precision 10V Ref;Vo 5V±3.0%;Io 10mA min;TC 25ppm/°C max
13	SG1503T	63	5C	Z6312		TO39	Precision 2.5V Ref;Vin Range 4.5V to 40V;Load Reg. 8.0mV at ΔI 10mA;Pd 1.0W
14	SG1503Y	63	5C	Z6312		DL8s	Precision 2.5V Ref;Vin Range 4.5V to 40V;Load Reg. 8.0mV at ΔI 10mA;Pd 800mW
15	SG2503M	63	07	Z6312		DL8h	Precision 2.5V Ref;Vin Range 4.5V to 40V;Load Reg. 8.0mV at ΔI 10mA;Pd 400mW
16	SG2503T	63	07	Z6312		TO39	Precision 2.5V Ref;Vin Range 4.5V to 40V;Load Reg. 8.0mV at ΔI 10mA;Pd 1.0W
17	SG2503Y	63	07	Z6312		DL8s	Precision 2.5V Ref;Vin Range 4.5V to 40V;Load Reg. 8.0mV at ΔI 10mA;Pd 800mW
18	SG3503M	63	07	Z6312		DL8h	Precision 2.5V Ref;Vin Range 4.5V to 40V;Load Reg. 10mV at ΔI 10mA;Pd 400mW
19	SG3503T	63	07	Z6312		TO39	Precision 2.5V Ref;Vin Range 4.5V to 40V;Load Reg. 10mV at ΔI 10mA;Pd 1.0W
20	SG3503Y	63	07	Z6312		DL8s	Precision 2.5V Ref;Vin Range 4.5V to 40V;Load Reg. 10mV at ΔI 10mA;Pd 800mW
21#	TAA940A	63	2F			CN25a	Reference Diode; Stabilized Volt 31V; Tc 10u V/°C; Diff. Res 10Ω.
22	TL430CJG	63	07			DL8v	Adjustable Shunt Regulator;Ref Input 2.5V Min;Reg Voltage 30V Max;Reg Curr 100mAΔΔ
23	uPC1350C	63	27	Z6325		MT58	AF Pwr Amp w/Pre Amp and ALC Ckt
24#	ZN423T	63	07	Z6307		CN25b	Precision 1.26V Voltage Reference;Rref 1.0ΩΔIref 5.0mA;RMS Noise 6.0uV†
25#	ZN458	63	27	Z6308		CN25b	Precision 10V† Volt Ref;Rref 2ΩΔIref 120mAΔΔ;RMS Noise 10uV†
26#	ZN458A	63	27	Z6308		CN25b	Precision 6V† Volt Ref;Rref 2ΩΔIref 120mAΔΔ;RMS Noise 10uV†
27#	ZN458B	63	27	Z6308		CN25b	Precision 4V† Volt Ref;Rref 2ΩΔIref 120mAΔΔ;RMS Noise 10uV†
28	AD590JH#mil	64	5F	Z6422		TO52	Non lo 298.2uA;Calib Error±5.0°CΔ;Current Noise 40pA/VHz;2-Term IC Temp Transducer
29	AD590KH#mil	64	5F	Z6422		TO52	Non lo 298.2uA;Calib Error ±2.0°C Δ;Current Noise 40pA/VHz;2-Term IC Temp Transducer
30	AD590LH#mil	64	5F	Z6422		TO52	Non lo 298.2uA;Calib Error ±1.0°C Δ;Current Noise 40pA/VHz;2-Term IC Temp Transducer
31#	BEL550A	64	07	Z6423		TO18	Voltage Stabilizer;Zener I 15mA;Stabilised Volt Range 30-32.2V
32#	BEL550B	64	07	Z6423		TO18	Voltage Stabilizer;Zener I 15mA;Stabilised Volt Range 32-34.2V
33#	BEL550C	64	07	Z6423		TO18	Voltage Stabilizer;Zener I 15mA;Stabilised Volt Range 34-36V
34	GPI1001	64				TO12	Limit;Freq resp 5.0M-1.0G;Limited out power -8dB;Out pwr flatness ±1.0dB
35	L2OV5	64	49	Z6406		CN70	Overvoltage Protector;On State Curr 2.0A;Nom Supply 5.0V;Trip Point 6.6 ±2V
36	L2OV6	64	49	Z6406		CN70	Overvoltage Protector;On State Curr 2.0A;Nom Supply 6.0V;Trip Point 7.3 ±2V
37	L2OV12	64	49	Z6406		CN70	Overvoltage Protector;On State Curr 2.0A;Nom Supply 12V;Trip Point 13.7 ±4V
38	L2OV15	64	49	Z6406		CN70	Overvoltage Protector;On State Curr 2.0A;Nom Supply 15V;Trip Point 17.0 ±5V
39	L2OV20	64	49	Z6406		CN70	Overvoltage Protector;On State Curr 2.0A;Nom Supply 20V;Trip Point 22.8 ±7V
40	L2OV24	64	49	Z6406		CN70	Overvoltage Protector;On State Curr 2.0A;Nom Supply 24V;Trip Point 27.3 ±8V
41	L6OV5	64	4E	Z6407		CN0	Overvoltage Protector;On State Curr 6.0A;Nom Supply 5.0V;Trip Point 6.6±2V*
42	L6OV6	64	4E	Z6407		CN0	Overvoltage Protector;On State Curr 6.0A;Nom Supply 6.0V;Trip Point 7.3±2V
43	L6OV12	64	4E	Z6407		CN0	Overvoltage Protector;On State Curr 6.0A;Nom Supply 12V;Trip Point 13.7±4V
44	L6OV15	64	4E	Z6407		CN0	Overvoltage Protector;On State Curr 6.0A;Nom Supply 15V;Trip Point 17.0±5V
45	L6OV24	64	4E	Z6407		CN0	Overvoltage Protector;On State Curr 6.0A;Nom Supply 24V;Trip Point 27.8±8V
46	L6OV28	64	4E	Z6407		CN0	Overvoltage Protector;On State Curr 6.0A;Nom Supply 28V;Trip Point 31.9±10V
47#	LA1231N	64	27			DL16b	FM IF SYS;IF Amp and Limiter;Quadrature Det;AF Preamp;Vcc 12V;Icc 26.5mA†;Pd 650mW absΔ
48	LM103H1.8	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 1.8V
49	LM103H2.0	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 2.0V
50	LM103H2.2	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 2.2V
51	LM103H2.4	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 2.4V
52	LM103H2.7	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 2.7V
53	LM103H3.3	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 3.3V
54	LM103H3.6	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 3.6V
55	LM103H3.9	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 3.9V
56	LM103H4.3	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 4.3V
57	LM103H4.7	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 4.7V
58	LM103H5.1	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 5.1V
59	LM103H5.6	64	5C	Z6405		CN25	Monolithic Regulator Diode;Pd 250mWΔΔ;IF 100mAΔΔ;VF 1.0VΔ At IF 10mA;BV 5.6V
60	LM113H	64	5C	Z6402		CN25d	Vref 1.22;Zdyn 1.0ΩΔ;Pd 100mWΔΔ;TC .01%/°C
61	LM313H	64	07	Z6402		CN25d	Vref 1.22;Z dyn 1.0Ω;Pd 100mWΔΔ;TC .01%/°C
62	MA500CP	64	07	Z6415		CH0	Biases External Pwr Mosfets;±17V/us SR;7MHz Gain-Bandwidth Prod;±25VΔ Vo;400mA Input Bias
63	MIOV42093-0920	64	4E			CN48	Overvolt Protect;Volt Protection Up to 35V;On State Current 35A
64	SG1543J	64	5C	Z6401		DL16e	Power Supply Output Supervisory Circuit;Contains Over-Voltage,Under-Voltage,Current Sense
65	SG1544J	64	5C	Z6418		TO116	E/I SENSOR;See SG1543J;Addl Features:Uncommitted Inputs to Volt Sensing Comparators
66	SG1549Y	64	5C	Z6420			Current Sense Latch;Analog Latch w/Digital Reset;Vs 25V
67	SG2543J	64	07	Z6401		DL16o	Power Supply Output Supervisory Circuit;Contains Over-Voltage,Under-Voltage,Current Sense
68	SG2544J	64	28	Z6418		TO116	E/I SENSOR;See SG1543J;Addl Features:Uncommitted Inputs to Volt Sensing Comparators
69	SG2549M	64	28	Z6420			Current Sense Latch;Analog Latch w/Digital Reset;Vs 25V
70	SG2549Y	64	28	Z6420			Current Sense Latch;Analog Latch w/Digital Reset;Vs 25V
71	SG3544J	64	07	Z6418		TO116	E/I SENSOR;See SG1543J;Addl Features:Uncommitted Inputs to Volt Sensing Comparators
72	SG3549M	64	07	Z6420			Current Sense Latch;Analog Latch w/Digital Reset;Vs 25V
73	SG3549Y	64	07	Z6420			Current Sense Latch;Analog Latch w/Digital Reset;Vs 25V
74	TAA550	64	2E			CN28	Voltage Stabilizer for Capacitance Diodes in TV Tuners;Vstab 35VΔ;Is 5.0mAΔ
75#	TAA550Z	64	2E			TO18	Voltage Stabilizer;Provides Supp Volt for Variable Cap Diodes in TV Tuners;V Stab 32-35V
76#	TAA550A	64	07	Z6403		CN28	Voltage Stabilizer;Vz 31V;Ri 25ΩΔ;TC 1.6mV/°CΔ;Iz 15mAΔ.
77#	TAA550B	64	07	Z6403		CN28	Voltage Stabilizer;Vz 33V;Ri 25ΩΔ;TC 1.6mV/°CΔ;Iz 15mAΔ.
78#	TAA550C	64	07	Z6403		CN28	Voltage Stabilizer;Vz 35V;Ri 25ΩΔ;TC 1.6mV/°CΔ;Iz 15mAΔ.
79#	TBA271AZ	64	07	Z6403		TO18	VOLTAGE STABILIZER;Vz 31v†;Zz 10Ω†;TC 16mV/°CΔ at Iz 5mA ΔTamb 0 to 50°C
80#	TBA271BZ	64	07	Z6403		TO18	VOLTAGE STABILIZER;Vz 33v†;Zz 10Ω†;TC 16mV/°CΔ at Iz 5mA ΔTamb 0 to 50°C
81#	TBA271CZ	64	07	Z6403		TO18	VOLTAGE STABILIZER;Vz 35v†;Zz 10Ω†;TC 16mV/°CΔ at Iz 5mA ΔTamb 0 to 50°C
82#	TCA750	64	2C	Z6404		DL16s	Multi-Stabilizer for Electronic Tuning;Vi 26.5-54V;Io 14.5mAΔ;Stabilizing Time 800ms.
83	TCR500	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 240uA†;at VF 25V;Limit Volt 1.0V at IF .9V
84	TCR501	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 330uA†;at VF 25V;Limit Volt 1.1V at IF .9V
85	TCR502	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 430uA†;at VF 25V;Limit Volt 1.3V at IF .9V
86	TCR503	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 560uA†;at VF 25V;Limit Volt 1.4V at IF .9V
87	TCR504	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 750uA†;at VF 25V;Limit Volt 1.6V at IF .9V
88	TCR505	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 1.0mA†;at 25V;Limit Volt 1.7V at IF .9V
89	TCR506	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 1.4mA†;at VF 25V;Limit Volt 2.0V at IF .9V
90	TCR507	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 1.8mA†;at VF 25V;Limited Volt 2.2V at IF .9V
91	TCR508	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 2.1mA†;at VF 25V; Limit Volt 2.3V at IF .9V
92	TCR509	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 2.5mA†;at VF 25V;Limit Volt 2.4V at IF .9V
93	TCR510	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 3.0mA†;at VF 25V;Limit Volt 2.5V at IF .9V
94	TCR511	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 3.6mA†;at VF 25V;Limit Volt 2.75V at IF .9V
95	TCR512	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 4.3mA†;at VF 25V;Limit Volt 2.95V at IF .9V
96	TCR513	64				TO92	JFET Current Limiter;Peak Oper Volt 75VΔ;IF 5.3mA†;at VF;Limit Volt 3.05V at IF .9V
97	TDA0200V	64	2F	F219		MS6	Adjustable Voltage and Current Regulator
98#	TD40723D	64	28	Z6410		FP51	Voltage Stabilizer;Vin 9.5 To 40V;Vout 2.0 To 37V;Regulation:50%Line,60%Load 1 To 50mA
99#	U225B	64	07	Z6421		DL4b	Voltage Limiter for Syn two-wire speech branches in PABEX;Syn Lim Noise Volt ±3.2V max
100	UDL502	64	59			TO8	Limiting Amplifiers,Cascadable;Freq Resp 5.0-500MHz;Sm Sig Gain 30db;Max Noise Fig 11db
101	UTF015	64	59			TO8	Volt Controlled Thin Film Attenuator Modules;Freq Rng 5.0M-1.0G;Input Pur 15VDC;7.0mA
102	UTF025	64	59			TO8	Volt Controlled Thin Film Attenuator Modules;Freq Rng 5.0M-2.5G;Input Pur 15VDC,15mA
103	UTF040	64	59			TO8	Volt Controlled Thin Film Attenuator Modules;Freq Rng 5.0M-1.0G;Input Pur 15VDC,10mA
104	UTL502	64	59			TO8	Limiting Amplifiers,Cascadable;Freq Resp 5.0-500MHz;Sm Sig Gain 7db;Max Noise Fig 11db
105	UTL1001	64	59			TO8	Limiting Amplifiers,Cascadable;Freq Rng 5.0M-1.0G;Input/Output VSWR 2.0:1.0;Input Sig 26db
106	UTL1002	64	59			TO8	Limiting Amplifiers,Cascadable;Freq Rng 5.0M-1.0G;Input/Output VSWR 2.0:1.0;Input Sig 26db
107	XR1543N(A)	64	5C	Z6401		DL16Z	Power Supply Output Supervisory Ckt;Contains Over/Under-Voltage;Current Sense
108	XR3543N(A)	64	07	Z6401		DL16Z	Power Supply Output Supervisory Ckt;Contains Over/Under-Voltage;Current Sense
109#	ZTK6.8	64	0F			DO35	Temp Compensated Volt Stab;Vz 6.5-7.2VΔ;Iz 90mA at TC 45°C;Rz 10Ω 5.0mA
110#	ZTK9	64	0F			DO35	Temp Compensated Volt Stab;Vz 8-10VΔ;Iz 63mA at TC 45°C;Rz 10Ω at 5.0mA

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	U	T	C	O	D	E	DRAWINGS		GENERAL DESCRIPTION
								CKT.	OUT-LINE Δ=MO	
1#	ZTK11	64	0F					DO35		Temp Compensated Volt Stab;Vz 10-12VΔ;lz 53mA at TC 45°C;Rz 10Ω at 5.0mA
2#	ZTK18	64	0F					DO35		Temp Compensated Volt Stab;Vz 16-20VΔ;lz 32mA at TC 45°C;Rz 10Ω at 5.0mA
3#	ZTK22	64	0F					DO35		Temp Compensated Volt Stab;Vz 20-24VΔ;lz 27mA at TC 45°C;Rz 10Ω at 5.0mA
4#	ZTK27	64	0F					DO35		Temp Compensated Volt Stab;Vz 24-30VΔ;lz 22mA at TC 45°C;Rz 10Ω at 5.0mA
5#	ZTK33	64	0F					DO35		Temp Compensated Volt Stab;Vz 30-36VΔ;lz 19mA at TC 45°C;Rz 10Ω at 5.0mA
6	9004	65	5F							VS ±15V;BW 0.0-3.0MHz*;SR ±1Vus*;Ri 5.0k*;Pd 220mWΔ
7	AN6342N	66	27	Z66AX		MS30				VTR Reference freq divider;Vcc 12.5V;l 22.5mA;Pd 280mW
8	TMS99532	72		Z7201						Allows Transmissional Reception of Serial-BinaryData at Rates up to 300 BPS.
9	600133-1	76	0	Z7647	DL24q					Active Filter;PCM Transmit;Vcc ±18V;Volt Gain -1.5dB min
10	600133-2	76	07	Z7647	DL24q					Active Filter;PCM Transmit;Vcc ±18V;Volt Gain -0.9dB min
11	600134-1	76	07	Z7648	DL24q					Active Filter;PCM Transmit;Vcc ±18V;Volt Gain -0.8dB min
12	600134-2	76	07	Z7648	DL24q					Active Filter;PCM Transmit;Vcc ±18V;Volt Gain -0.95dB min
13	AF101CJ	76	07	Z7628	DL8an					HIGH BAND SPLITTER FILTER;Vs ±18VΔ;Ri 32kΩ†;Ro 5ΩΔ;Is 5mA†;Cutoff Freq 1209HzΔ
14	AF110CJ	76	07	Z7635	DL8an					DUAL DETECTOR AND COMPARATOR;Vs ±12V±15V;Vi 615Vrms†;Is 18mAΔ/-12mAΔ;Zi 50kΩ†
15	AF111CJ	76	07	Z7630	DL8an					DUAL FILTER;Vs ±12 to ±15V;to:Filter #1-697Hz,#2-770Hz;Acc ±5%;Q 15Hz/Hz†;Is 5mA†
16	AF112CJ	76	07	Z7630	DL8an					DUAL FILTER;Vs ±12 to ±15V;to:Filter #1-852Hz,#2-941Hz;Acc ±5%;Q 15Hz/Hz†;Is 5mA†
17	AF113CJ	76	07	Z7630	DL8an					DUAL FILTER;Vs ±12 to ±15V;to:Filter #1-1209Hz,#2-1336Hz;Acc ±5%;Q 15Hz/Hz†;Is 5mA†
18	AF114CJ	76	07	Z7630	DL8an					DUAL FILTER;Vs ±12 to ±15V;to:Filter #1-1477Hz,#2-1633Hz;Acc ±5%;Q 15Hz/Hz†;Is 5mA†
19	AF134-1CJ	76	07	Z7634	DL8an					PCM Transmit receive filter;Vs ±12±15V;GV -60dB at 3.4kHz;Vos 100mVΔ;Ri 100kΩ*;Ro 1.0ΩΔ
20	AF134-2CJ	76	07	Z7634	DL8an					PCM TRANSMIT/RECEIVE FILTER;Vs ±12±15V;Gv -6dB at 3.4kHz;Vos 25mVΔ;Ri 100kΩ*;Ro 1ΩΔ
21▼	AF160-1CJ(A)	76	28	Z7640	DL16Z					Universal Wideband Active Filter;Vs ±18V
22	AF160-2CJ#ai	76	28	Z7640	DL16Z					Universal Wideband Active Filter;Vs ±18V
23	AF161-1CJ#ai	76	28	Z7644	DL24h					Dual Universal Active Filters;Vs ±18V
24	AF161-2CJ#ai	76	28	Z7644	DL24h					Dual Universal Active Filters;Vs ±18V
25	CH1230	76	07	Z7649	DL28e					Receive Filter;Bell 103/113 Modem Type
26	CH1252	76	07	Z7639	DL16a					Dual Channel FSK Transmit Filter
27	CH1253	76	07	Z7639	DL16bc					Dual Channel 30dB FSK Transmit Filter 1080/1750Hz
28	CH1257	76	07	Z7652	DL16a					Dual Channel FSK Receive Filter
29	CH1267A	76	07	Z7638	DL24h					BELL 103/113 Type 300bps Modem Receive Filter
30	CH1290	76	07	Z7603	DL16a					LP,HP,BP Filter;Freq 200kHz;fo Stability 10m%/°C;Io 25mA;VS ± 15V;IS ±9.0mA
31	CH1295	76	06	Z7618	DL24h					Low Pass Filter;Vs±18Vmax;Passband 686-955Hz;Gain:0±0.5dB at 697Hz;Zi Ring 10dBm
32	CH1296	76	06	Z7618	DL24h					High Pass Filter;Vs±18Vmax;Passband 1191-1657Hz;Gain:0±0.5dB at 1209Hz;Zi Ring 10dBm
33	CH1710-01(A)	76	07	Z7650	DL32a					Modem Filter Set 212 Type Vcc ±18V
34	CH1720-01(A)	76	07	Z7651	DL32a					Modem Filter Set 212 Type Vcc ±18V
35	CH1730-01(A)	76	07	Z7650	DL32a					Modem Filter Set 212 Type Vcc ±18V
36	CH1740-01(A)	76	07	Z7651	DL32a					Modem Filter Set 212 Type Vcc ±18V
37	MC14400L	76	48	Z7657	DL16n					Codec Filter PCM-Mono Ckt;Sync/Async Operation
38	MC14401L	76	48	Z7658	DL18j					Codec Filter PCM-Mono Ckt;Sync/Async Operation
39	MC14402L	76	48	Z7659	DL22q					Codec Filter PCM-Mono Ckt;Sync/Async Operation
40	MC14402Z	76	48	Z7660	LL28a					Codec Filter PCM-Mono Ckt;Sync/Async Operation
41	MC14403L	76	48	Z7656	DL16n					Codec Filter PCM-Mono Ckt;Sync/Async Operation
42	MC14405L	76	48	Z7661	DL16n					Codec Filter PCM-Mono Ckt;Sync/Async Operation
43	MC145431L	76	48	Z7655	DL16n					Tuneable Low-Pass/Band Filter;7-Pole Elliptic Low-Pass/4-Pole Band-Pass,
44	MC145431P	76	48	Z7655	DL16Z					Tuneable Low-Pass/Band Filter;7-Pole Elliptic Low-Pass/4-Pole Band-Pass,
45	MC145433L	76	48	Z7654	DL16n					Notch/Bandpass Filter;6-Pole Notch/4-Pole Bandpass
46	MC145433P	76	48	Z7654	DL16Z					Notch/Bandpass Filter;6-Pole Notch/4-Pole Bandpass
47	MC145434L	76	48	Z7654	DL16n					Notch/Bandpass Filter;6-Pole Notch/4-Pole Bandpass
48	MC145434P	76	48	Z7654	DL16Z					Notch/Bandpass Filter;6-Pole Notch/4-Pole Bandpass
49	MF10BN	76	07	Z7662	DL20b					Universal Mono Dual Switched Capacitor Filter;Vs 7V
50	MF10CN	76	07	Z7662	DL20b					Universal Mono Dual Switched Capacitor Filter;Vs 7V
51▼	MF409IP	76	28	Z7676	MD8Z					Linear Filter;0.03 to 10V/Sec Range;±0.03% Linearity;±10 Volt Signal Level
52	R5601	76		Z7663	DL22Z					Quad Chirped Transversal Filter;TWO 512 Stage Charge-Coupled Devices
53	R5602	76		Z7664	DL16Z					Transversal Filter;Eight Standard Filter Responses
54▼	R5602-1	76	58	Z7664	DL16Z					Transversal Filter;Narrow Lowpass
55▼	R5602-2	76	58	Z7664	DL16Z					Transversal Filter;Broad Lowpass
56▼	R5602-3	76	58	Z7664	DL16Z					Transversal Filter;Narrow Bandpass
57▼	R5602-4	76	58	Z7664	DL16Z					Transversal Filter;Broad Bandpass
58▼	R5602-5	76	58	Z7664	DL16Z					Transversal Filter;Sine Chirp-unwindowed
59▼	R5602-6	76	58	Z7664	DL16Z					Transversal Filter;Cosine Chirp-unwindowed
60▼	R5602-7	76	58	Z7664	DL16Z					Transversal Filter;Sine Chirp-Hanning windowed
61▼	R5602-8	76	58	Z7664	DL16Z					Transversal Filter;Cosine Chirp-Hanning windowed
62	R5604	76		Z7665	DL16Z					Bandpass Filter;1/3 Octave ANSI Class 3 Filter;Three 6-Pole Chebyshev
63	R5605	76		Z7666	DL16Z					Bandpass Filter;1/2 Octave ANSI Class 3 Filter;Two 6-Pole Chebyshev
64	R5606	76		Z7667	DL16Z					Bandpass Filter;Full Octave ANSI Class 2 Filter;One 6-Pole Chebyshev
65	R5609	76		Z7668	DL8Z					Low Pass Filter;7-Pole,Six-zero Elliptic w/75db out of Band Rejection
66	R5611	76		Z7668	DL8Z					High Pass Filter;5-Pole Chebyshev w/30db per Octave Roll-off
67	R5612	76		Z7668	DL8Z					High Pass Filter;4-Pole Notch Filter w/50db Rejection
68	R5613	76		Z7668	DL8Z					Low Pass Filter;w/Linear phase;w/over 60db out of Band Rejection
69	R5614	76		Z7668	DL8Z					Bandpass Filter;1/3 Octave 6-Pole Chebyshev ANSI class 3
70	R5615	76		Z7668	DL8Z					Bandpass Filter;1/2 Octave 6-Pole Chebyshev ANSI class 3
71	R5616	76		Z7668	DL8Z					Bandpass Filter;Full Octave 6-Pole Chebyshev ANSI class 3
72	R5620	76		Z7669	DL18Z					Universal Active Filter;Double Poly NMOS Switch Capacitor
73	R5620#ai	76		Z7637						Active Filter;NMOS Switched Capacitor Universal
74	R5621	76	07	Z7670	DL14Z					Universal Active Filter;2 Second Order State Variable
75	R5622	76	07	Z7671	DL20Z					Universal Active Filter;4 Second Order Section;4 2-Pole Filters
76	R5630	76	07	Z7672	DL16Z					300 Baud Modem Filter;for 103/113 and CCITT V.21 Modem
77	R5631	76	07	Z7672	DL16Z					300 Baud Modem Filter;for 103/113 and CCITT V.21 Modem
78	R5632(A)	76		Z7673	DL24Z					1200 Baud 212/V.22 Modem Filter
79	R5633	76		Z7674	DL16Z					Bandpass Filter;Switched Capacitor;Bank/Multiplexer Design
80	S3522(A)	76	07	Z7653	DL16Z					Modem Filter w/Equalizer;Bell 212A/V.22 Compatible
81	S3526A-P(A)	76	07	Z7645	DL14q					Bandpass/Notch Filter;Bandpass/Bandreject Outputs;Generates 2600Hz Freq
82	S3526B-P(A)	76	07	Z7645	DL14q					Bandpass/Notch Filter;Bandpass/Bandreject Outputs;Generates 2600Hz Freq
83#	SL532C	76	5C	Z7646	CN11e					Wide band limiting IF strips;Bandwidth over 400MHz;Low phase shift w/ amplitude.
84#	SM153	76	27	Z1675	DL16bs					PCM Filter;Transmit/Receive
85	SSM2044	76		Z7623						4-Pole Voltage Controlled Filter;Control Rej 40dB† for 1k to 1 Sweep;SupplyE ±15V typ.
86#	TCA580	76	27	Z7602	DL16ak					Gyator-Switch for Reel Replacement in Telephone Low-pass filter;Vf 25mVΔ;If 9.0uAΔ.
87	UAF41	76	28	Z7622	DL14bu					Universal Active Filters;2 Pole;Freq Range 25kHz max;Q Factor Range 0.5-500
88	CA2524E	80	07	Z8002	DL16as					MODULATOR;Regulating Pulse Width;Single-ended/Push-Pull App;Max Pd 1.0W.
89	CA3524E	80	07	Z8002	DL16as					MODULATOR;Regulating Pulse Width;Single-ended/Push-Pull App;Max Pd 1.0W.
90	CA3524H	80	07	Z8002	CH63					MODULATOR;Regulating Pulse Width;Single-ended/Push-Pull App;Max Pd 1.0W.
91#	HA17524G	80	48	Z720						Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 20mVΔ;tr 200ns;tf 100ns
92#	HA17524P	80	28	Z720						Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 20mVΔ;Load 50mVΔ;tr 200ns;tf 100ns
93▼	MC343	80	28							Voltage and Current Feedback;Single Ended or Push-Pull;1.0kHz-300Hz
94▼	PWM125AK	80	5C	Z8003	DL16ah					Regulating Pulse Width Modulator w/NOR Logic;8-35V Oper;5.1V trimmed ±1%;500kHz max
95▼	PWM125BK	80	28	Z8003	DL16ah					Regulating Pulse Width Modulator w/NOR Logic;8-35V Oper;5.1V trimmed ±1%;500kHz max
96▼	PWM125CK	80	07	Z8003	DL16ah					Regulating Pulse Width Modulator w/NOR Logic;8-35V Oper;5.1V trimmed ±1%;500kHz max
97	RPT82FQ	80	48	Z8004	DL16bz					PCM Carrier Repeater;On Clip ALBO Diode;Clock Shutdown Circuit
98	S3524J	80	07	Z8002	DL16Z					Pulse Width Modulators Regulator;Vcc 40V
99	SG1524F	80	5C	Z5605	DL16bb					Regulating Pulse Width Modulator;Vin 40V;lout 100mA
100	SG1524J	80	5C	Z5605	DL16b					Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 20mVΔ;Load 50mVΔ;Tr 200ns,tf 100ns
101#	SG1524N	80	5C	Z8002	DL16w					MODULATOR;Regulating Pulse Width;Single-End/Push-Pull App;Typ Quies I 8mA;Max Pd 1 W
102	SG1525A	80		Z8003	TO116					MODULATOR;Regulating Pulse Width w/NOR Logic;Vcc 8 to 35V;Vref 5.1V Trimmed to ±1%
103	SG1526J	80	5F	Z8008	DL18j					Pulse Width Modulation Control Ckt;8.0-35V Operation
104	SG1527A	80		Z8003	TO116					MODULATOR;Regulating Pulse Width w/OR Logic;Vcc 8 to 35V;Vref 5.1V Trimmed to ±1%
105	SG1731(A)	80	5C	Z8005	TO116					DC Motor Pulse Width Modulator;Vs ±18V;ISource,Sink or Load 200mA
106	SG2524F	80	07	Z5605	DL16bf					Regulating Pulse Width Modulator;Vin 40V;lout 100mA
107	SG2524J	80	07	Z5605	DL16b					Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 20mVΔ;Load 50mVΔ;Tr 200ns,tf 100ns
108	SG2524N	80	07	Z5605	DL16p					Regulating Pulse Width Modulator;Vin 40V;lout 100mA
109	SG2525A	80		Z8003	TO116					MODULATOR;Regulating Pulse Width w/NOR Logic;Vcc 8 to 35V;Vref 5.1V Trimmed to ±1%
110	SG2526J	80	4F	Z8008	DL18j					Pulse Width Modulation Control Ckt;8.0-35V Operation

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	U	T	C	O	DRAWINGS		GENERAL DESCRIPTION
						CKT.	OUT-LINE Δ=MO	
1	SG2526N	80	4F	28008	DL18i			Pulse Width Modulation Control Ckt;8.0-35V Operation
2	SG2527A	80		28003	TO116			MODULATOR,Regulating Pulse Width w/OR Logic;Vcc 8 to 35V;Vref 5.1V Trimmed to ±1%
3	SG2731(A)	80	2B	28005	TO116			Dc Motor Pulse Width Modulator;Vs ±18V;Isources;Sink or Load 200mA
4	SG3524F	80	07	25605	DL16bb			Regulating Pulse Width Modulator;Vin 40V;Iout 100mA
5	SG3524N	80	07	25605	DL16p			Regulating Pulse Width Modulator;Vin 40V;Iout 100mA
6	SG3525A	80		28003	TO116			MODULATOR,Regulating Pulse Width w/NOR Logic;Vcc 8 to 35V;Vref 5.1V Trimmed to ±1%
7	SG3526J	80	0C	28008	DL18j			Pulse Width Modulation Control Ckt;8.0-35V Operation
8	SG3526N	80	0C	28008	DL18i			Pulse Width Modulation Control Ckt;8.0-35V Operation
9	SG3527A	80		28003	TO116			MODULATOR,Regulating Pulse Width w/OR Logic;Vcc 8 to 35V;Vref 5.1V Trimmed to ±1%
10	SG3731(A)	80	07	28005	TO116			Dc Motor Pulse Width Modulator;Vs ±18V;Isources;Sink or Load 200mA
11	SGL2731(A)	80	5C	28005	TO116			DC Motor Pulse Width Modulator;Vs ±18V;Isink 200mA
12	SGL2731(A)	80	2B	28005	TO116			DC Motor Pulse Width Modulator;Vs ±18V;Isink 200mA
13	SGL3731(A)	80	07	28005	TO116			DC Motor Pulse Width Modulator;Vs ±18V;Isink 200mA
14	SI1525BK	80	5C	28003	DL16ah			Regulating Pulse Width Modulators;Vs 40V;Iout/Source or Sink 200mA
15	SI1527BK	80	5C	28003	DL16ah			Regulating Pulse Width Modulators;Vs 40V;Iout/Source or Sink 200mA
16	SI2525BK	80	2B	28003	DL16ah			Regulating Pulse Width Modulators;Vs 40V;Iout/Source or Sink 200mA
17	SI2527BK	80	2B	28003	DL16ah			Regulating Pulse Width Modulators;Vs 40V;Iout/Source or Sink 200mA
18	SI3525BK	80	07	28003	DL16ah			Regulating Pulse Width Modulators;Vs 40V;Iout/Source or Sink 200mA
19	SI3527BK	80	07	28003	DL16ah			Regulating Pulse Width Modulators;Vs 40V;Iout/Source or Sink 200mA
20#	TDA1060	80	2B	25972	DL16ap			Pulse Modulator With Internal Sawtooth Gen 50Hz To 100kHz;Output Pulse 5.0V,40mAmin
21#	TDA1060B	80	2B	25972	DL16ap			Pulse Modulator With Internal Sawtooth Gen 50Hz to 100kHz;Output Pulse 5.0V,40mAmin
22	TL593C	80	07	28001	DL16Z			Pulse Width Modulators Control Ckt;Vcc 41V
23	TL593CN	80	07	28001	DL16Z			Pulse Width Modulators Control Ckt;Vcc 41V
24	TL594C(J)	80	07	28001	DL16Z			Pulse Width Modulators Control Ckt;Vcc 41V
25	TL594C(N)	80	07	28001	DL16Z			Pulse Width Modulators Control Ckt;Vcc 41V
26	TL594J(A)	80	2B	28001	DL16Z			Pulse Width Modulators Control Ckt;Vcc 41V
27	TL594N(A)	80	2B	28001	DL16Z			Pulse Width Modulators Control Ckt;Vcc 41V
28	TL594MJ(A)	80	5C	28001	DL16Z			Pulse Width Modulators Control Ckt;Vcc 41V
29	TL595C(J)	80	07	28011	DL18Z			Pulse Width Modulators Control Ckt;Vcc 41V
30	TL595C(N)	80	07	28011	DL18Z			Pulse Width Modulators Control Ckt;Vcc 41V
31	TL595J(A)	80	2B	28011	DL18Z			Pulse Width Modulators Control Ckt;Vcc 41V
32	TL595N(A)	80	2B	28011	DL18Z			Pulse Width Modulators Control Ckt;Vcc 41V
33	uA494DC	80	07	28001	DL16k			Universal Switch Mode Pulse Width Modulated Control Circuit;SW Freq 1kHz-300kHz;Eo 40V Max
34	uA494DM	80	5C	28001	DL16k			uA494DC w/Military Temp Range
35	uA494PC	80	07	28001	DL16j			uA494DC in Plastic DIP Package
36	UC1524J	80	5C	25605	DL16o			Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 20mVΔ;Load 50mVΔ;TR 20uS;TF 10uS
37	UC1524N	80	5C	25605	DL16w			Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 20mVΔ;Load 50mVΔ;TR 20uS;TF 10uS
38	UC2524J	80	2B	25605	DL16o			Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 20mVΔ;Load 50mVΔ;TR 20uS;TF 10uS
39	UC2524N	80	2B	25605	DL16o			Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 20mVΔ;Load 50mVΔ;TR 20uS;TF 10uS
40	UC3524J	80	07	25605	DL16o			Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 30mVΔ;Load 50mVΔ;TR 20uS;TF 10uS
41	UC3524N	80	07	25605	DL16w			Regulating Pulse Width Modulator;Vo 5.0V;Line Reg 30mVΔ;Load 50mVΔ;TR 20uS;TF 10uS
42	XR494CN	80	07	259CW	DL16Z			Pulse Width Modulating Regulator;Vcc 40V;Freq 300kHz
43	XR494CP	80	07	259CW	DL16Z			Pulse Width Modulating Regulator;Vcc 40V;Freq 300kHz
44	XR494M	80	5C	259CW	DL16Z			Pulse Width Modulating Regulator;Vcc 40V;Freq 300kHz
45	XR495CN	80	07	259CX	DL16Z			Pulse Width Modulating Regulator;Vcc 40V;Freq 300kHz
46	XR495CP	80	07	259CX	DL16Z			Pulse Width Modulating Regulator;Vcc 40V;Freq 300kHz
47	XR495M	80	5C	259CX	DL16Z			Pulse Width Modulating Regulator;Vcc 40V;Freq 300kHz
48	XR1525AN(A)	80	5C	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
49	XR1527AN(A)	80	5C	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
50	XR2230CP	80	07	28007	DL16Z			Pulse Width Modulator Control System;Vs ±18V
51	XR2525AC(A)	80	2B	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
52	XR2525AN(A)	80	2B	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
53	XR2527AC(A)	80	2B	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
54	XR2527AN(A)	80	2B	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
55	XR3525AC(A)	80	07	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
56	XR3525AN(A)	80	07	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
57	XR3527AC(A)	80	07	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
58	XR3527AN(A)	80	07	28003	DL16Z			Pulse Width Modulator Regulator;8-35V Operation
59	CS140	81	27	26226	DL16ag			Dual Motor Speed Cont Ckt;Vs 12VΔ;Regulator Volt 4.4VΔ;Speed Regulation ±1%
60#	ESM227	81	07		QL14c			Speed Regulation for Permanent Magnet DC Motor;VCC 18V;Io 1.8A
61#	ESM227N	81	07		14T3			Speed Regulation for Permanent Magnet DC Motor;VCC 18V;Io 1.8A
62#	ESM900	81	07		TO39			Speed Regulation for Permanent Magnet DC Motor;VCC 14V;Io 0.5A
63#	ESM910	81	07		TO39			Speed Regulation for Permanent Magnet DC Motor;VCC 20V;Io 0.5A
64#	HEF4752VD	81	4B	28107	DL28b			AC Motor Control Circuit;Fr 0-200Hz;Vs 4.5-12.5V;Is 2.0mA at 10V
65#	HEF4752VP	81	4B	28107	DL28b			AC Motor Control Circuit;Fr 0-200Hz;Vs 4.5-12.5V;Is 2.0mA at 10V
66	LM1014AN	81	27	28103	DL10a			Motor speed regulator;ΔVs 5.0V-20V;Is 6.0mA;Line reg 2.0%;Vref at Vs 5.0-20V
67	LM1014AN	81	27	28103	DL10a			MOTOR SPEED REGULATOR;ΔVs 5.0V-20V;Is 6.0mA;Line Reg 2.0%;Vref at Vs 5.0-20V
68	LM1812A	81	27	28103	DL10a			Motor speed regulator;ΔVs 5.0V-20V;Is 6.0mA;Line reg 1.0%;Vref at Vs 5.0-20V
69	LM1815N	81	4C	28104	DL14ce			ADAPTIVE SENSE AMPLIFIER;VCC 10V;Icc 3.6mA;Ref Pulse Width 100uS;Ri 20kΩ;CMOS Compat
70#	MC212	81	2B					Motor Speed Control;Armature Voltage and Current Feedback;1.0% Speed Regulation
71#	MC213	81	2B					Motor Speed Control;Tachometer Feedback;IR Compensation
72#	NE5522N	81	07		24Z			Universal Analog Controller;Used Where Closed Loop Control of Machine Speed/Accel Req d
73#	RF3P01	81	07	28112	FP72			DC Motor Controller;Analog F-G Servo PLL Ckt/Logic Ckt Built in
74	SG2925	81	4F	28102	MS31			Switch Mode Driver for DC Motors;Driving Capability 2A 36V 30kHz
75	SN76602N(A)	81	07	28301	DL14Z			Servo Controller/Driver;for Controlling Direction/Magnitude of Current for Motor Control
76#	TA7245BP	81	37	28118	MP24			3 Phase Motor Driver
77#	TA7247AP	81	37	28119	DL20d			3 Phase Motor Driver
78#	TA7248P	81	17	28120	DL20d			3 Phase Motor Driver
79#	TA7256P(A)	81	37	28125	MT65			Linear Bridge Driver
80#	TA7257P	81	37	28123	MT64			Bridge Driver
81#	TA7259P	81	37	28118	MP24			3 Phase Motor Driver
82#	TA7260P	81	37	28121	MP25			2 Phase Motor Driver
83#	TA7261P	81	17	28121	MP25			2 Phase Motor Driver
84#	TA7262P(A)	81	37	28122	MP24			3 Phase Motor Driver
85#	TA7267P	81	37	28123	MT64			Bridge Driver
86#	TA7354P	81	37	28124	MP26			Bridge Driver
87#	TC9142P	81	37	28126	DL16ca			PLL Controller
88#	TCA900	81	07		TO126			Motor Speed Regulator;Vs 14VΔ;Pd 800mWΔ;Vref 2.6V;Vo 3.6V;Line Reg .1%/V.
89#	TCA910	81	07		TO126			Motor Speed Regulator;Vs 20VΔ;Pd 800mWΔ;Vref 2.6V;Vo 5.6V;Line Reg .1%/V.
90#	TCA955	81	2B		DL16ac			Speed Regulator;Vt 16V;Ic 50mA;Adj Speed Range
91#	TCA955K	81	2B	28101	FP67			Speed Controller;Vs 16VΔ;Is 12mAΔ at Vs 4.8;Vos 20mVΔ;Ii 1uA;Output Sat Volt 1VΔ at 50mA
92#	TDA1040	81	07		MT49			Speed Regulation for Permanent Magnet DC Motor;VCC 18V;Io 1A;Pd 0.9W.
93#	TDA1041	81	07		MT49			Speed Regulation for Permanent Magnet DC Motor;VCC 18V;Io 1A;Pd 1.4W.
94#	TDA1151	81	06	26411	TO126			
95	TEA1511DP(A)	81		28111	DL8br			Triac Controller;Zero Voltage/Sample Comparator/Current Switching Ckt
96#	TLE4201A	81	0B	28113	DL18p			DC Motor Driver;Dual Comparator w/power output stage (push-pull);Io pk rep 2.0A max
97#	TLE4201S	81	0B	28113	MT60			DC Motor Driver;Dual Comparator w/power output stage (push-pull);Io pk rep 2.0A maxd
98	uA7392DC	81	4B	26228	DL14zb			Motor Speed Control Ckt;Vs 14.5V;Is 7.5mA;Regulator Vo 5.0V;Reg Line 20mVΔ;Load 40mVt
99	uA7392DM	81	5A	26228	DL14zb			Motor Speed Control Ckt;Vs 14.5V;Is 7.5mA;Regulator Vo 5.0V;Reg Line 20mVΔ;Load 40mVt
100	uA7392PC	81	4B	26228	DL14zb			Motor Speed Control Ckt;Vs 14.5V;Is 7.5mA;Regulator Vo 5.0V;Reg Line 20mVΔ;Load 40mVt
101	UAA4004DP	81		28108	DL16cs			Switch Mode Control of DC Motors;Vcc ±15V
102	UAA4007P(A)	81		28109	DL8br			Triac Controller;Ignition/Cutoff or Conduction Angle Variation Control Ckt
103	UAA4008P(A)	81		28110	DL8br			Triac Controller;for 3-wire Supplies Conductor Angle Variation Control Ckt
104#	UCN4202A	81	2B	28114	DL16da			Stepper-Motor Translator and Driver;Pkg Pd 2.0W;Supply Current 85mAΔ;BV 20V;15V sustaining
105#	UCN4203A	81	2B	28114	DL16da			Stepper-Motor Translator and Driver;Pkg Pd 2.0W;Supply Current 85mAΔ;BV 50V;35V sustaining
106#	UDN2949Z	81	2B	28115	MT61			Half-Bridge Motor Driver;3.5A Peak Output;32V Output Breakdown
107#	UDN2952B	81	2B	28116	DL16da			Full-Bridge Motor Driver;Motor Supply Volt Range 4.5V to 40V;Iout ±3.5A;Pd 2.8W at 25°Camb
108#	UDN2952W	81	2B	28117	MT62			Full-Bridge Motor Driver;Motor Supply Volt Range 4.5V to 40V;Iout ±3.5A;Pd 5.3W at 25°Camb
109	AGC330	87	05		TO3			Thin Film Cascadable Amp/Fast Response Attenuator;Freq Resp 5.0-30MHz;Resp Time 1.5uSec
110	TEB1026	87	07	28703	DL16cs			Latch Ckt for 8 Relays;Vee 17V;I 100mA

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	U S E	T C O D E	DRAWINGS		GENERAL DESCRIPTION
				CKT.	OUT-LINE Δ=MO	
1#	u417B	87				AM/FM,Audio Amp;Supply Volt Rng3-15V;Pd 600(Max);Volt Amp/1KHz 40dB;P Out 700mW
2#	u418B	87				AM/FM,Audio Amp;Supp Volt Rng 3-15V;Pd 600mW (Max);Volt Amp/1KHz 40dB;P Out 1W
3#	EA218	88			MP2	Hall field probe;Open Circuit Hall Voltage 85mV*;Rated Control Current 100mA
4#	FA22e	88			MP11	Hall field probe;Open Circuit Hall Voltage 120mV*;Rated Control Current 150mA
5#	FA24	88			MP1	Hall field probe;Open Circuit Hall Voltage 300mV*;Rated Control Current 400mA
6#	FC32	88			MP6	Hall field probe;Open Circuit Hall Voltage 130mV*;Rated Control Current 100mA
7#	FC33	88			MP7	Hall field probe;Open Circuit Hall Voltage 145mV*;Rated Control Current 100mA
8#	FC34	88			MP8	Hall field probe;Open Circuit Hall Voltage 290mV*;Rated Control Current 200mA
9#	HKZ101	88	4D	Z8802	MS34	Hall-Effect Vane Switch Magnetic Ckt. Encapsulated;Vs 30V
10#	HKZ101S	88	07	Z8802	MS34	Hall Effect Vane Switch Magnetic Ckt. Encapsulated;Vs 30V
11#	RHY10	88			MP12	Hall field probe;Open Circuit Hall Voltage 70mV*;Rated Control Current 100mA
12#	RHY11	88			MP13	Hall field probe;Open Circuit Hall Voltage 105mV*;Rated Control Current 150mA
13#	RHY17	88			MP14	Hall field probe;Open Circuit Hall Voltage 300mV*;Rated Control Current 60mA
14#	RHY18	88			MP15	Hall field probe;Open Circuit Hall Voltage 150mV*;Rated Control Current 35mA
15#	RHY18S1	88			MP16	Hall field probe;Open Circuit Hall Voltage 25mV*;Rated Control Current 10mA
16#	RHY19	88			MP4	Hall field probe;Open Circuit Hall Voltage 120mV*;Rated Control Current 80mA
17#	SAS231L	88	07	Z8816	FP75	Hall IC;Output Volt Proportional to Magnetic Field;Supply Volt Range 4.75/15V;Open Coll
18#	SAS231W	88	07	Z8815	FP73	Hall-Effect IC w/Output voltage Proportional to Magnetic Field;Vs 4.75 to 15V;Is 10mA max
19#	SAS241	88	07	Z8817	FP74	Hall Eff Switch;Magnet Oper,Contactless/Dynamic Outputs;VS Range 4.75/18.0V;Open Coll
20#	SAS241S4	88	07	Z8817	FP74	Hall Eff Switch;Magnet Oper,Contactless/Dynamic Outputs;VS Range 4.75/5.25V;Open Coll
21#	SAS250	88	4C	Z8817	FP74	Magnetically Operated Contactless Switch;Supply Voltage Range 4.5 to 27V
22#	SAS251	88	07	Z8817	FP74	Hall Eff Switch;Magnet Oper,Contactless/Static Outputs;VS Range 4.75/27.0V;Open Coll
23#	SAS251S4	88	07	Z8817	FP74	Hall Eff Switch;Magnet Oper,Contactless/Static Outputs;VS Range 4.75/5.25V;Open Coll
24#	SAS251S5	88	07	Z8817	FP74	Hall Eff Switch;Magnet Oper,Contactless/Static Outputs;VS Range 4.75/18.0V;Open Coll
25#	SAS261	88	07			Hall Eff Switch;Magnet Oper,Contactless/Enable Input;Static Open Coll Output
26#	SAS261S4	88	07			Hall Eff Switch;Magnet Oper,Contactless/Enable Input;Static Open Coll Output
27#	SBV525	88			MP3	Hall field probe;Open Circuit Hall Voltage 97mV*;Rated Control Current 100mA
28#	SBV579	88			MP10	Hall field probe;Open Circuit Hall Voltage 120mV*;Rated Control Current 100mA
29#	SBV599	88			MP9	Hall field probe;Open Circuit Hall Voltage 250mV*;Rated Control Current 50mA
30#	SV110/II	88			MP17	Hall field probe;Open Circuit Hall Voltage 1.0v* ;Rated Control Current 15mA
31#	SV110/III	88			MP17	Hall field probe;Open Circuit Hall Voltage 800mV*;Rated Control Current 25mA
32#	SV200A	88			MP19	Hall field probe;Open Circuit Hall Voltage 100mV*;Rated Control Current 20mA
33#	SV200B	88			MP20	Hall field probe;Open Circuit Hall Voltage 100mV*;Rated Control Current 20mA
34#	SV200C	88			MP21	Hall field probe;Open Circuit Hall Voltage 100mV*;Rated Control Current 20mA
35#	SV210	88			MP18	Hall field probe;Open Circuit Hall Voltage 300mV*;Rated Control Current 60mA
36#	SV230S	88			MP22	Hall field probe;Open Circuit Hall Voltage 650mV*;Rated Control Current 100mA
37#	TC21	88			MP5	Hall field probe;Open Circuit Hall Voltage 90mV**;Rated Control Current 150mA
38#	TLE4901	88	3D	Z8817	FP74	Hall-Effect Switch for Alternating Magnetic Fields;Vs -1.2 to 20v
39	UGN3013T	88	07			Hall Effect Digital Switch;Hysteresis 75 Gauss;Vsat 120mV;Out Leak Curr 0.1uA;3 Pin T Pkg
40#	UGN3019T	88	07	Z8813	MS1	Hall Effect Digital Switch;Hysteresis 120 Gauss;Vsat 150mV;Out Leak Curr 1.0uA;3 Pin T Pkg
41#	UGN3019U	88	2B	Z8813	MS44	Hall Effect Digital Switch;Hysteresis 120 Gauss typ;Vsat 100mV typ;Output Leak Curr 1.0uAΔ
42	UGN3020T	88	07			Hall Effect Digital Switch;Hysteresis 55 Gauss;Vsat 85mV;Out Leak Curr 0.1uA;3 Pin T Pkg
43#	UGN3030T	88	07	Z8813	MS1	Bipolar hall effect digit switch;Magnetic field range ±250 Gauss;Hysteresis 50 Gauss
44#	UGN3030U	88	2B	Z8813	MS44	Hall Effect Digital Switch;Hysteresis 50 Gauss typ;Vsat 100mV typ;Output Leak Curr 1.0uAΔ
45	UGN3040T	88	07	Z8813	MT56	Hall Effect;Ultra Sensitive Digital Switch;Vcc 25V;Tr 15ns typ
46#	UGN3075T	88	2B	Z8813	MS1	Hall Effect Digital Latch;Vcc 25V;Isink 50mAΔ;Hysteresis 200 Gauss;Vsat 85mV;loff 1.0uAΔ
47#	UGN3075U	88	2B	Z8813	MS44	Hall Effect Digital Latch;Vcc 25V;Isink 50mAΔ;Hysteresis 200 Gauss;Vsat 85mV;loff 1.0uAΔ
48#	UGN3076T	88	2B	Z8813	MS1	Hall Effect Digital Latch;Vcc 25V;Isink 50mAΔ;Hysteresis 200 Gauss;Vsat 85mV;loff 1.0uAΔ
49#	UGN3076U	88	2B	Z8813	MS44	Hall Effect Digital Latch;Vcc 25V;Isink 50mAΔ;Hysteresis 200 Gauss;Vsat 85mV;loff 1.0uAΔ
50	UGN3201M	88	07			Dual Output Hall Effect Digital Switch;Hysteresis 150 Gauss;Max Vsat 400mV;Max loff 100uA
51	UGN3203M	88	07			Dual Output Hall Effect Digital Switch;Hysteresis 135 Gauss;Max Vsat 400mV;Max loff 100uA
52	UGN3220S	88	07			Dual Output Hall Effect Digital Switch;Hysteresis 60 Gauss;Vsat 110mV;loff 0.1uA
53	UGN3501M	88	07	Z8811	DL8bg	Hall Effect;Linear Output Sensor;for Sensing Magnetic Field;Vcc 16V
54#	UGN3501T	88	07	Z8813	MS45	Hall Effect Sensor;Vcc 8.0V* to 12VΔ;Icc 20mAΔ;Iout 4mAΔ
55	UGN3600M	88	07		DL80	Hall Effect Sensor;Supp Volt 5V;MaxIcc 7mA;Max Control Resist 4.5kΩ;Diff Out Resist 9.0kΩΩ
56	UGN3601M	88	07		DL80	Hall Effect Sensor;Supp Volt 5V;MaxIcc 7mA;Max Control Resist 4.5kΩ;Diff Out Resist 9.0kΩ
57	UGN3604M	88	07	Z8814	DL8y	Hall effect Sensors;Vcc 7V Icc 3.0 ma
58	UGN3605M	88	07	Z8814	DL8y	Hall effect Sensors;Vcc 7V Icc 3.0 ma
59	UGN30501T	88	07	Z8812	MS1	Hall Effect Sensor;Vrange 8.0-12V;Supply Current 20mA max;Sensitivity 350mV min
60#	UGS3019T	88	4C	Z8813	MS1	Hall Effect Digital Switch;Hysteresis 120 Gauss;Vsat 150mV;Out Leak Curr 1.0uA;3 Pin T Pkg
61#	UGS3019U	88	5F	Z8813	MS44	Hall Effect Digital Switch;Hysteresis 120 Gauss typ;Vsat 100mV typ;Output Leak Curr 1.0uAΔ
62	UGS3020T	88	4C			Hall Effect Digital Switch;Hysteresis 55 Gauss;Vsat 85mV;Out Leak Curr 0.1uA;3 Pin T Pkg
63#	UGS3030T	88	4C	Z8813	MS1	Bipolar Hall Effect Digit Switch;Magnetic Field Range 250-250 Gauss;Hysteresis 50 Gauss
64#	UGS3030U	88	5C	Z8813	MS44	Hall Effect Digital Switch;Hysteresis 50 Gauss typ;Vsat 100mV typ;Output Leak Curr 1.0uAΔ
65#	UGS3075U	88	5C	Z8813	MS1	Hall Effect Digital Latch;Vcc 25V;Isink 50mAΔ;Hysteresis 200 Gauss;Vsat 85mV;loff 1.0uAΔ
66#	UGS3075U	88	5C	Z8813	MS44	Hall Effect Digital Latch;Vcc 25V;Isink 50mAΔ;Hysteresis 200 Gauss;Vsat 85mV;loff 1.0uAΔ
67#	UGS3076T	88	5C	Z8813	MS1	Hall Effect Digital Latch;Vcc 25V;Isink 50mAΔ;Hysteresis 200 Gauss;Vsat 85mV;loff 1.0uAΔ
68#	UGS3076U	88	5C	Z8813	MS44	Hall Effect Digital Latch;Vcc 25V;Isink 50mAΔ;Hysteresis 200 Gauss;Vsat 85mV;loff 1.0uAΔ
69	791	89	58		CN85a	Phase to Voltage Converter;Vi 0 to 10Vpp;Vo ± 10V;Acc. ± 3.0%;Rpl. 1.0%pp
70	3420	89	5A			Phase Detector;Min Input Volt Rng ±10V;Min Out Volt Rng 9V/Min Input Z 10kΩ
71	3421	89	58			Phase Detector;Min Input Volt Rng ±10V;Min Out Volt Rng 9V;Min Input Z 50 Ω
72#	HD14568B	89	48	Z8901		Phase-Comparator/Prog Counter;4-Bit Prog Counter;VDD 5V-15V;IDD 80uA max

13. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER
SEQUENCE

TYPE No.	MFRS	MIL-M-110 /	TYPE No.	MFRS	MIL-M-112 /	TYPE No.	MFRS	MIL-M-38510 /	TYPE No.	MFRS	MIL-M-38510 /	TYPE No.	MFRS	MIL-M-38510 /
M38510/11003BCC	none	AMEND 4 USAF	M38510/11201BCA	none	AMEND 2 USAF	M38510/10101BCA	FSC	101E AMEND 2	M38510/10102CAB	FSC	101E AMEND 2	M38510/10104BCC	FSC	101E AMEND 2
			M38510/11201BCB	none	AMEND 2 USAF	M38510/10101BCB	FSC	101E AMEND 2	M38510/10102CAC	FSC	101E AMEND 2	M38510/10104BGA	FSC	101E AMEND 2
						M38510/10101BCC	FSC RTN	101E AMEND 2	M38510/10102CCA	FSC	101E AMEND 2	M38510/10104BGB	FSC	101E AMEND 2
						M38510/10101BGA	FSC	101E AMEND 2	M38510/10102CCB	FSC	101E AMEND 2	M38510/10104BGC	FSC NSC	101E AMEND 2
						M38510/10101BGB	FSC	101E AMEND 2	M38510/10102CCC	FSC	101E AMEND 2	M38510/10104BHA	FSC	101E AMEND 2
						M38510/10101BGC	FSC NSC RTN	101E AMEND 2	M38510/10102CIA	FSC	101E AMEND 2	M38510/10104BHB	FSC	101E AMEND 2
						M38510/10101BHA	FSC	101E AMEND 2	M38510/10102CIB	FSC	101E AMEND 2	M38510/10104BHC	FSC NSC	101E AMEND 2
						M38510/10101BHB	FSC	101E AMEND 2	M38510/10102CIC	FSC NSC	101E AMEND 2	M38510/10104BPA	none	101E AMEND 2
						M38510/10101BHC	FSC NSC	101E AMEND 2	M38510/10103BCA	FSC	101E AMEND 2	M38510/10104BPB	none	101E AMEND 2
						M38510/10101BPA	none	101E AMEND 2	M38510/10103BCB	FSC SIC	101E AMEND 2	M38510/10104BPC	none	101E AMEND 2
						M38510/10101BPB	FSC	101E AMEND 2	M38510/10103BCC	FSC	101E AMEND 2	M38510/10104BPD	none	101E AMEND 2
						M38510/10101BPC	RTN	101E AMEND 2	M38510/10103BGA	FSC	101E AMEND 2	M38510/10104CCA	FSC	101E AMEND 2
						M38510/10101CCA	FSC	101E AMEND 2	M38510/10103BGB	FSC	101E AMEND 2	M38510/10104CCB	FSC	101E AMEND 2
						M38510/10101CCB	FSC	101E AMEND 2	M38510/10103BGC	FSC NSC	101E AMEND 2	M38510/10104CCC	FSC	101E AMEND 2
						M38510/10101CCC	FSC	101E AMEND 2	M38510/10103BHA	FSC	101E AMEND 2	M38510/10104CGA	FSC	101E AMEND 2
						M38510/10101CGA	FSC	101E AMEND 2	M38510/10103BHB	FSC	101E AMEND 2	M38510/10104CGB	FSC	101E AMEND 2
						M38510/10101CGB	FSC	101E AMEND 2	M38510/10103BHC	FSC NSC	101E AMEND 2	M38510/10104CGC	FSC NSC	101E AMEND 2
						M38510/10101CGC	FSC NSC RTN	101E AMEND 2	M38510/10103BPA	none	101E AMEND 2	M38510/10104CHA	FSC	101E AMEND 2
						M38510/10101CHA	FSC	101E AMEND 2	M38510/10103BPB	SIC	101E AMEND 2	M38510/10104CHB	FSC	101E AMEND 2
						M38510/10101CHB	FSC	101E AMEND 2	M38510/10103BPC	none	101E AMEND 2	M38510/10104CHC	FSC NSC	101E AMEND 2
						M38510/10101CHC	FSC NSC	101E AMEND 2	M38510/10103CCA	FSC	101E AMEND 2	M38510/10104CPA	none	101E AMEND 2
						M38510/10101CPA	none	101E AMEND 2	M38510/10103CCB	FSC SIC	101E AMEND 2	M38510/10104CPB	none	101E AMEND 2
						M38510/10101CPB	FSC	101E AMEND 2	M38510/10103CCC	FSC	101E AMEND 2	M38510/10104CPC	none	101E AMEND 2
						M38510/10101CPC	none	101E AMEND 2	M38510/10103CGA	FSC	101E AMEND 2	M38510/10105BEA	SIC	101E AMEND 2
						M38510/10102BAA	FSC	101E AMEND 2	M38510/10103CGB	FSC	101E AMEND 2	M38510/10105BEB	SIC	101E AMEND 2
						M38510/10102BAB	FSC	101E AMEND 2	M38510/10103CGC	FSC NSC	101E AMEND 2	M38510/10105BEC	RTN	101E AMEND 2
						M38510/10102BAC	FSC	101E AMEND 2	M38510/10103CHA	FSC	101E AMEND 2	M38510/10105BEC	RTN	101E AMEND 2
						M38510/10102BCA	FSC	101E AMEND 2	M38510/10103CHB	FSC	101E AMEND 2	M38510/10105CEA	SIC	101E AMEND 2
						M38510/10102BCB	FSC	101E AMEND 2	M38510/10103CHC	FSC NSC	101E AMEND 2	M38510/10105CEB	SIC	101E AMEND 2
						M38510/10102BCC	FSC	101E AMEND 2	M38510/10103CPA	none	101E AMEND 2	M38510/10107BGA	NSC	101E AMEND 2
						M38510/10102BIA	FSC	101E AMEND 2	M38510/10103CPB	SIC	101E AMEND 2	M38510/10107BGC	NSC	101E AMEND 2
						M38510/10102BIB	FSC	101E AMEND 2	M38510/10103CPC	none	101E AMEND 2	M38510/10107CGA	NSC	101E AMEND 2
						M38510/10102BIC	FSC NSC	101E AMEND 2	M38510/10104BCA	FSC	101E AMEND 2	M38510/10107CGC	NSC	101E AMEND 2
						M38510/10102CAA	FSC	101E AMEND 2	M38510/10104BCB	FSC	101E AMEND 2			

13. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/	TYPE No.	MFRS	MIL-M-38510/
M38510/10201BCA	none	102A AMEND 2	M38510/10301CHA	FSC	103B AMEND 1	M38510/10304BGC	NSC	103B AMEND 1	M38510/10602CGB	none	106A AMEND 2	M38510/10708BYC	none	107A AMEND 2
M38510/10201BCB	none	USAF 102A AMEND 2	M38510/10301CHB	FSC	USAF 103B AMEND 1	M38510/10304BHA	FSC NSC	USAF 103B AMEND 1	M38510/10602CGC	none	106A AMEND 2	M38510/10708CYA	none	107A AMEND 2
M38510/10201BCC	none	USAF 102A AMEND 2	M38510/10301CHC	FSC	USAF 103B AMEND 1	M38510/10304BHB	FSC	USAF 103B AMEND 1	M38510/10703BXA	none	107A AMEND 2	M38510/10708CYC	none	107A AMEND 2
M38510/10201BIA	none	USAF 102A AMEND 2	M38510/10302BCA	none	USAF 103B AMEND 1	M38510/10304BHC	NSC	USAF 103B AMEND 1	M38510/10703BXB	none	107A AMEND 2	M38510/10709BYA	none	107A AMEND 2
M38510/10201BIB	none	USAF 102A AMEND 2	M38510/10302BCB	none	USAF 103B AMEND 1	M38510/10304BPA	none	USAF 103B AMEND 1	M38510/10703BXC	none	107A AMEND 2	M38510/10709BYC	none	107A AMEND 2
M38510/10201BIC	none	USAF 102A AMEND 2	M38510/10302BCC	FSC	USAF 103B AMEND 1	M38510/10304BPB	none	USAF 103B AMEND 1	M38510/10703CXA	none	107A AMEND 2	M38510/10709CYA	none	107A AMEND 2
M38510/10201CCA	none	USAF 102A AMEND 2	M38510/10302BHA	none	USAF 103B AMEND 1	M38510/10304BPC	none	USAF 103B AMEND 1	M38510/10703CXB	none	107A AMEND 2	M38510/10709CYC	none	107A AMEND 2
M38510/10201CCB	FSC	USAF 102A AMEND 2	M38510/10302BHB	none	USAF 103B AMEND 1	M38510/10304CCA	FSC NSC	USAF 103B AMEND 1	M38510/10703CXC	none	107A AMEND 2	M38510/11001BCA	none	110 AMEND 2
M38510/10201CCC	FSC	USAF 102A AMEND 2	M38510/10302BHC	none	USAF 103B AMEND 1	M38510/10304CCB	AMD FSC	USAF 103B AMEND 1	M38510/10704BXA	none	107A AMEND 2	M38510/11001BCB	none	110 AMEND 2
M38510/10201CIA	FSC	USAF 102A AMEND 2	M38510/10302BIA	none	USAF 103B AMEND 1	M38510/10304CCB	AMD FSC	USAF 103B AMEND 1	M38510/10704BXC	none	107A AMEND 2	M38510/11001CCA	none	110 AMEND 2
M38510/10201CIB	FSC	USAF 102A AMEND 2	M38510/10302BIB	none	USAF 103B AMEND 1	M38510/10304CCC	FSC NSC	USAF 103B AMEND 1	M38510/10704CXA	none	107A AMEND 2	M38510/11003BCA	RTN	110 AMEND 2
M38510/10201CIC	FSC	USAF 102A AMEND 2	M38510/10302BIC	none	USAF 103B AMEND 1	M38510/10304CGA	FSC NSC	USAF 103B AMEND 1	M38510/10704CXB	none	107A AMEND 2	M38510/11003BCB	RTN	110 AMEND 2
M38510/10301BCA	FSC	USAF 103B AMEND 1	M38510/10302CCA	none	USAF 103B AMEND 1	M38510/10304CGB	FSC	USAF 103B AMEND 1	M38510/10705BXA	none	107A AMEND 2	M38510/11004BCA	none	110 AMEND 2
M38510/10301BCB	FSC	USAF 103B AMEND 1	M38510/10302CCB	none	USAF 103B AMEND 1	M38510/10304CGC	NSC	USAF 103B AMEND 1	M38510/10705BXC	none	107A AMEND 2	M38510/11004BCB	none	110 AMEND 2
M38510/10301BCC	FSC	USAF 103B AMEND 1	M38510/10302CCC	none	USAF 103B AMEND 1	M38510/10304CHA	FSC	USAF 103B AMEND 1	M38510/10705BXC	none	107A AMEND 2	M38510/11004CCB	none	110 AMEND 2
M38510/10301BGA	FSC	USAF 103B AMEND 1	M38510/10302CHA	none	USAF 103B AMEND 1	M38510/10304CHB	FSC	USAF 103B AMEND 1	M38510/10705CXA	none	107A AMEND 2	M38510/10705CXB	none	107A AMEND 2
M38510/10301BGB	FSC	USAF 103B AMEND 1	M38510/10302CHB	none	USAF 103B AMEND 1	M38510/10304CHC	NSC	USAF 103B AMEND 1	M38510/10705CXC	none	107A AMEND 2	M38510/10706BYA	none	107A AMEND 2
M38510/10301BGC	FSC	USAF 103B AMEND 1	M38510/10302CHC	none	USAF 103B AMEND 1	M38510/10304CPA	none	USAF 103B AMEND 1	M38510/10706BYC	none	107A AMEND 2	M38510/10706BYC	none	107A AMEND 2
M38510/10301BHA	FSC	USAF 103B AMEND 1	M38510/10302CIA	none	USAF 103B AMEND 1	M38510/10304CPB	none	USAF 103B AMEND 1	M38510/10706CYA	none	107A AMEND 2	M38510/10706CYC	none	107A AMEND 2
M38510/10301BHB	FSC	USAF 103B AMEND 1	M38510/10302CIB	none	USAF 103B AMEND 1	M38510/10304CPC	none	USAF 103B AMEND 1	M38510/10706CYC	none	107A AMEND 2	M38510/10707BYA	none	107A AMEND 2
M38510/10301BHC	FSC	USAF 103B AMEND 1	M38510/10302CIC	none	USAF 103B AMEND 1	M38510/10602BGA	none	USAF 106A AMEND 3	M38510/10707BYC	none	107A AMEND 2	M38510/10707BYC	none	107A AMEND 2
M38510/10301CCA	FSC	USAF 103B AMEND 1	M38510/10304BCA	FSC NSC	USAF 103B AMEND 1	M38510/10602BGB	none	USAF 106A AMEND 3	M38510/10707CYA	none	107A AMEND 2	M38510/10707CYC	none	107A AMEND 2
M38510/10301CCB	FSC	USAF 103B AMEND 1	M38510/10304BCB	AMD FSC	USAF 103B AMEND 1	M38510/10602BGC	none	USAF 106A AMEND 3	M38510/10707CYC	none	107A AMEND 2			
M38510/10301CCC	FSC	USAF 103B AMEND 1	M38510/10304BCC	FSC NSC	USAF 103B AMEND 1	M38510/10602CGA	none	USAF 106A AMEND 3						
M38510/10301CGA	FSC	USAF 103B AMEND 1	M38510/10304BGA	FSC NSC	USAF 103B AMEND 1									
M38510/10301CGB	FSC	USAF 103B AMEND 1	M38510/10304BGB	FSC	USAF 103B AMEND 1									
M38510/10301CGC	FSC	USAF 103B AMEND 1			USAF									

13 TYPES WITH U.S. MILITARY SPECIFICATIONS

MILITARY DOCUMENTS

Department of Defense Index of Specifications and Standards dated 1 July 1976,

Supplement dated 1 November 1976.

Device Manufacturers Qualifications on Test Reference Letter.

MIL-M-38510D Military Specification General Specification for Microcircuits, dated 31 August 1977, Amendment 1, dated 21 July 1978, Supplement 1B, dated 31 October 1978.

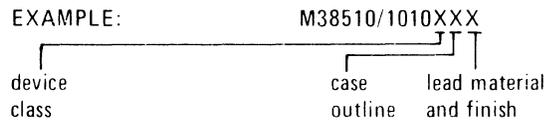
QPL-38510-42 Qualified Products List (Part I) of Products Qualified Under Military Specification MIL-M-38510, dated 4 January 1980.
Qualified Products List (Part II) of Products Qualified Under Military Specification MIL-M-38510, dated 28 September 1979. These products are considered qualified Products. Therefore, manufacturers listed on QPL-38510 shall "JAN" mark and ship the specific part numbered devices for which they are listed, providing all required quality conformance inspections have been successfully completed. They have not been subjected to all the tests required for qualification under the latest effective issue of MIL-M-38510, however, the manufacturers have performed sufficient similar tests to indicate that the products have the potential of complying with the MIL-M-38510 requirements.

MIL-STD-833B Military Standard; Test Methods and Procedures for Microelectronics, dated 31 August 1977, Notice 1, dated 21 July 1978.

MIL-STD-1562; List of Standard Microcircuits dated 15 April 1977, Notice 2, dated 11 January 1978.

NOTE: The 3-letter suffix at the end of the type number represents device class (degree of quality assurance testing), case outline and lead material finish as shown below:

Only types with actual or previous sources of supply are listed in this edition.



12B. COMMERCIAL-TO-MILITARY TYPE NUMBER CROSS-REFERENCE

COMMERCIAL TYPE No.	MILITARY TYPE No.	COMMERCIAL TYPE No.	MILITARY TYPE No.
	M38510/		M38510/
710	10301	LM109	10701
711	10302	LM110	10602
723	10201	LM111	10304
741	10101	LM118	10107
747	10102	LM124	11005
3018A	10801	LM140K-05	10706
3045	10802	LM140K-12	10707
4136	11004	LM140K-15	10708
4141,4156	11003	LM140K-24	10709
LH2101A	10105	LM141H-05	10702
LH2108A	10106	LM141H-12	10703
LH2110	10603	LM141H-15	10704
LH2111	10305	LM141H-24	10705
LM101A	10103	LM148	11001
LM102	10601	LM149	11002
LM106	10303	LM723	10201
LM108A	10104		

13a. DIRECT REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
AD741JH	OP02CJ	PMI	CA307	LM307	TII	CA1458S	MC1458CP1	MOTA	LF257H (Cont'd)	OP-17BJ	PMI	LM101A	LM101A	TII
AD741JN	OP02CP	PMI	CA307T	LM307H	MOTA	CA1458T	MC1458G	MOTA	LF347AN	MC34004AP	MOTA	LM107	LM107	TII
AD741LH	OP02EJ	PMI	CA308AS	LM308N	MOTA		uA1458H	SIC	LF347BN	MC34004BP	MOTA	LM108AH	PM108AJ	PMI
AD741LN	OP02EP	PMI	CA308AT	LM308AH	MOTA		OP-14DJ	PMI	LF347N	MC34004P	MOTA	LM108H	OP-08AJ	PMI
AD741SH	OP02AJ	PMI	CA308S	LM308H	MOTA	CA1558	OP-14CJ	PMI	LF351AH	MC34004P	MOTA	LM108H	OP-08BJ	PMI
AMLM101	LM101AH	MOTA	CA311	LM311	TII	CA1558T	MC1558	TII	LF351AN	MC34001AG	MOTA	LM108H	PM108AJ	PMI
AMLM101A	LM101AH	MOTA	CA324	LM324	TII		uA1558H	SIC	LF351AN	MC34001AP	MOTA	LM108H	PM108J	PMI
AMLM105	LM105H	MOTA	CA339	LM339	TII	CA2100	PM1558	PMI	LF351BH	MC34001BG	MOTA	LM111	OP-08BJ	PMI
AMLM105H	LM105H	MOTA	CA339AE	LM339AN	MOTA	CA2100R	OP-14BJ	PMI	LF351BN	MC34001BP	MOTA	LM111	LM111	TII
AMLM107	LM107H	MOTA	CA339AG	LM339AJ	MOTA	CA2111AE	MHW1171	MOTA	LF351N	MC34001G	MOTA	LM124	LM124	TII
AMLM111D	LM111J	MOTA	CA339E	LM339N	MOTA	CA2111AQ	MHW1171R	MOTA	LF353AH	MC34001P	MOTA	LM139	LM139	TII
AMLM111H	LM111H	MOTA	CA339G	LM339J	MOTA	CA2200	MC1357P	MOTA	LF353AN	MC34002AG	MOTA	LM148	LM148	TII
AMLM201	LM201AH	MOTA	CA358	LM358	TII	CA2200R	MC1357PQ	MOTA	LF353BH	MC34002AP	MOTA	LM148J	OP11AY	PMI
AMLM201A	LM201AH	MOTA	CA418	MHW1182	MOTA	CA2300	MHW1172	MOTA	LF353H	MC34002BP	MOTA	LM158	LM158	TII
AMLM205	LM205H	MOTA	CA636	MHW1342	MOTA	CA2418	MHW1172R	MOTA	LF353N	MC34002G	MOTA	LM158AH	OP220AJ	PMI
AMLM205H	LM205H	MOTA	CA723	UA723M	TII	CA2600	MHW1122	MOTA	LF353N	MC34002P	MOTA	LM158H	OP220BJ	PMI
AMLM207	LM207H	MOTA	CA723C	UA723C	TII	CA2600H	MHW1222	MOTA	LF355AH	OP15EJ	PMI	LM193	LM193	TII
AMLM211D	LM211J	MOTA	CA723CE	MC1723CP	MOTA	CA2600S	MHW1222	MOTA	LF355AH	PM355AJ	PMI	LM201A	LM201A	TII
AMLM211H	LM211H	MOTA	CA741	uA723CN	SIC	CA2700	MHW1342	MOTA	LF355H	OP-15EJ	PMI	LM207	LM207	TII
AMLM301	LM301AH	MOTA	CA741C	UA741M	TII	CA2810	MHW1392	MOTA	LF355N	PM355J	PMI	LM208H	PM208J	PMI
AMLM301A	LM301AH	MOTA	CA741CS	UA741C	TII	CA2810H	MHW1392	MOTA	LF355N	OP-15GJ	PMI	LM208H	OP-08BJ	PMI
AMLM305	LM305H	MOTA	CA741CT	MC1741CP1	MOTA	CA2818	MHW1392	MOTA	LF356AH	OP-16EJ	PMI	LM208H	OP-08EJ	PMI
AMLM305H	LM305AH	MOTA	CA741CT	MC1741CG	MOTA	CA2820	MHW1182	MOTA	LF356AH	PM356AJ	PMI	LM211	LM211	TII
AMLM311D	LM311J-8	MOTA	CA741CT	PM741CJ	PMI	CA2820H	MHW1182	MOTA	LF356N	OP-16GJ	PMI	LM217	LM217	TII
AMLM311H	LM311H	MOTA	CA741S	OP-02CJ	PMI	CA2830	MHW590	MOTA	LF357AH	PM356AJ	PMI	LM218	LM218	TII
BGY36	MHW612A	MOTA	CA741T	MC1741U	MOTA	CA2840	MHW592	MOTA	LF357H	OP-17EJ	PMI	LM224	LM224	TII
CA101A	LM101A	TII	CA741T	MC1741G	MOTA	CA2850	MHW1222	MOTA	LF357H	PM357AJ	PMI	LM239	LM239	TII
CA101AT	LM101AH	MOTA	CA747	PM741J	PMI	CA2870	MHW1182	MOTA	LF357N	OP-17GJ	PMI	LM239D	LM239	TII
CA101T	LM101AH	MOTA	CA747C	OP-02BJ	PMI	CA2875	MHW1342	MOTA	LM248	PM357Z	PMI	LM248	CMP04FY	PMI
CA107T	LM107H	MOTA	CA747C	UA747M	TII	CA2875H	MHW1182	MOTA	LM248	MC78L05ACH	MOTA	LM248	LM248	TII
CA108AS	LM108AJ-8	MOTA	CA747CE	UA747C	TII	CA2875H	MHW1221	MOTA	LM258	MC78L05ACG	MOTA	LM258	LM258	TII
CA108AT	LM108AH	MOTA	CA747CE	MC1747CL	MOTA	CA3046	MHW1221	MOTA	LM293	MC78L05ACP	MOTA	LM293	LM293	TII
CA108S	LM1108J-8	MOTA	CA747CE	OP-03CK	PMI	CA3056	MC3346P	MOTA	LM301A	MC78L05ACZ	MOTA	LM301A	LM301A	TII
CA108T	LM108H	MOTA	CA747CT	OP-03CY	PMI	CA3056H	MC1741CG	MOTA	LM307	UA78L05C	TII	LM307	LM307	TII
CA111	LM111	TII	CA747CT	MC1747CL	MOTA	CA3056A	uA747CF	SIC	LM308AH	MC78L05CG	MOTA	LM308AH	PM308AJ	PMI
CA124	LM124	TII	CA747CT	uA747CF	SIC	CA3056A	MC1741G	MOTA	LM308H	MC78L05CP	MOTA	LM308H	OP-08EJ	PMI
CA139	LM139	TII	CA747E	MC1747CG	MOTA	CA3064E	MC1364P	MOTA	LM308H	MC78L08ACH	MOTA	LM308H	OP-08FJ	PMI
CA139AG	LM139AJ	MOTA	CA747E	uA747CH	SIC	CA3065	MC1358P	MOTA	LM308H	MC78L08ACZ	MOTA	LM308H	OP-08FJ	PMI
CA139G	LM139J	MOTA	CA747E	MC1747L	MOTA	CA3086	MC3386P	MOTA	LM308H	MC78L08ACP	MOTA	LM308H	PM308AJ	PMI
CA158	LM158	TII	CA747F	PM747Y	PMI	CA3302E	MC3302P	MOTA	LM308H	UA78L08C	TII	LM308H	PM308J	PMI
CA201A	LM201A	TII	CA747F	OP-03BY	PMI	L200E	MC3302P	MOTA	LM308H	MC78L08CH	MOTA	LM308H	OP-08FJ	PMI
CA207T	LM207H	MOTA	CA747T	MC1747L	MOTA	L200E3	MC3401P	MOTA	LM308H	MC78L08CG	MOTA	LM308H	OP-08FJ	PMI
CA208AT	LM208AH	MOTA	CA747T	uA747F	SIC	L200E5	MAC96A4	MOTA	LM308H	MC78L08CZ	MOTA	LM308H	PM308AP	PMI
CA208S	LM208J-8	MOTA	CA747T	MC1747G	MOTA	L200E7	MAC95A4	MOTA	LM308H	MC78L08CP	MOTA	LM308H	PM308AP	PMI
CA208T	LM208H	MOTA	CA747T	uA747H	SIC	L200E9	MAC94-4	MOTA	LM308H	MC78L08CP	MOTA	LM308H	PM308AP	PMI
CA211	LM211	TII	CA747T	PM-747K	PMI	LF155AH	OP15AJ	PMI	LM311	MC78L08CP	MOTA	LM311	LM311	TII
CA224	LM224	TII	CA747T	OP-03BK	PMI	LF155AH	PM155AJ	PMI	LM317	MC78L08CP	MOTA	LM317	LM317	TII
CA239	LM239	TII	CA748	CA748M	TII	LF155AH	OP-15AJ	PMI	LM318	MC78L12ACZ	MOTA	LM318	LM318	TII
CA239AE	LM239AJ	MOTA	CA748C	UA748M	TII	LF155AH	OP-15AJ	PMI	LM320-5	MC78L12ACP	MOTA	LM320-5	LM318	TII
CA239AG	LM239AJ	MOTA	CA748C	MC1748CP1	MOTA	LF155AH	OP15BJ	PMI	LM320-6	UA78L12C	TII	LM320-6	UA7905C	TII
CA239E	LM239N	MOTA	CA748C	MC1748CG	MOTA	LF155H	PM155J	PMI	LM320-8	MC78L12CG	MOTA	LM320-8	UA7906C	TII
CA239G	LM239J	MOTA	CA748S	MC1748S	MOTA	LF155H	OP-15BJ	PMI	LM320-8	MC78L12CP	MOTA	LM320-8	UA7908C	TII
CA258	LM258	TII	CA748T	MC1748U	MOTA	LF156AH	OP15BJ	PMI	LM320-12	MC78L15ACH	MOTA	LM320-12	UA7912C	TII
CA301A	LM301A	TII	CA801	MHW590	MOTA	LF156AH	PM155J	PMI	LM320-15	MC78L15ACG	MOTA	LM320-15	UA7915C	TII
CA301AT	LM301AH	MOTA	CA801	OP-03BK	PMI	LF156AH	OP-15BJ	PMI	LM320-24	UA78L15C	TII	LM320-24	UA7924C	TII
			GA804	MC1748G	MOTA	LF156H	OP16AJ	PMI	LM324	PM156AJ	PMI	LM324	LM324	TII
			CA860	MHW590	MOTA	LF156H	OP-16AJ	PMI	LM324A	OP-16AJ	PMI	LM324A	LM324A	TII
			CA870	MHW590	MOTA	LF156H	OP16BJ	PMI	LM337	PM156J	PMI	LM337	LM337	TII
			CA1310E	MC1310P	MOTA	LF157AH	OP-16BJ	PMI	LM339	OP-16BJ	PMI	LM339	LM339	TII
			CA1352E	MC1352P	MOTA	LF157AH	OP17AJ	PMI	LM339A	PM157AJ	PMI	LM339A	LM339A	TII
			CA1391E	MC1391P	MOTA	LF157H	OP-17AJ	PMI	LM339AD	OP-17AJ	PMI	LM339AD	LM339AD	TII
			CA1394E	MC1394P	MOTA	LF255H	OP17BJ	PMI	LM339AN	PM157J	PMI	LM339AN	CMP04FY	PMI
			CA1398E	MC1398P	MOTA	LF255H	OP17AJ	PMI	LM339D	OP-17AJ	PMI	LM339D	CMP04FP	PMI
			CA1458	MC1458	TII	LF257H	PM255J	PMI	LM339N	OP-15BJ	PMI	LM339N	CMP04FY	PMI
						LF257H	OP-15BJ	PMI	LM339N	PM257J	PMI	LM339N	CMP04FP	PMI

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Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code			
MC1741	UA741M	TII	MC3503	MC3503	TII	MLM301API	LM301AN	NSC	PM255J	LF255H	NSC	RC1437D	MC1437L	MOTA
MC1741C	UA741C	TII	MC7805C	UA7805C	TII	MLM304G	LM304H	NSC	PM256J	LF256H	NSC	RC1437DP	MC1437P	MOTA
MC1741CG	LM741CH	NSC	MC7806C	UA7806C	TII	MLM305G	LM305H	NSC	PM257J	LF257H	NSC	RC1458	MC1458	TII
	OP01CJ	PMI	MC7808C	UA7808C	TII	MLM307G	LM307H	NSC	PM308AJ	LM308AH	NSC	RC1458DN	MC1458P1	MOTA
	OP-02CJ	PMI	MC7812C	UA7812C	TII	MLM307PI	LM307N	NSC	PM308J	LM308H	NSC	RC1458T	MC1458G	MOTA
	OP-02DJ	PMI	MC7815C	UA7815C	TII	MLM307U	LM307J	NSC	PM355AJ	LF355AH	NSC	RC1458T	MC1458H	PMI
MC1741CL	LM741CJ-14	NSC	MC7818C	UA7818C	TII	MLM308AG	LM308AH	NSC	PM355J	LF355H	NSC	RC1488DC	MC1488L	MOTA
	OP-02CY	PMI	MC7824C	UA7824C	TII	MLM308AL	LM308AJ	NSC	PM356AJ	LF356AH	NSC	RC1489ADC	MC1489AL	MOTA
	OP-02DY	PMI	MC7905C	UA7905C	TII	MLM308API	LM308AN	NSC	PM356J	LF356H	NSC	RC1489DC	MC1489L	MOTA
MC1741CP1	LM741CN	NSC	MC7906C	UA7906C	TII	MLM308AU	LM308AJ-8	NSC	PM357AJ	LF357AH	NSC	RC1556T	MC1456CG	MOTA
	OP01CP	PMI	MC7908C	UA7908C	TII	MLM308G	LM308H	NSC	PM357J	LF357H	NSC	RC3302DB	MC3302P	MOTA
MC1741CP2	LM741CN-14	NSC	MC7912C	UA7912C	TII	MLM308L	LM308J	NSC	PM725CJ	LM725CH	NSC	RC4444R	MC3416L	MOTA
MC1741CU	OP01CZ	PMI	MC7915C	UA7915C	TII	MLM308P	LM308N	NSC	PM725J	LM725H	NSC	RC4558DN	MC4558CP1	MOTA
MC1741G	LM741H	NSC	MC7924C	UA7924C	TII	MLM308U	LM308J-8	NSC	PM741CJ	LM741CH	NSC	RC4558JG	MC4558CU	MOTA
	OP01J	PMI	MHW590	MHW1342	MOTA	MLM309G	LM309H	NSC	PM741J	LM741H	NSC	RC4558L	MC4558CG	MOTA
	PM741J	PMI	MHW594	MHW1171	MOTA	MLM309K	LM309K	NSC	PM747CJ	LM747CH	NSC	RC4558P	MC4558CP1	MOTA
	OP-02BJ	PMI	MHW595	MHW1172	MOTA	MLM310G	LM310H	NSC	PM747J	LM747H	NSC	RC4558T	MC4558CG	MOTA
MC1741J	LM741J-14	NSC	MLM101AG	LM101AH	NSC	MLM310I	LM310N	NSC	PM1558J	LM1558H	NSC	RM702Q	MC1712F	MOTA
	LM741Y	PMI	MLM101AU	LM101AJ	NSC	MLM310U	LM310J-8	NSC	RC702T	MC1712CG	MOTA	RM702T	MC1712G	MOTA
	OP-02BY	PMI	MLM107G	LM107H	NSC	MLM311G	LM311H	NSC	RC709	UA709C	TII	RM709	UA709M	TII
MC1741K	OP01HJ	PMI	MLM107U	LM107J	NSC	MLM311L	LM311J	NSC	RC709D	MC1709CL	MOTA	RM709D	MC1709L	MOTA
MC1741NCP1	OP01HZ	PMI	MLM108AG	LM108AH	NSC	MLM311P	LM311N	NSC	RC709DN	MC1709CP1	MOTA	RM709Q	MC1709F	MOTA
MC1741NCU	OP01FZ	PMI	MLM108AU	LM108AJ	NSC	MLM311U	LM311L-8	NSC	RC709DP	MC1709CP2	MOTA	RM709T	MC1709G	MOTA
MC1741NG	OP01J	PMI	MLM109G	LM109H	NSC	MLM324L	LM324J	NSC	RC709T	MC1709CG	MOTA	RM710	UA710M	TII
MC1741NL	OP01Y	PMI	MLM110G	LM110H	NSC	MLM324P	LM324N	NSC	RC710	UA710C	TII	RM710D	MC1710L	MOTA
MC1741NU	OP01Z	PMI	MLM110U	LM110J-8	NSC	MLM324R	LM324N	NSC	RC710DC	MC1710CL	MOTA	RM710T	MC1710G	MOTA
MC1741U	LM741J	NSC	MLM111G	LM111H	NSC	MLM339AL	LM339AJ	NSC	RC710DP	MC1710CP	MOTA	RM711	UA711M	TII
MC1747	UA747M	TII	MLM111L	LM111J	NSC	MLM339AP	LM339AN	NSC	RC710T	MC1710CG	MOTA	RM711DC	MC1711L	MOTA
MC1747C	UA747C	TII	MLM111U	LM111J-8	NSC	MLM339J	LM339J	NSC	RC711	UA711C	TII	RM711T	MC1711G	MOTA
MC1747CG	LM747CH	NSC	MLM124L	LM124J	NSC	MLM339P	LM339N	NSC	RC711DC	MC1711CL	MOTA	RM723	UA723M	TII
	OP04EJ	PMI	MLM124P	LM124N	NSC	MLM358G	LM358H	NSC	RC711DP	MC1711CP	MOTA	RM723D	MC1723L	MOTA
MC1747CL	LM747CJ	NSC	MLM139AL	LM139AJ	NSC	MLM358P	LM358N	NSC	RC711T	MC1711CG	MOTA	RM723T	MC1723G	MOTA
	OP04EY	PMI	MLM139L	LM139J	NSC	MLM565CP	LM565CN	NSC	RC723	UA723C	TII	RM725T	PM255J	PMI
MC1747CP2	LM747CN	NSC	MLM158G	LM158H	NSC	NE532	LM358	TII	RC723D	MC1723CL	MOTA	RM733D	SSS725J	PMI
	OP04EY	PMI	MLM201AG	LM201AH	NSC	NE555JG	MC1455U	MOTA	RC723T	MC1723CG	MOTA	RM733T	MC1733L	MOTA
MC1747G	LM747H	NSC	MLM201AP1	LM201AN	NSC	NE555L	MC1455G	MOTA	RC725T	PM255CJ	PMI	RM741	UA741M	TII
	OP04AY	PMI	MLM204G	LM204H	NSC	NE555T	MC1455P1	MOTA	RC733	SSS725CJ	PMI	RM741D	MC1741L	MOTA
MC1747J	LM747J	NSC	MLM205G	LM205H	NSC	NE555V	MC1455G	MOTA	RC733D	UA733C	TII	RM741DP	MC1741P	MOTA
	OP04AY	PMI	MLM207G	LM207H	NSC	NE556A	MC1455P1	MOTA	RC733T	MC1733CL	MOTA	RM741Q	MC1741F	MOTA
MC1748	UA748M	TII	MLM207U	LM207J	NSC	NE556B	MC3456P	MOTA	RC741	MC1733CG	MOTA	RM741T	MC1741G	MOTA
MC1748C	UA748C	TII	MLM208AG	LM208AH	NSC	NE556C	MC3456L	MOTA	RC741D	UA741C	TII	RM741T	MC1741J	PMI
MC1748CG	LM748CH	NSC	MLM208AJ	LM208AJ	NSC	NE556D	MC565N	MOTA	RC741DN	MC1741CP1	MOTA	RM747	UA747M	TII
MC1748CP1	LM748CN	NSC	MLM208AU	LM208AJ-8	NSC	NE5532	NE5532	TII	RC741DP	MC1741CP2	MOTA	RM747D	MC1747L	MOTA
MC1748CU	LM748CJ	NSC	MLM208G	LM208H	NSC	NE5532A	NE5532A	TII	RC741Q	OP02CP	PMI	RM747T	MC1747G	MOTA
MC1748G	LM748H	NSC	MLM208J	LM208J	NSC	NE5533	NE5533	TII	RC741T	MC1741CF	MOTA	RM748	UA748M	TII
MC1748U	LM748J	NSC	MLM208L	LM208J-8	NSC	NE5533A	NE5533A	TII	RC741T	MC1741CG	MOTA	RM748T	MC1748G	MOTA
MC1776CG	OP22HJ	PMI	MLM209G	LM209H	NSC	NE5534	NE5534	TII	RC747	OP02DJ	PMI	RM1514DC	MC1514L	MOTA
	OP22HZ	PMI	MLM211G	LM211H	NSC	NE5534A	NE5534A	TII	RC747T	OP-02CJ	PMI	RM1537D	MC1537L	MOTA
MC1776CP1	OP22HJ	PMI	MLM211J	LM211J	NSC	PM155AJ	LF155AH	NSC	RC747T	OP-02DJ	PMI	RM1558	MC1558	TII
	OP22HZ	PMI	MLM211U	LM211J-8	NSC	PM155J	LF155H	NSC	RC747T	MC1747CG	MOTA	RM1558T	MC1558H	PMI
MC1776G	OP22AJ	PMI	MLM224L	LM224J	NSC	PM156AJ	LF156AH	NSC	RC747T	OP-03CK	PMI	RM1558T	PM1558J	PMI
	OP22AZ	PMI	MLM224R	LM224J	NSC	PM156J	LF156H	NSC	RC747T	OP-04CK	PMI	RM4136	RM4136	TII
MC1776U	OP22AZ	PMI	MLM239AL	LM239AJ	NSC	PM157AJ	LF157AH	NSC	RC748T	MC1748CG	MOTA	RM4558	RM4558	TII
MC2901P	LM2901N	NSC	MLM239J	LM239J	NSC	PM208AJ	LM258H	NSC	RC1414DC	MC1414L	MOTA	RM4558D	MC4558U	MOTA
MC2902P	LM2902N	NSC	MLM239L	LM239L	NSC	PM208J	LM208H	NSC	RC1414DP	MC1414P	MOTA			
MC3301P	LM3301N	NSC	MLM258G	LM258H	NSC									
MC3302	LM3302	TII	MLM301AG	LM301AH	NSC									
MC3302P	LM3302N	NSC												
MC3303	MC3303	TII												
MC3401P	LM3401N	NSC												
MC3403	MC3403	TII												
MC3423	MC3423	TII												
MC3446	MC3446	TII												
MC3486	MC3486	TII												
MC3487	MC3487	TII												

13a. DIRECT REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
RM4558JG	MC4558U	MOTA	SG301AT	LM301AH	MOTA	SG7812CK	MC7812CK	MOTA	uA78M18HC	MC78M18CG	MOTA	uA302HC	LM302H	NSC
RM4558L	MC4558G	MOTA	SG304T	LM304H	MOTA	SG7815CK	MC7815CK	MOTA	uA78M18UG	MC78M18CT	MOTA	uA304HC	LM304H	MOTA
RM4558T	MC4558G	MOTA	SG305T	LM305H	MOTA	SG7818CK	MC7818CK	MOTA	uA78M20CKC	MC78M20CT	MOTA	uA305HC	LM305H	MOTA
RM55107AD	MC55107L	MOTA	SG307M	LM307N	MOTA	SG7824CK	MC7824CK	MOTA	uA78M20HC	MC78M20CG	MOTA	UA307	LM307	TII
RM55325DD	MC55325L	MOTA	SG307T	LM307H	MOTA	UA78L02C	UA78L02C	TII	uA78M20UG	MC78M20CT	MOTA	uA307H	LM307H	MOTA
SE532	LM158	TII	SG308AJ	LM308AJ	MOTA	UA78L05AC	UA78L05AC	TII	uA78M24CKC	MC78M24CT	MOTA	uA307HC	LM307H	NSC
SE555JG	MC1555U	MOTA	SG308AM	LM308AN	MOTA	uA78L05ACPL	MC78L05ACP	MOTA	uA78M24HCL	MC78M24CG	MOTA	uA307T	LM307H	MOTA
SE555L	MC1555G	MOTA	SG308AT	LM308AH	MOTA	uA78L05AHC	MC78L05ACG	MOTA	uA78M24UG	MC78M24CT	MOTA	uA308AD	LM308AJ	MOTA
SE555T	MC1555G	MOTA	SG308J	LM308J	MOTA	uA78L05AWC	MC78L05ACP	MOTA	uA79M05CKC	MC7905CT	MOTA	uA308AH	LM308AH	MOTA
SE556A	MC3556L	MOTA	SG308M	LM308N	MOTA	UA78L05C	UA78L05C	TII	uA79M06CKC	MC7906CT	MOTA	uA308AHC	LM308AH	NSC
SE592A	SE592L	MOTA	SG308T	LM308H	MOTA	uA78L05CLP	MC78L05CP	MOTA	uA79M08CKC	MC7908CT	MOTA	uA308D	LM308J	MOTA
SE592K	SE592G	MOTA	SG309K	LM309K	MOTA	uA78L05HC	MC78L05CG	MOTA	uA79M12CKC	MC7912CT	MOTA	uA308H	LM308H	MOTA
SE5534	SE5534	TII	SG309T	LM309H	MOTA	uA78L05WC	MC78L05CP	MOTA	uA79M15CKC	MC7915CT	MOTA	uA308HC	LM308H	NSC
SG101AT	LM101AH	MOTA	SG311D	LM311J	MOTA	UA78L06AC	UA78L06AC	TII	UA101A	LM101A	TII	uA309KC	LM309K	MOTA
SG101T	LM101AH	MOTA	SG311M	LM311N	MOTA	uA78L06ACPL	MC78L06ACP	MOTA	uA101AH	LM101AH	MOTA	uA309KC	LM309K	NSC
SG102-01	MC404L	MOTA	SG311T	LM311H	MOTA	UA78L06C	UA78L06C	TII	uA101AHM	LM101AH	NSC	uA310HC	LM310H	NSC
SG105T	LM105H	MOTA	SG320K-05	LM320K-5.0	MOTA	uA78L06CLP	MC78L06CP	MOTA	uA101H	LM101AH	MOTA	UA311	LM311	TII
SG107T	LM107H	MOTA	SG320K-12	LM320K-12	MOTA	UA78L08AC	UA78L08AC	TII	uA102HM	LM102H	NSC	uA311HC	LM311H	NSC
SG108AJ	LM108AJ	MOTA	SG320K-15	LM320K-15	MOTA	uA78L08ACPL	MC78L08ACP	MOTA	uA104HM	LM104H	MOTA	uA311R	LM311J-8	NSC
SG108AT	LM108AH	MOTA	SG320T-05	LM320T-5.0	MOTA	UA78L08C	UA78L08C	TII	LM104H	LM104H	NSC	uA311T	LM311N	MOTA
SG108J	LM108J	MOTA	SG320T-12	LM320T-12	MOTA	uA78L08CLP	MC78L08CP	MOTA	uA105HM	LM105H	MOTA	uA311TC	LM311N	NSC
SG108T	LM108H	MOTA	SG320T-15	LM320T-15	MOTA	UA78L09AC	UA78L09AC	TII	LM105H	LM105H	NSC	uA324PC	LM324N	NSC
SG109K	LM109K	MOTA	SG324J	LM324J	MOTA	UA78L09AC	UA78L09AC	TII	uA107H	LM107H	MOTA	uA339APC	LM339AN	NSC
SG109T	LM109H	MOTA	SG324N	LM324N	MOTA	UA78L10AC	UA78L10AC	TII	uA108AD	LM108AJ	MOTA	uA339PC	LM339N	NSC
SG111D	LM111J	MOTA	SG1436CT	MC1436CG	MOTA	UA78L10C	UA78L10C	TII	uA108AF	LM108AF	MOTA	UA376	LM376	TII
SG111T	LM111H	MOTA	SG1436M	MC1436U	MOTA	UA78L10C	UA78L10C	TII	uA108AH	LM108AH	MOTA	uA376TC	LM376N	NSC
SG120K-05	LM120K-05	MOTA	SG1496D	MC1496L	MOTA	uA78L12AC	UA78L12AC	TII	uA108AHM	LM108AH	NSC	uA555HC	LM555CH	NSC
SG120K-12	LM120K-12	MOTA	SG1496T	MC1496G	MOTA	uA78L12ACPL	MC78L12ACP	MOTA	uA108D	LM108J	MOTA	uA555HM	LM555H	NSC
SG120K-15	LM120K-15	MOTA	SG1501D	MC1501D	MOTA	uA78L12AHC	MC78L12ACG	MOTA	uA108F	LM108J	MOTA	uA555TC	LM555CN	NSC
SG120T-05	LM120T-05	MOTA	SG1501T	MC1501T	MOTA	uA78L12AHC	MC78L12ACG	MOTA	uA108H	LM108H	MOTA	uA556PC	LM556CN	NSC
SG120T-12	LM120T-12	MOTA	SG1503	MC1503U	MOTA	UA78L12C	UA78L12C	TII	uA108HM	LM108H	NSC	uA702DC	MC1712CL	MOTA
SG120T-15	LM120T-15	MOTA	SG1524	SG1524	TII	uA78L12CLP	MC78L12CP	MOTA	uA109KM	LM109K	MOTA	uA702DM	MC1712L	MOTA
SG140K-05	LM140K-5.0	MOTA	SG1536T	MC1536G	MOTA	uA78L12HC	MC78L12CG	MOTA	uA110HM	LM110H	NSC	uA702FM	MC1712F	MOTA
SG140K-06	LM140K-6.0	MOTA	SG1556T	MC1556G	MOTA	uA78L12WC	MC78L12CP	MOTA	UA111	LM111	TII	uA702HC	MC1712CG	MOTA
SG140K-08	LM140K-8.0	MOTA	SG1558T	MC1558G	MOTA	uA78L15ACPL	MC78L15ACP	MOTA	uA111HM	LM111H	NSC	uA702HM	MC1712G	MOTA
SG140K-12	LM140K-12	MOTA	SG1595D	MC1595L	MOTA	uA78L15AHC	MC78L15ACG	MOTA	uA111RM	LM111J-8	NSC	uA702MJ	MC1712L	MOTA
SG140K-15	LM140K-15	MOTA	SG1596D	MC1596L	MOTA	uA78L15AHC	MC78L15ACG	MOTA	UA139	LM139	TII	uA702ML	MC1712G	MOTA
SG140K-18	LM140K-18	MOTA	SG1596T	MC1596G	MOTA	uA78L15CLP	MC78L15CP	MOTA	UA201A	LM201A	TII	UA709	UA709M	TII
SG140L-24	LM140K-24	MOTA	SG2310-1	MC2310-1	MOTA	uA78L15HC	MC78L15CG	MOTA	uA201AH	LM201AH	MOTA	uA709ADM	MC1709AL	MOTA
SG201AM	LM201AN	MOTA	SG2501D	MC2501D	MOTA	uA78L15WC	MC78L15CP	MOTA	uA201H	LM201AH	MOTA	uA709AFM	MC1709AF	MOTA
SG201AT	LM201AH	MOTA	SG2501N	MC2501N	MOTA	uA78M05CKC	MC78M05CT	MOTA	uA207H	LM207H	MOTA	uA709AHM	MC1709AG	MOTA
SG201M	LM201AN	MOTA	SG2501T	MC2501T	MOTA	uA78M05CKC	MC78M05CT	MOTA	uA207HM	LM207H	NSC	uA709AHM	MC1709AG	NSC
SG201T	LM201AH	MOTA	SG2503	MC2503	MOTA	uA78M05HC	MC78M05CG	MOTA	uA208AD	LM208AJ	MOTA	uA709AMJ	MC1709AH	MOTA
SG205T	LM205H	MOTA	SG2524	MC2524	TII	uA78M05HC	MC78M05CG	MOTA	uA208AF	LM208AF	MOTA	uA709AMJ	MC1709AU	MOTA
SG207T	LM207H	MOTA	SG3501AD	MC3501AD	TII	uA78M06CKC	MC78M06CT	MOTA	uA208AF	LM208AF	MOTA	uA709AMJ	MC1709AG	MOTA
SG208AJ	LM208AJ	MOTA	SG3501AT	MC3501AT	MOTA	uA78M06HC	MC78M06CG	MOTA	uA208AH	LM208AH	MOTA	uA709AT	LM709AH	NSC
SG208AM	LM208AJ-8	MOTA	SG3501D	MC3501D	MOTA	uA78M06UC	MC78M06CT	MOTA	uA208AHM	LM208AH	NSC	UA709C	UA709C	TII
SG208AT	LM208AH	MOTA	SG3501N	MC3501N	MOTA	uA78M08CKC	MC78M08CT	MOTA	uA208D	LM208J	MOTA	uA709CJ	MC1709CL	MOTA
SG209T	LM209H	MOTA	SG3503	MC3503	MOTA	uA78M08HC	MC78M08CG	MOTA	uA208F	LM208J	MOTA	uA709CJG	MC1709CU	MOTA
SG211D	LM211J	MOTA	SG3524	SG3524	TII	uA78M08HC	MC78M08CG	MOTA	uA208H	LM208F	MOTA	uA709CL	MC1709CG	MOTA
SG211M	LM211N	MOTA	SG4501D	MC4501D	TII	uA78M08UC	MC78M08CT	MOTA	uA208HM	LM208H	MOTA	uA709CL	MC1709CG	MOTA
SG211T	LM211H	MOTA	SG4501N	MC4501N	MOTA	uA78M12CKC	MC78M12CT	MOTA	uA208HM	LM208H	NSC	uA709CN	MC1709CP2	MOTA
SG224J	LM224J	MOTA	SG7805CK	MC7805CK	MOTA	uA78M12HC	MC78M12CG	MOTA	uA209KM	LM209K	MOTA	uA709CN-8	LM709CN-8	NSC
SG224N	LM224N	MOTA	SG7806CK	MC7806CK	MOTA	uA78M12UC	MC78M12CT	MOTA	UA301A	LM301A	TII	uA709CN-14	LM709CN	NSC
SG301AM	LM301AN	MOTA	SG7808CK	MC7808CK	MOTA	uA78M15CKC	MC78M15CT	MOTA	uA301AH	LM301AH	MOTA	uA709CP	MC1709CP1	MOTA
						uA78M15HC	MC78M15CH	MOTA	uA301AHC	LM301AH	NSC	uA709CP	MC1709CN-8	NSC
						uA78M15UG	MC78M15CT	MOTA	uA301AT	LM301AN	MOTA	uA709CT	LM709CH	NSC
									uA301ATC	LM301AN	NSC	uA709DC	MC1709CL	MOTA

13a. DIRECT REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
uA709DM	MC1709L	MOTA	uA723MJ (Cont'd)	LM723J	NSC	UA747-1C	UA747-1C	TII	uA798HC	MC3458G	MOTA
uA709FM	MC1709F	MOTA	uA723ML	MC1723G	MOTA	UA747-1M	UA747-1M	TII	uA798HM	MC3558G	MOTA
uA709HC	MC1709CG	MOTA	uA723PC	LM723CN	NSC	UA747C	AU747C	TII	uA798RC	MC3458U	MOTA
LM709CH	NSC		UA733	UA733M	TII	uA747CJ	MC1747CL	MOTA	uA798RM	MC3558U	MOTA
uA709HM	MC1709G	MOTA	UA733C	UA733C	TII	uA747CL	MC1747CG	MOTA	uA798TC	MC3458P1	MOTA
LM709H	NSC		uA733CJ	MC1733CL	MOTA	uA747CN	MC1747CP2	MOTA	UA1458	MC1458	TII
UA709M	UA709M	TII	uA733CL	MC1733CG	MOTA	uA747CP	LM747CN	NSC	uA1458CHC	MC1458CG	MOTA
uA709MJ	MC1709L	MOTA	uA733CN	MC1733CP	MOTA	uA747DM	MC1747L	MOTA	OP14CJ	PMI	
uA709MJJG	MC1709U	MOTA	uA733DC	LM733CN	NSC	uA747EDC	MC1747CCBM	MOTA	uA1458CP	MC1458CP1	MOTA
uA709ML	MC1709G	MOTA	uA733DM	MC1733CL	MOTA	OP03EY	PMI		MC1458U	MOTA	
uA709PC	MC1709CP2	MOTA	MC1733L	MOTA	uA747EHC	MC1747CICM	MOTA	uA1458CTC	MC1458CP1	MOTA	
LM709CN	NSC		uA733FM	MC1733F	MOTA	LM747EH	NSC		MC1458G	MOTA	
uA709T	LM709H	NSC	uA733HC	MC1733CG	MOTA	OP03EK	PMI		uA1458HC	MC1558G	MOTA
uA709TC	MC1709CP1	MOTA	LM733CH	NSC	uA733HM	MC1747CG	MOTA	OP14EJ	PMI		
LM709CN-8	NSC		uA733ML	MC1733G	MOTA	LM747CH	NSC		uA1458P	MC1458P1	MOTA
UA710	UA710M	TII	UA733M	LM733H	NSC	uA747HM	MC1747G	MOTA	uA1458RC	MC1458U	MOTA
UA710C	UA710M	TII	uA733MJ	UA733M	TII	NSC	LM747H	NSC	uA1458TC	MC1458P1	MOTA
uA710CN-14	LM710CN	NSC	uA733ML	MC1733L	MOTA	UA747IDM	OP04AY	PMI	uA1458T	MC1458P1	MOTA
uA710CT	LM710CH	NSC	UA741	MC1733G	MOTA	UA747M	UA747M	TII	UA1558	MC1558	TII
uA710DC	MC1710CL	MOTA	UA741AFM	LM741AF	NSC	uA747MJ	MC1747L	MOTA	uA1558E	MC1558G	MOTA
uA710DM	MC1710L	MOTA	uA741AHM	LM741AH	NSC	uA747ML	MC1747G	MOTA	uA1558HM	MC1558G	MOTA
uA710HC	MC1710CG	MOTA	LM741AF	NSC	uA747PC	MC1747CP2	MOTA	NSC	LM1558H	NSC	
LM710CH	NSC		uA741AHM	LM741AH	NSC	NSC	LM747CN	NSC	uA2136PC	MC1356P	MOTA
uA710HM	MC1710G	MOTA	OP02AJ	PMI	uA741C	OP03DY	PMI		uA3301P	MC3301P	MOTA
LM710H	NSC		UA741C	UA741C	TII	UA748	UA748M	TII	NSC	LM3301N	NSC
UA710M	UA710M	TII	uA741CF	LM741CJ-14	NSC	UA748C	UA748C	TII	uA3302P	MC3302P	MOTA
uA710PC	MC1710CP	MOTA	uA741CJ	LM741CJ-14	NSC	uA748CF	LM748CJ	NSC	NSC	LM3302N	NSC
LM710CN	NSC		MC1741CL	MOTA	uA748CJ	MC1748CL	MOTA	uA3303P	MC3302P	MOTA	
UA711	UA711M	TII	NSC	LM741CJ-14	NSC	uA748CJG	MC1748CU	MOTA	uA3401P	MC3401P	MOTA
UA711C	UA711C	TII	uA741CJG	MC1741CU	MOTA	NSC	LM748CJ	NSC	NSC	LM3401N	NSC
uA711CN	LM711CN	NSC	uA741CL	LM741CJ	NSC	uA748CL	MC1748CG	MOTA	uA3403D	MC3403L	MOTA
uA711CT	LM711CH	NSC	uA741CN	MC1741CG	MOTA	uA748CN	MC1748CG	MOTA	uA3403P	MC3403P	MOTA
uA711DC	MC1711CL	MOTA	MC1741CP2	MOTA	MC1748CP2	MOTA	NSC	UA7411	UA7411	TII	
uA711DM	MC1711L	MOTA	LM741CN	NSC	uA748CP	MC1748CP1	MOTA	uA7805KC	MC7805CT	MOTA	
uA711HM	MC1711CG	MOTA	uA741CP	MC1741CP1	MOTA	uA748CT	LM748CH	NSC	uA7805KC	MC7805CK	MOTA
LM711CH	NSC		uA741CT	LM741CN	NSC	uA748DC	MC1748CL	MOTA	uA7805KM	MC7805K	MOTA
uA711M	MC1711G	MOTA	LM741CH	NSC	uA748DM	MC1748L	MOTA	uA7805UC	MC7805CT	MOTA	
LM711H	NSC		uA741DM	LM741CJ-14	NSC	uA748FM	MC1748F	MOTA	uA7806CKC	MC7806CT	MOTA
uA711K	LM711H	NSC	MC1741L	MOTA	uA748HC	MC1748H	MOTA	uA7806KC	MC7806CK	MOTA	
UA711M	UA711M	TII	uA741EHC	LM741CH	NSC	NSC	LM748CH	NSC	uA7806KM	MC7806K	MOTA
uA711PC	MC1711CP	MOTA	OP02EJ	PMI	uA748HM	MC1748G	MOTA	uA7806UC	MC7806CT	MOTA	
LM711CN	NSC		uA741FC	MC1741CF	MOTA	NSC	LM748H	NSC	uA7806CKC	MC7806CT	MOTA
uA714HM	OP07AJ	PMI	uA741FM	MC1741F	MOTA	UA748M	UA748M	TII	uA7808CKC	MC7808CT	MOTA
uA714LHC	OP07DJ	PMI	uA741HC	LM741CH	NSC	uA748MJ	MC1748L	MOTA	uA7808KC	MC7808CK	MOTA
UA723	UA723M	TII	uA741HM	MC1741G	MOTA	NSC	LM748J-14	NSC	uA7808KM	MC7808K	MOTA
UA723C	UA723C	TII	UA741M	LM741H	NSC	uA748MJG	MC1748U	MOTA	uA7808UC	MC7808CT	MOTA
uA723CF	LM723CJ	NSC	uA741MJ	UA741M	TII	NSC	LM748J	NSC	uA7812CKC	MC7812CT	MOTA
uA723CJ	MC1723CL	MOTA	MC1741L	MOTA	uA748TC	MC1748G	MOTA	uA7812CK	MC7812CT	MOTA	
NSC	LM723CJ	NSC	LM741J-14	NSC	NSC	MC1748CP1	MOTA	uA7812CK	MC7812CK	MOTA	
uA723CL	MC1723CG	MOTA	uA741MJG	MC1741U	MOTA	NSC	LM748CN	NSC	uA7812KM	MC7812K	MOTA
LM723CH	NSC		uA741ML	LM741J	NSC	uA755DC	LM339J	MOTA	uA7812UC	MC7812CT	MOTA
uA723CN	MC1723CP	MOTA	uA741M	MC1741G	MOTA	uA755DM	LM339J	MOTA	uA7815CKC	MC7815CT	MOTA
LM723CN	NSC		uA741PC	LM741CN-14	NSC	uA755PC	LM339N	MOTA	uA7815KC	MC7815CK	MOTA
uA723DC	LM723C-J	NSC	uA741IRC	MC1741CP2	MOTA	uA776HC	MC1776CG	MOTA	uA7815KM	MC7815K	MOTA
uA723DM	MC1723L	MOTA	LM741CJ	NSC	uA776HM	MC1776G	MOTA	uA7815CU	MC7815CT	MOTA	
LM723J	NSC		uA741IRM	MC1741U	MOTA	uA776TC	MC1776CP1	MOTA	uA7818CKC	MC7818CT	MOTA
uA723F	LM723J	NSC	uA741ITC	LM741CN	NSC	uA796DC	MC1496L	MOTA	uA7818KC	MC7818CK	MOTA
uA723HC	LM723CH	NSC	uA746PC	LM746N	NSC	uA796DM	MC1596L	MOTA	uA7818KM	MC7818K	MOTA
uA723HM	MC1723G	MOTA	UA747	UA747M	TII	uA796HC	MC1496G	MOTA	uA7818UC	MC7818CT	MOTA
LM723H	NSC		uA747AHM	LM747AH	NSC	NSC	LM1496H	NSC	uA7824CKC	MC7824CT	MOTA
uA723L	LM723H	NSC	OP03AY	PMI	uA796HM	MC1596G	MOTA	uA7824CK	MC7824CK	MOTA	
UA723M	UA723M	TII	UA747-1	UA747-1M	TII	NSC	LM358H	NSC	uA7824KC	MC7824CK	MOTA
uA723MJ	MC1723L	MOTA	uA747-1C	UA747-1C	TII	uA796PC	LM1496M	NSC			

13a. DIRECT REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
uPC1458C	PM1458Z	PMI									
uPC4082C	OP215FZ	PMI									
uPC4281C	OP15GZ	PMI									
uPC4558C	OP215GZ	PMI									
uPC4560C	OP215GZ	PMI									
uPC4741C	OP11GP	PMI									

13a. SUGGESTED REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
78H05KC	ECG932	ECG	4705	ECG123	ECG	A103CA	SK3007	RCA	A301	SK3444/123A	RCA	AD741CH	CA741CT	RCA
78HV05CDA	ECG931	ECG	4706	ECG108	ECG	A103CG	SK3006/160	RCA	A302	ECG123A	ECG		SK3514/941	RCA
78HV05CU	ECG960	ECG	4709	ECG108	ECG	A103DA	SK3006/160	RCA	A303	ECG102A	ECG	AD741CJ	ECG941	ECG
78HV12CDA	ECG933	ECG	4714	ECG123	ECG	A122	SK3007	RCA	A401	ECG102A	ECG	AD741CN	MC1741CG	MOTA
78HV12CU	ECG966	ECG	4715	ECG130	ECG	A123	ECG160	ECG	A403	ECG126	ECG		ECG941D	ECG
106A	ECG5454	ECG	4715A	ECG130	ECG	A124	SK3006/160	RCA	A440	ECG160	ECG		CA741CG	RCA
107C	ECG5456	ECG	4722	ECG121	ECG	A125	ECG126	ECG	A503	ECG160	ECG		CA741CE	RCA
108	ECG116	ECG	4727	ECG121	ECG	A126	SK3006/160	RCA	A504	ECG129	ECG		uA741CN	SIC
281	ECG123A	ECG	4732	ECG123A	ECG	A127	ECG126	ECG	A522	ECG129	ECG		SK3552/941M	RCA
515	ECG123	ECG	4733	ECG123A	ECG	A128	SK3006/160	RCA	A560	ECG130	ECG		ECG941D	ECG
546	ECG108	ECG	4734	ECG123A	ECG	A129	SK3006/160	RCA	A561	ECG129	ECG	AD741H	CA741T	RCA
551	ECG108	ECG	7921	ECG5802	ECG	A130	SK3444/123A	RCA	A570	ECG290A	ECG	AD741J	MC1741G	MOTA
612C	ECG177	ECG	9011	ECG229	ECG	A131	ECG123A	ECG	A600	ECG290A	ECG	AD741K	MC1741G	MOTA
710	ECG116	ECG	9012	ECG290A	ECG	A132	SK3039/316	RCA	A702	ECG116	ECG	AD741L	MC1741G	MOTA
791	ECG123A	ECG	9406	ECG5089A	ECG	A133	ECG154	ECG	A730	SK3438	RCA	AD741N	CA741G	RCA
1005	ECG123A	ECG	9521	ECG722	ECG	A134	SK3006/160	RCA	A731	SK3138/193A	RCA	AD741S	CA741E	RCA
1008	ECG128	ECG	9665PC	ECG2011	ECG	A136	ECG126	ECG	A733	ECG193A	ECG	AD741S	MC1741SG	MOTA
1009	ECG102A	ECG	9666DC	ECG2012	ECG	A137	SK3017B/117	RCA	A841	SK3025/129	RCA	AD1403	MC1403U	MOTA
1020	ECG116	ECG	9666PC	ECG2012	ECG	A138	ECG116	ECG	A842	ECG133A	ECG	AD1403AN	MC1403U	MOTA
1027	ECG146A	ECG	9667DC	ECG2013	ECG	A139	SK3275/194	RCA	A843	SK3025/129	RCA	AD7520F	MC3410L	MOTA
1032	ECG102	ECG	9667PC	ECG2013	ECG	A139	ECG194	ECG	A844	ECG290A	ECG	AD7520N	MC3410L	MOTA
1035	ECG158	ECG	9668DC	ECG2013	ECG	A136	SK3006/160	RCA	AD101AH	SK3114/290	RCA	AF102	SK3006/160	RCA
1103	ECG134A	ECG	9668PC	ECG2014	ECG	A137	ECG126	ECG	AD101AH	ECG234	ECG	AF105	SK3008	RCA
1105	ECG5011A	ECG	9923	ECG9923	ECG	A138	SK3444/123A	RCA	AD101AN	ECG234	ECG	AF110	SK3006/160	RCA
1106	ECG5014A	ECG	A101	SK3007	RCA	A138	ECG123A	ECG	AD101AN	SK3565/1171	RCA	AF111	SK3006/160	RCA
1107	ECG5015A	ECG	A101A	ECG126	ECG	A139	ECG199	ECG	AD101AN	CA101AT	RCA	AF112	SK3006/160	RCA
1108	ECG5016A	ECG	A101AA	SK3016	RCA	A139	SK3245/199	RCA	AD101AN	CA101AE	RCA	AF113	SK3006/160	RCA
1109	ECG5018A	ECG	A101AY	SK3006/160	RCA	A156	ECG199	ECG	AD101AN	CA101AG	RCA	AF114	SK3006/160	RCA
1200	ECG1111	ECG	A101B	SK3006/160	RCA	A157	SK3444/123A	RCA	AD101AN	CA101AE	RCA	AF120	SK3006/160	RCA
1303	ECG5113A	ECG	A101BA	SK3006/160	RCA	A157	ECG123A	ECG	AD101AN	CA201AT	RCA	AF134	SK3008	RCA
1305	ECG5117A	ECG	A101BB	SK3006/160	RCA	A158	SK3444/123A	RCA	AD101AN	CA201AG	RCA	AF150	SK3006/160	RCA
1306	ECG5120A	ECG	A101BC	SK3006/160	RCA	A158	ECG123A	ECG	AD101AN	CA201AE	RCA	AM101AT	SK3565/1171	RCA
1307	ECG5121A	ECG	A101BX	SK3006/160	RCA	A158A	SK3444/123A	RCA	AD101AN	CA201AE	RCA	AM101T	SK3565/1171	RCA
1308	ECG5122A	ECG	A101C	SK3006/160	RCA	A158B	SK3444/123A	RCA	AD101AN	SK3565/1171	RCA	AM201T	SK3565/1171	RCA
1309	ECG5124A	ECG	A101CA	SK3006/160	RCA	A158C	SK3444/123A	RCA	AD101AN	CA301AT	RCA	AM224D	ECG987	ECG
1312	ECG5127A	ECG	A101CV	SK3006/160	RCA	A158C	SK3444/123A	RCA	AD101AN	SK3565/1171	RCA	AM303	SK3311	RCA
1313	ECG5129A	ECG	A101CX	SK3006/160	RCA	A160	SK3118	RCA	AD101AN	LM301AH	MOTA	AM303A	SK3311	RCA
1321	ECG165	ECG	A101E	SK3006/160	RCA	A160	ECG126	ECG	AD101AN	ECG975	ECG	AM324D	ECG177	ECG
1340	ECG1321	ECG	A101QA	SK3006/160	RCA	A161	ECG126	ECG	AD101AN	CA301AG	RCA	AM324N	ECG987	ECG
1410	ECG100	ECG	A101X	SK3007	RCA	A188	SK3118	RCA	AD101AN	CA301AE	RCA	AM430	ECG987	ECG
1424	ECG100	ECG	A101Y	SK3006/160	RCA	A200	ECG159	ECG	AD101AN	SK3596/976	RCA	AM450	SK3016	RCA
1609	ECG123A	ECG	A101Z	SK3005	RCA	A200	ECG126	ECG	AD101AN	ECG975	ECG	AM460	SK3017B/117	RCA
1703	ECG165	ECG	A102	SK3007	RCA	A202	SK3005	RCA	AD101AN	ECG975	ECG	AM723HC	CA723CT	RCA
1820	ECG9923	ECG	A102A	ECG126	ECG	A202C	ECG126	ECG	AD101AN	ECG975	ECG	AM723HM	uA723CH	SIC
4000	ECG4000	ECG	A102AA	SK3007	RCA	A203	SK3005	RCA	AD101AN	ECG975	ECG	AM741DC	uA723H	SIC
4010	ECG123A	ECG	A102AB	SK3007	RCA	A203	SK3005	RCA	AD101AN	ECG975	ECG	AM741DM	CA741CG	RCA
4050	ECG755	ECG	A102BA	SK3007	RCA	A212	SK3007	RCA	AD101AN	ECG975	ECG	AM741DM	uA741CFE	SIC
4340	ECG5281A	ECG	A102BN	SK3007	RCA	A212	ECG102A	ECG	AD101AN	ECG975	ECG	AM741DM	CA741G	RCA
4341	ECG5282A	ECG	A102CA	SK3007	RCA	A213	SK3721/100	RCA	AD101AN	ECG975	ECG	AM741DM	uA741FE	SIC
4363	ECG126	ECG	A102TV	SK3007	RCA	A221	ECG100	ECG	AD101AN	ECG975	ECG	AM741DM	CA741CT	RCA
4423	ECG5255A	ECG	A103	SK3007	RCA	A221	ECG126	ECG	AD101AN	ECG975	ECG	AM741DM	uA741CT	RCA
4701	ECG130	ECG	A103A	ECG126	ECG	A225	SK3007	RCA	AD101AN	ECG975	ECG	AM741DM	CA741T	RCA
4702	ECG179	ECG	A103B	SK3006/160	RCA	A225	ECG126	ECG	AD101AN	ECG975	ECG	AM741DM	CA747CG	RCA
4704	ECG150A	ECG	A103C	SK3006/160	RCA	A226	ECG126	ECG	AD101AN	ECG975	ECG	AM741DM	uA747CF	SIC
						A233	SK3007	RCA	AD101AN	ECG975	ECG	AM741DM	CA747G	RCA
						A240	ECG126	ECG	AD101AN	ECG975	ECG	AM741DM	uA747H	SIC
						A241	SK3007	RCA	AD101AN	ECG975	ECG	AM741DM	CA747CT	RCA
						A245	ECG108	ECG	AD101AN	ECG975	ECG	AM741DM	uA747CH	SIC
						A300	ECG160	ECG	AD101AN	ECG975	ECG	AM741DM	CA747T	RCA
							SK3031A	RCA	AD101AN	ECG975	ECG	AM741DM	uA747H	SIC
							ECG116	ECG	AD101AN	ECG975	ECG	AM741DM	CA748CG	RCA
									AD101AN	ECG975	ECG	AM741DM	uA748CF	SIC
									AD101AN	ECG975	ECG	AM741DM	CA748G	RCA
									AD101AN	ECG975	ECG	AM741DM	uA748F	SIC

13a. SUGGESTED REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
AM748HC	CA748HC	RCA	AN155	SK3095/147A	RCA	CA158AG	SK3692	RCA	CA339AG	SK3569/834	RCA	CA758E	MC1310P	MOTA
AM1458H	CA1458H	RCA	AN203	SK3457/1054	RCA	CA158AS	SK3691	RCA	CA339E	SK3569/834	RCA	CA1310E	ULX3811A	SPR
AM1558H	CA1558H	RCA	AN210	SK3494/1055	RCA	CA158AT	SK3691	RCA	CA339G	SK3569/834	RCA	CA1458	SK3160/801	RCA
AMLM101AD	LM101AH	MOTA	AN211	SK3458/1056	RCA	CA158E	SK3692	RCA	CA339G	SK3569/834	RCA	CA1458E	SK3555	RCA
AMLM101AG	CA101AG	RCA	AN217	SK3460/1060	RCA	CA158G	SK3692	RCA	CA358A	SK3692	RCA	CA1458G	SK3465/778A	RCA
AMLM101AF	LM101AH	MOTA	AN217P	ECG1060	ECG	CA158S	SK3691	RCA	CA358AE	SK3692	RCA	CA1458G	ECG778A	ECG
AMLM101AH	CA101AT	RCA	AN220	SK3228/1061	RCA	CA158T	SK3691	RCA	CA358AG	SK3692	RCA	CA1458S	SK3551	RCA
AMLM101D	LM101AH	MOTA	AN221	SK3072/712	RCA	CA200	MHW1172	MOTA	CA358AS	SK3691	RCA	CA1458T	ECG778A	ECG
AMLM101F	LMN101AH	MOTA	AN222	SK3365/1004	RCA	CA201AT	SK3565/1171	RCA	CA358AT	SK3691	RCA	CA1558S	MC1558U	MOTA
AMLM101H	CA101T	RCA	AN238	SK3168/749	RCA	CA201T	ECG1171	ECG	CA358AT	SK3691	RCA	CA2601BU	MHW1343	MOTA
AMLM105F	LM105H	MOTA	AN240	SK3072/712	RCA	CA201T	LM201AH	MOTA	CA358E	SK3692	RCA	CA2800	MHW1172	MOTA
AMLM107D	LM107H	MOTA	AN241	SK3072/712	RCA	CA224E	SK3565/1171	RCA	CA358G	SK3692	RCA	CA3000	MC1550G	MOTA
AMLM107G	CA107G	RCA	AN242	SK3072/712	RCA	CA224E	ECG1171	ECG	CA358S	SK3691	RCA	CA3000	SK3547/900	RCA
AMLM107F	SK3596/976	RCA	AN242	SK3226/1071	RCA	CA224G	ECG987	ECG	CA358T	ECG928	ECG	CA3000T	ECG900	ECG
AMLM107H	LM107H	MOTA	AN245	SK3727/1164	RCA	CA239	SK3569/834	RCA	CA358T	SK3691	RCA	CA3000T	SK3547/900	RCA
AMLM107H	CA107T	RCA	AN246	SK3727/1164	RCA	CA239A	SK3569/834	RCA	CA401B	SK3691	RCA	CA3001	MC1550G	MOTA
AMLM201	SK3690	RCA	AN247	SK3729/1173	RCA	CA239A	SK3569/834	RCA	CA401B	ECG928	ECG	CA3001	SK3549/901	RCA
AMLM201	ECG1171	ECG	AN253	SK3295/1072	RCA	CA239AG	ECG834	ECG	CA416	MHW1182	MOTA	CA3001T	ECG901	ECG
AMLM201D	CA111G	RCA	AN260	SK3495/1074	RCA	CA239AG	SK3569/834	RCA	CA601BU	MHW1182	MOTA	CA3001T	SK3549/901	RCA
AMLM201D	SK3668	RCA	AN271	SK3706/1181	RCA	CA239E	ECG834	ECG	CA723	MHW1342	MOTA	CA3002	MC1550G	MOTA
AMLM201H	CA111T	RCA	AN277	SK3496/1073	RCA	CA239E	SK3569/834	RCA	CA723	SK3164/923	RCA	CA3004	MC1550G	MOTA
AMLM201H	LM111H	SIC	AN288	SK3227/1069	RCA	CA239G	ECG834	ECG	CA723CE	ECG923D	ECG	CA3005	MC1550G	MOTA
AMLM201AD	LM201AN	MOTA	AN289	SK3227/1069	RCA	CA258A	SK3569/834	RCA	CA723CT	ECG923	ECG	CA3006	MC1550G	MOTA
AMLM201AG	CA201AG	RCA	AN318	ECG1268	ECG	CA258A	SK3692	RCA	CA723E	SK3165/923D	RCA	CA3007	MC1550G	MOTA
AMLM201AF	LM201AH	MOTA	AN331	SK3728/1168	RCA	CA258AE	SK3692	RCA	CA723T	ECG923D	ECG	CA3008	MC1709F	MOTA
AMLM201AH	CA201AT	RCA	AN340	SK3967	RCA	CA258AG	SK3692	RCA	CA741	SK3164/923	RCA	CA3008A	MC1709F	MOTA
AMLM201D	LM201AN	MOTA	AN342	SK3226/1071	RCA	CA258AS	SK3691	RCA	CA741C	SK3514/941	RCA	CA3010	MC1709G	MOTA
AMLM201F	LM201AH	MOTA	AN343	SK3226/1071	RCA	CA258AT	SK3691	RCA	CA741C	SK3514/941	RCA	CA3010A	SK3540/903	RCA
AMLM201H	CA201T	RCA	AN362	SK3226/1071	RCA	CA258E	SK3692	RCA	CA741CE	SK3552/941M	RCA	CA3010A	ECG903	ECG
AMLM205F	LM205H	MOTA	AN362	SK3497/1248	RCA	CA258G	SK3692	RCA	CA741CG	ECG941M	ECG	CA3010A	MC1709G	MOTA
AMLM207D	LM207H	MOTA	AN366	SK3483/1242	RCA	CA258S	SK3691	RCA	CA741CG	SK3552/941M	RCA	CA3010A	SK3540/903	RCA
AMLM207D	SK3596/976	RCA	AN380	SK3725/1196	RCA	CA258T	SK3691	RCA	CA741CS	ECG941M	ECG	CA3010A	ECG903	ECG
AMLM207H	CA207T	RCA	AN 6912	ECG834	ECG	CA301AE	SK3691	RCA	CA741CS	SK3553	RCA	CA3010A	SK3540/903	RCA
AMLM207F	SK3690	RCA	BGY23	MHW709	MOTA	CA301AG	SK3641/975	RCA	CA741CT	ECG941M	ECG	CA3010T	SK3540/903	RCA
AMLM207H	LM207H	MOTA	BGY23A	MHW709	MOTA	CA301AG	ECG975	ECG	CA741CT	SK3514/941	RCA	CA3011	SK3540/903	RCA
AMLM211D	CA2111G	RCA	BGY50	MHW1121	MOTA	CA301AS	SK3641/975	RCA	CA741CE	ECG941	ECG	CA3011	MC1590G	MOTA
AMLM211H	LM211F	SIC	BGY51	MHW1121	MOTA	CA301AT	SK3565/1171	RCA	CA741E	SK3552/941M	RCA	CA3011	SK3129/726	RCA
AMLM211H	CA2111T	RCA	BGY51	MHW1122	MOTA	CA301AT	SK3565/1171	RCA	CA741E	ECG726	ECG	CA3011T	ECG726	ECG
AMLM211H	LM211H	SIC	BGY52	MHW1171	MOTA	CA301E	ECG1171	ECG	CA741G	SK3552/941M	RCA	CA3011T	SK3129/726	RCA
AMLM301	SK3565/1171	RCA	BGY53	MHW1172	MOTA	CA301E	SK3641/975	RCA	CA741G	SK3552/941M	RCA	CA3012	MC1590G	MOTA
AMLM301A	SK3565/1171	RCA	BGY54	MHW1172	MOTA	CA301E	SK3641/975	RCA	CA741S	SK3553	RCA	CA3012	SK3129/726	RCA
AMLM301AD	LM301AJ	MOTA	BGY55	MHW1171	MOTA	CA301F	SK3641/975	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM301AG	CA301AG	RCA	BGY55	MHW1172	MOTA	CA301G	SK3565/1171	RCA	CA741S	SK3553	RCA	CA3012	SK3129/726	RCA
AMLM301AH	CA301AT	RCA	BGY56	MHW1221	MOTA	CA301H	SK3565/1171	RCA	CA741S	SK3553	RCA	CA3012	MC1590G	MOTA
AMLM301D	LM301AJ	MOTA	BGY57	MHW1222	MOTA	CA301H	SK3596/976	RCA	CA741S	SK3553	RCA	CA3012	SK3129/726	RCA
AMLM301H	CA301T	RCA	BGY59	MHW1342	MOTA	CA307E	ECG976	ECG	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM305A	LM305H	MOTA	C218A	ECG128	ECG	CA307S	SK3690	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM305F	LM305H	MOTA	CA101AT	SK3565/1171	RCA	CA307T	SK3690	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM307D	CA307G	RCA	CA101T	SK3565/1171	RCA	CA311	SK3569	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM307H	SK3596/976	RCA	CA101T	SK3565/1171	RCA	CA311E	SK3567	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM307H	CA307T	RCA	CA124E	SK3643/987	RCA	CA311E	SK3668	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM308A	SK3690	RCA	CA124G	SK3643/987	RCA	CA311G	ECG922M	ECG	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM310	ECG938	ECG	CA139	SK3643/987	RCA	CA311S	SK3668	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM310	ECG924	ECG	CA139	ECG922	ECG	CA311S	ECG922	ECG	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM311D	CA311G	RCA	CA139A	SK3569/834	RCA	CA311T	ECG922	ECG	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM311D	LM311F	SIC	CA139AE	SK3569/834	RCA	CA324E	ECG922	ECG	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM311H	SK3668	RCA	CA139AG	SK3569/834	RCA	CA324G	SK3643/987	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM311H	CA311T	RCA	CA139E	SK3569/834	RCA	CA324G	ECG987	ECG	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM311H	LM311H	SIC	CA139E	SK3569/834	RCA	CA324G	SK3643/987	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM319M	ECG919M	ECG	CA139G	SK3569/834	RCA	CA339	ECG987	ECG	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM319D	ECG919D	ECG	CA139G	SK3569/834	RCA	CA339A	SK3569/834	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AMLM348H	ECG948	ECG	CA158A	SK3692	RCA	CA339AE	SK3569/834	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
AN103	SK3445/1192	RCA	CA158AE	SK3692	RCA	CA339AG	SK3569/834	RCA	CA741S	SK3553	RCA	CA3012	ECG726	ECG
	ECG1192	ECG							CA741S	SK3553	RCA	CA3012	ECG726	ECG

13a. SUGGESTED REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
CA3018T	SK3542/904	RCA	CA3037E	SK3539/909	RCA	CA3064	(Cont'd)		CA3086	(Cont'd)		ICL101ALNFB	LM101AH	MOTA
CA3019	SK3546/905	RCA	CA3038	MC1709L	MOTA	CA3064E	SK3141/780	RCA	CA3086E	ECG912	ECG	ICL101ALNTY	LM101AH	MOTA
CA3019T	SK3546/905	RCA		SK3539/908	RCA	CA3064T	SK3215/783	RCA	CA3086F	SK3543/912	RCA	ICL301ALNPA	LM301AH	MOTA
CA3020	MC1554G	MOTA	CA3038A	ECG908	ECG	CA3065	SK3141/780	RCA	CA3086F	MC3346P	MOTA	ICL301ALNTY	LM301AH	MOTA
	SK3524/784	RCA		MC1709L	MOTA	CA3065E	SK3072/712	RCA	CA3086E	SK3146/787	RCA	ICL301ALNTY	LM301AH	MOTA
	ECG784	ECG		SK3539/908	RCA	CA3065F	SK3072/712	RCA	CA3089E	SK3147	RCA	ICL741CLNPA	MC1741CP1	MOTA
CA3020A	MC1554G	MOTA	CA3038AE	SK3539/908	RCA	CA3065F	SK3072/712	RCA	CA3090	SK3078/789	RCA	ICL741CLNTY	MC1741CP1	MOTA
	SK3524/784	RCA	CA3038E	SK3539/908	RCA	CA3065FC	SK3072/712	RCA	CA3090AQ	MC1310P	MOTA	ICL741LND0	MC1741L	MOTA
CA3020AT	SK3524/784	RCA	CA3039	SK3545/907	RCA	CA3065RCA	SK3072/712	RCA	CA3090E	SK3078/789	RCA	ICL741LNFB	MC1741L	MOTA
CA3020B	SK3524/784	RCA	CA3039T	SK3545/907	RCA	CA3066	MC1399P	MOTA	CA3090E	SK3078/789	RCA	ICL741LNFB	MC1741L	MOTA
CA3020T	SK3524/784	RCA	CA3040	MC1510G	MOTA	CA3066	ULN2266A	MOTA	CA3090T	SK3078/789	RCA	ICL741LNFB	MC1741L	MOTA
CA3021	MC1590G	MOTA	CA3040	MC1510G	MOTA	CA3066	ULN2266A	MOTA	CA3091	MC1594L	MOTA	ICL8001CTZ	LM111J	MOTA
CA3022	MC1590G	MOTA	CA3041T	SK3101/706	RCA	CA3066E	SK3073/728	RCA	CA3091	MC1594L	MOTA	ICL8001MTZ	LM111J	MOTA
CA3023	MC1590G	MOTA	CA3041T	SK3101/706	RCA	CA3066E	SK3073/728	RCA	CA3094T	SK3617	RCA	ICL8007CTA	MC1709CG	MOTA
CA3026	CA3054	RCA	CA3042	MC1357P	MOTA	CA3066E	SK3073/728	RCA	CA3100T	SK3646	RCA	ICL8007MTA	MC1709CG	MOTA
	SK3548/906	RCA		SK3102/710	RCA	CA3066E	SK3074/729	RCA	CA3120E	MC1344P	MOTA	ICL8008CPA	LM301AN	MOTA
	ECG906	ECG		MC1357P	MOTA	CA3067AE	SK3074/729	RCA	CA3125E	ULN2125A	SPR	ICL8008CTY	LM301AN	MOTA
CA3026T	SK3548/906	RCA	CA3042E	SK3102/710	RCA	CA3067AE	SK3074/729	RCA	CA3130	MC1323P	MOTA	ICL8013A	MC1594G	MOTA
CA3028	SK3525/724	RCA	CA3043	MC1357P	MOTA	CA3067E	SK3074/729	RCA	CA3130A	SK3568	RCA	ICL8013B	MC1594G	MOTA
CA3028A	MC1550G	MOTA	CA3043	SK3140/786	RCA	CA3068	MC1323P	MOTA	CA3130A	SK3568	RCA	ICL8013C	MC1594G	MOTA
	SK3525/724	RCA	CA3043T	SK3140/786	RCA	CA3068	ULN2267A	MOTA	CA3130AE	SK3696	RCA	ICL8017CTW	MLM301AN	MOTA
	ECG724	ECG	CA3044	MC1346P	MOTA	CA3070	ULN2124A	SPR	CA3130AE	ECG930	ECG	ICL8017MTW	LM301AN	MOTA
CA3028AF	MC1550G	MOTA	CA3044T	SK3070/711	RCA	CA3070	MC1399P	MOTA	CA3130AS	ECG930	ECG	ICL8021C	MC1776G	MOTA
	SK3525/724	RCA	CA3044V1	MC1346P	MOTA	CA3071	ULN2127A	SPR	CA3130B	SK3568	RCA	ICL8021M	MC1776G	MOTA
CA3028AS	MC1550G	MOTA	CA3045	SK3070/711	RCA	CA3072	MC1323P	MOTA	CA3130E	SK3696	RCA	ICL8022C	MC1776G	MOTA
	SK3525/724	RCA	CA3045E	ULS2045H	SPR	CA3075	ULN2228A	SPR	CA3130E	ECG930	ECG	ICL8022M	MC1776G	MOTA
	ECG724	ECG	CA3045E	SK3543/912	RCA	CA3075D	SK3144/723	RCA	CA3130S	SK3568	RCA	ICL8043CDE	MC1776G	MOTA
CA3028AT	SK3525/724	RCA	CA3045E	ECG912	ECG	CA3075E	SK3144/723	RCA	CA3130T	ECG930	ECG	ICL8043CPE	MC1776G	MOTA
CA3028B	MC1550G	MOTA	CA3045F	MC3346P	MOTA	CA3076	MC1590G	MOTA	CA3134	SK3212/1175	RCA	ICL8043MDE	MC1776G	MOTA
	SK3525/724	RCA		ULS2045H	SPR	CA3078AS	MC1776G	MOTA	CA3134E	TDA1190Z	MOTA	ICL8048CDE	MC1776G	MOTA
	ECG724	ECG	CA3045F	SK3543/912	RCA	CA3078AS	SK3566	RCA	CA3134EM	SK3212/1175	RCA	ICL8048DPE	MC1776G	MOTA
CA3028BF	MC1550G	MOTA	CA3045L	ECG912	ECG	CA3078B	SK3566/RCA	MOTA	CA3134EM	TDA1190Z	MOTA	L78M05	ECG960	ECG
	SK3525/724	RCA	CA3046	MC3346P	MOTA	CA3078B	MC1776G	MOTA	CA3134EQM	SK3212/1175	RCA	L78M06	ECG962	ECG
	ECG724	ECG	CA3046E	ULS2045H	SPR	CA3078S	MC1776CG	MOTA	CA3134O	SK3212/1175	RCA	L78M08	ECG964	ECG
CA3028BS	MC1550G	MOTA	CA3046E	SK3543/912	RCA	CA3078T	SK3566	RCA	CA3134OM	TDA1190Z	MOTA	L78M12	ECG966	ECG
	SK3525/724	RCA	CA3047	ECG912	ECG	CA3079	MC3059	MOTA	CA3136	MC3346P	MOTA	L78M15	ECG968	ECG
	ECG724	ECG	CA3047A	MC1433L	MOTA	CA3079E	SK3541/914	RCA	CA3137E	MC1323P	MOTA	L78M24	ECG972	ECG
CA3028T	SK3525/724	RCA	CA3047A	MC1433L	MOTA	CA3080	SK3541/914	RCA	CA3401E	MC3346P	MOTA	L129	ECG960	ECG
CA3029	MC1709P2	MOTA	CA3048	MC3301P	MOTA	CA3080E	ECG902	ECG	CA6078AS	ECG992	ECG	L130	ECG966	ECG
	SK3539/908	RCA	CA3049	SK3548/906	RCA	CA3080E	ECG996	ECG	CA6078AT	MC1776G	MOTA	L131	ECG968	ECG
	ECG908	ECG	CA3049T	SK3548/906	RCA	CA3081	ECG916	ECG	CA6741S	MC1776G	MOTA	L2005CT	ECG931	ECG
CA3029A	MC1709P2	MOTA	CA3049T	SK3548/906	RCA	CA3083	SK3695	RCA	CA6741T	MC1776G	MOTA	LA1201	SK3288/1003	RCA
	SK3539/908	RCA	CA3052	ECG906	ECG	CA3083E	SK3695	RCA	HA17458GS	MC1776G	MOTA	LA1222	SK3762/1227	RCA
CA3029E	SK3539/908	RCA	CA3052	ECG906	ECG	CA3083E	SK3695	RCA	HA17458PS	ECG778A	ECG	LF152D	LF155J	MOTA
CA3030	MC1709P2	MOTA	CA3053	MC3301P	MOTA	CA3083E	SK3695	RCA	HA17458PS	ECG778A	ECG	LF252D	LF255J	MOTA
	SK3539/908	RCA	CA3053	MC1550G	MOTA	CA3085	MC1723G	MOTA	HA17723G	ECG923D	ECG	LH0001ACD	MC1776CG	MOTA
	ECG908	ECG	CA3053T	SK3525/724	RCA	CA3085	SK9036	RCA	HA17741G	ECG941D	ECG	LH0001ACF	MC1776CG	MOTA
CA3030A	MC1709P2	MOTA	CA3054E	ECG724	ECG	CA3085	MC1723G	MOTA	HA17741GS	ECG941M	ECG	LH0001ACH	MC1776CG	MOTA
	SK3539/908	RCA	CA3055	MC1550G	MOTA	CA3085A	SK9036	RCA	HA17747G	ECG947D	ECG	LH0001AD	MC1776G	MOTA
	ECG908	ECG	CA3055	SK3544/917	RCA	CA3085AF	MC1723G	MOTA	HA17747P	ECG947D	ECG	LH0001AF	MC1776G	MOTA
CA3030AE	SK3539/908	RCA	CA3055	SK3544/917	RCA	CA3085B	MC1723G	MOTA	HA17806P	ECG962	ECG	LH0001AH	MC1776G	MOTA
CA3030E	SK3539/908	RCA	CA3056	SK9036	RCA	CA3085B	MC1723G	MOTA	HA17812P	ECG966	ECG	LH0001CH	MC1538R	MOTA
CA3031	MC1712G	MOTA	CA3056A	SK3541/914	RCA	CA3085B	MC1723G	MOTA	HA17818P	ECG958	ECG	LH0002H	MC1538R	MOTA
CA3032	MC1712CG	MOTA	CA3056A	SK3541/914	RCA	CA3085B	MC1723G	MOTA	HA17901G	ECG834	ECG	LH0004CH	MC1436G	MOTA
CA3033	MC1533L	MOTA	CA3056AE	SK3541/914	RCA	CA3085E	MC1723G	MOTA	HA17902G	ECG834	ECG	LH0004H	MC1536G	MOTA
CA3033A	MC1533L	MOTA	CA3058	SK3541/914	RCA	CA3085E	MC1723G	MOTA	HA17902P	ECG987	ECG	LH0042CH	MC1776G	MOTA
CA3035	MC1352P	MOTA	CA3058	SK3541/914	RCA	CA3085E	MC1723G	MOTA	ICL101ALNDP	LM101AH	MOTA	LH101F	MC1741F	MOTA
	SK3254/785	RCA	CA3059	MC1346	MOTA	CA3086	SK3543/912	RCA						

13a. SUGGESTED REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
LM301AG	SK3565/1171	RCA	LM317KC	ECG956	ECG	LM338K	ECG935	ECG	LM345K	MC7905CK	MOTA
LM301AH	CA301AT	RCA	LM317T	ECG956	ECG	LM339	SK3569/834	RCA	LM348J	ECG948	ECG
	SK3565/1171	RCA	LM318D	MC1741SCL	MOTA	LM339A	SK3569/834	RCA	LM348N	ECG948	ECG
	ECG1171	ECG	LM318F	MC1741SCL	MOTA	LM339AD	CA339AG	RCA	LM349D	MC4741CL	MOTA
LM301AJ	CA301AG	RCA	LM318H	MC1741SCL	MOTA	LM339AF	SK3569/834	RCA	LM349J	MC4741>CL	MOTA
LM301AJG	CA301AG	RCA	LM318M	CA3130T	RCA	LM339AJ	CA339AG	RCA	LM349N	MC4741CL	MOTA
LM301AL	CA301AT	RCA	LM318N	ECG918M	ECG	LM339AN	ECG834	ECG	LM350K	ECG970	ECG
	SK3565/1171	RCA	LM318P	MC1741SCP1	MOTA	LM339AH	CA339AG	RCA	LM358AH	CA358AT	RCA
LM301AN	SK3565/1171	RCA	LM318P	ECG918M	ECG	LM339AJ	CA339AE	RCA		SK3691	RCA
	ECG975	ECG	LM319H	ECG919	ECG	LM339AN	SK3569/834	RCA		ECG928	ECG
LM301AP	SK3641/975	RCA	LM319J	ECG919D	ECG	LM339D	ECG834	ECG	LM358AN	CA358AG	RCA
	ECG975	ECG	LM319K	ECG919	ECG	LM339E	CA339G	RCA		CA358AE	RCA
LM301AP1	SK3641/975	RCA	LM319N	ECG919D	ECG	LM339F	SK3569/834	RCA		SK3692	RCA
LM301AT	SK3565/1171	RCA	LM320H5.2	MC7905.2CK	MOTA	LM339G	ECG834	ECG	LM358AT	ECG928M	ECG
	ECG975	ECG	LM320H5.2	MC7905.2CT	MOTA	LM339H	CA339G	RCA		CA358T	RCA
LM301AV	SK3641/975	RCA	LM320MP5.0	MC7905CT	MOTA	LM339I	CA339E	RCA	LM358H	SK3691	RCA
	ECG975	ECG	LM320MP5.2	MC7905.2CT	MOTA	LM339J	SK3569/834	RCA		ECG928	ECG
LM301T	CA301T	RCA	LM320MP6.0	MC7906CT	MOTA	LM339N	ECG834	ECG	LM358J	ECG928M	ECG
LM307D	CA307G	RCA	LM320MP8.0	MC7908CT	MOTA	LM340DA	SK3629/309K	RCA	LM358JG	SK3692	RCA
	SK3596/976	RCA	LM320MP12	MC7912CT	MOTA	LM340LAH5.0	MC78L05ACG	MOTA		ECG928M	ECG
LM307DE	SK3596/976	RCA	LM320MP15	MC7915CT	MOTA	LM340LAH6.0	MC78L06ACG	MOTA	LM358L	CA358G	RCA
LM307F	CA301G	RCA	LM320MP18	MC7918CT	MOTA	LM340LAH8.0	MC78L08ACG	MOTA		CA358E	RCA
	SK3596/976	RCA	LM320MP24	MC7924CT	MOTA	LM340LAH12	MC78L12ACG	MOTA	LM358N	SK3692	RCA
LM307H	CA307T	RCA	LM320T5-0	ECG961	ECG	LM340LAH15	MC78L15ACG	MOTA		ECG928M	ECG
	CA307H	RCA	LM320T5.2	MC7905.2CT	MOTA	LM340LAH18	MC78L18ACG	MOTA	LM358P	CA358G	RCA
	SK3690	RCA	LM320T12	SK3673/967	RCA	LM340LAH24	MC78L24ACG	MOTA		CA358E	RCA
LM307J	SK3596/976	RCA	LM320T15	SK3674/969	RCA	LM340LAZ5.0	MC78L05ACP	MOTA	LM358T	SK3692	RCA
	ECG976	ECG	LM322H	MC1455G	MOTA	LM340LAZ6.0	MC78L06ACP	MOTA		ECG928	ECG
LM307N	CA307G	RCA	LM322N	MC1455P1	MOTA	LM340LAZ8.0	MC78L08ACP	MOTA	LM363AJ	MC3450L	MOTA
	CA307E	RCA	LM323	SK9076	RCA	LM340LAZ12	MC78L12ACP	MOTA	LM363AN	MC3450L	MOTA
	SK3596/976	RCA	LM323K	SK9067	RCA	LM340LAZ15	MC78L15ACP	MOTA	LM363J	MC3450L	MOTA
	ECG976	ECG	LM324	SK3643/987	RCA	LM340LAZ18	MC78L18ACP	MOTA	LM363N	MC3450P	MOTA
LM307P	SK3596/976	RCA	LM324A	SK3643/987	RCA	LM340LAZ24	MC78L24ACP	MOTA	LM371H	MC1590G	MOTA
	ECG976	ECG	LM324AD	CA324AG	RCA	LM340T5.0	SK3591/960	RCA	LM376JG	LM305H	MOTA
LM307T	CA307T	RCA	LM324AF	SK3643/987	RCA	LM340T6.0	SK3669/962	RCA	LM386N	LM1306P	MOTA
	SK3690	RCA	LM324AJ	ECG987	ECG	LM340T8.0	SK3630/964	RCA	LM393N	CA3290E	RCA
LM308AH	ECG938	ECG	LM324AN	CA423AG	RCA	LM340T12	SK3592/966	RCA	LM555CH	CA555CT	RCA
	ECG938M	ECG	LM324U	CA324AE	RCA	LM340T15	ECG966	ECG		NE555H	SIC
LM308AJ-8	ECG938M	ECG	LM324UJ	SK3643/987	RCA	LM340U5	SK3593/968	RCA	LM555CN	CA555CE	RCA
	ECG938M	ECG	LM324V	ECG987	ECG	LM340U6	ECG968	ECG	LM555N	NE555N	SIC
LM308AN	ECG938M	ECG	LM324W	CA324G	RCA	LM340U8	SK3669/962	RCA	LM555P	CA555E	RCA
	ECG938	ECG	LM324X	SK3643/987	RCA	LM340U15	SK3630/964	RCA	LM555CN	ECG978	ECG
LM308AT	ECG938	ECG	LM324Y	CA324G	RCA	LM340U24	SK3593/968	RCA	LM565CH	NE565N	MOTA
	ECG938M	ECG	LM324Z	SK3643	RCA	LM341P5.0	SK3670/972	RCA		NE565H	SIC
LM308B	ECG938	ECG	LM324ZJ	ECG987	ECG	LM341P8.0	SK3591/960	RCA	LM703HC	SK3157/703A	RCA
	ECG938M	ECG	LM324ZK	CA324G	RCA	LM341P12	ECG960	ECG	LM703L	SK3157/703A	RCA
LM308B-8	ECG938M	ECG	LM324ZL	SK3643	RCA	LM341P15	SK3630/964	RCA	LM703LN	MC1350P	MOTA
	ECG938M	ECG	LM324ZM	ECG987	ECG	LM341P18	SK3592/966	RCA		SK3157/703A	RCA
LM308J-8	ECG938M	ECG	LM324ZP	CA324G	RCA	LM341P24	ECG966	ECG	LM709C	SK3590/909D	RCA
	ECG938M	ECG	LM324ZQ	SK3643/987	RCA	LM341P24	SK3593/968	RCA	LM709CH	SK3590/909D	RCA
LM308N	ECG938M	ECG	LM324ZR	ECG987	ECG	LM341P24	ECG968	ECG		ECG909	ECG
	ECG938M	ECG	LM324ZS	CA324G	RCA	LM342P5.0	SK3462/977	RCA	LM709CN	SK3590/909D	RCA
LM308T	ECG938	ECG	LM324ZT	SK3643/987	RCA	LM342P8.0	ECG960	ECG		ECG909D	ECG
	ECG938M	ECG	LM324ZU	ECG987	ECG	LM342P12	SK3724/981	RCA	LM710CH	SK3553	RCA
LM308DA	ECG309K	ECG	LM324ZV	CA324G	RCA	LM342P15	SK3592/966	RCA	LM710CN	ECG910	ECG
	ECG309K	ECG	LM324ZW	SK3643	RCA	LM342P15	ECG966	ECG	LM711CH	ECG911	ECG
LM309K	ECG309K	ECG	LM324ZJ	ECG987	ECG	LM342P15	SK3593/968	RCA	LM711CN	ECG911D	ECG
	ECG309K	ECG	LM324ZK	CA324G	RCA	LM343D	ECG968	ECG	LM723	SK3164/923	RCA
LM309KC	SK3629/309K	RCA	LM324ZL	SK3643/987	RCA	LM343H	MC1436G	MOTA			
	ECG924	ECG	LM324ZM	ECG987	ECG		MC1436G	MOTA			
LM310H	ECG924M	ECG	LM324ZN	CA324G	RCA						
	ECG924M	ECG	LM324ZP	SK3643/987	RCA						
LM310N	CA311G	RCA	LM324ZQ	ECG987	ECG						
	SK3668	RCA	LM324ZR	MC3403P	MOTA						
LM311D	SK3668	RCA	LM324ZS	SK3643/987	RCA						
	ECG922	ECG	LM324ZT	ECG987	ECG						
LM311F	CA311G	RCA	LM324ZU	MC1468L	MOTA						
	SK3668	RCA	LM324ZV	MC1468G	MOTA						
LM311H	CA311T	RCA	LM324ZW	MC1468L	MOTA						
	SK3567	RCA	LM324ZX	MC1468G	MOTA						
	ECG922	ECG	LM324ZY	MC1468L	MOTA						
LM311JG	CA311G	RCA	LM324ZZ	MC1468G	MOTA						
	SK3668	RCA	LM324ZJ	MC1468L	MOTA						
LM311N	SK3668	RCA	LM324ZK	MC1468G	MOTA						
	ECG922M	ECG	LM324ZL	MC1468L	MOTA						
LM311P	SK3668	RCA	LM324ZM	MC1468G	MOTA						
	ECG922M	ECG	LM324ZN	MC1468L	MOTA						
LM311T	CA311T	RCA	LM324ZO	MC1468G	MOTA						
	ECG922	ECG	LM324ZP	MC1468L	MOTA						
LM312D	MC1456L	MOTA	LM324ZQ	MC1468G	MOTA						
	MC1456L	MOTA	LM324ZR	MC1468L	MOTA						
LM312F	MC1456L	MOTA	LM324ZS	MC1468G	MOTA						
	MC1456G	MOTA	LM324ZT	MC1468L	MOTA						
LM312H	MC1456G	MOTA	LM324ZU	MC1468G	MOTA						
	MC1456G	MOTA	LM324ZV	MC1468L	MOTA						
			LM324ZW	MC1468G	MOTA						
			LM324ZX	MC1468L	MOTA						
			LM324ZY	MC1468G	MOTA						
			LM324ZZ	MC1468L	MOTA						

13a. SUGGESTED REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
LM748CJ	CA748CG	RCA	LM2904N (Cont'd)	ECG928M	ECG	LM75208J	MC75108L	MOTA	MC1353	SK3284/1080	RCA
LM748CN	CA748CG	RCA	LM2904P	CA2904G	RCA	LM75208N	MC75102P	MOTA	MC1353P	SK3284/1080	RCA
	CA748CE	RCA	LM2905N	MC1455P1	MOTA	LM75324J	MC75325L	MOTA	MC1355P	SK3280/750	RCA
	SK3641/975	RCA		ECG928M	ECG	LM75324N	MC75325P	MOTA	MC1355PO	SK3280/750	RCA
	ECG975	ECG	LM2917N	ECG995	ECG	LM7806C	SK3669/962	RCA	MC1357	SK3135/709	RCA
LM748H	CA748T	RCA	LM3011H	MC1550G	MOTA	LM7806CT	SK3669/962	RCA	MC1357A	CA741CG	RCA
	SK3645	RCA		CA3011	RCA	LM7824C	SK3670/972	RCA	MC1357P	uA741CN	SIC
LM748J	CA748G	RCA	LM3026	CA3054	MOTA	LM7824CT	SK3670/972	RCA	MC1357PO	ECG941D	ECG
LM1310N	CA1310E	RCA	LM3028	SK3525/724	RCA	LM7905CT	SK3671/961	RCA	MC1370F	CA741CG	RCA
LM1391N	ULN2291M	SPR	LM3028A	SK3525/724	RCA	LM7906CT	SK3672/963	RCA	MC1370PQ	SK3514/941	RCA
LM1394N	CA1394E	RCA	LM3028B	SK3525/724	RCA	LM7912CT	SK3673/967	RCA	MC1371P	ECG941D	ECG
	ULN2294M	SPR	LM3028BH	SK3525/724	RCA	LM7915CT	SK3674/969	RCA	MC1371PQ	CA741T	RCA
LM1408J	MC1408L6	MOTA	LM3045	MC3346P	MOTA	LM7924CT	SK3675/971	RCA	MC1458CP	SK3514/941	RCA
LM1408J7	MC1408L7	MOTA	LM3045D	SK3543/912	RCA	LM78L05ACP	SK3462/977	RCA	MC1458CP1	CA741G	RCA
LM1408JB	MC1408L8	MOTA	LM3046N	SK3543/912	RCA	LM78L05C	SK3462/977	RCA	MC1458G	SK3552/941M	RCA
LM1408N6	MC1408P6	MOTA	LM3053	SK3163/736	RCA	LM78L05CP	SK3465/778A	RCA	MC1458H	ECG918	ECG
LM1408N7	MC1408P7	MOTA	LM3053N	SK3163/736	RCA	MC1458J	SK3465/778A	RCA	MC1458K	ECG918M	ECG
LM1408N8	MC1408P8	MOTA	LM3054N	SK3544/917	RCA	MC1458L	CA1458T	RCA	MC1458M	CA747CT	RCA
LM1458B	CA1458T	RCA	LM3064	SK3141/780	RCA	MC1458P	MC1458H	SIC	MC1458Q	uA747CH	SIC
	MC1458H	SIC	LM3064H	SK3141/780	RCA	MC1458R	SE535FE	RCA	MC1458S	ECG947	ECG
LM1458B1	CA1458FE	RCA	LM3065	SK3072/712	RCA	MC1458T	ECG778A	ECG	MC1458U	CA747CG	RCA
	MC1458FE	SIC	LM3065N	SK3072/712	RCA	MC1458V	SK3555	RCA	MC1458W	uA747CF	RCA
LM1458N	CA1458G	RCA	LM3066N	MC1399P	MOTA	MC78L05AC	SK3724/981	RCA	MC1458X	SK3556/947D	RCA
	CA1458E	RCA		ULN2266A	SPR	MC78L05ACP	SK3724/981	RCA	MC1458Y	ECG947D	ECG
	MC1458N	SIC	LM3067N	SK3073/728	RCA	MC78L05C	SK3724/981	RCA	MC1458Z	SK3556/947D	RCA
	ECG778A	ECG		MC1323P	MOTA	MC78L05CP	SK3724/981	RCA	MC1459	SK3556/947D	RCA
LM1558H	CA1558T	RCA	LM3070N	ULN2267A	SPR	MC78M05CP	SK3591/960	RCA	MC1459A	SK3556/947D	RCA
	MC1558H	SIC		SK3074/729	RCA	MC78M05CXP	SK3591/960	RCA	MC1459B	ECG947D	ECG
LM1558J	CA1558G	RCA	LM3070N	MC1399P	MOTA	MC78M06CP	SK3669/962	RCA	MC1459C	CA747T	RCA
	CA1558E	RCA		ULN2124A	SPR	MC78M08CP	SK3630/964	RCA	MC1459D	uA747H	SIC
	MC1558F	SIC	LM3071N	SK3075/714	RCA	MC78M12CP	SK3592/966	RCA	MC1459E	CA747G	RCA
LM1558N	CA1558G	RCA	LM3072	MC1399P	MOTA	MC78M15CP	SK3593/968	RCA	MC1459F	uA747F	SIC
	CA1558E	RCA	LM3075N	ULN2127A	SPR	MC78M24CP	SK3670/972	RCA	MC1459G	CA748CT	RCA
LM1800AN	MC1310P	MOTA	LM3086N	SK3076/715	RCA	MC1304P	SK3159/718	RCA	MC1459H	SK3645	RCA
LM1800N	MC1310P	MOTA	LM3126	MC1399P	MOTA	MC1304PG	SK3159/718	RCA	MC1459J	CA748CG	RCA
	CA758E	RCA	LM3146	MC3346P	MOTA	MC1305	SK3159/718	RCA	MC1459K	SK3644	RCA
	ULX3811A	SPR	LM3146A	MC3346P	MOTA	MC1305P	SK9014/720	RCA	MC1459L	CA748CG	RCA
LM1805	MC1385P	MOTA	LM3301N	SK3688/992	RCA	MC1305PA	SK9014/720	RCA	MC1459M	SK3644	RCA
LM1808N	TDA1190Z	MOTA		ECG992	ECG	MC1307P	SK3278/803	RCA	MC1459N	CA748T	RCA
LM1828N	MC1323P	MOTA	LM3302	SK3569/834	RCA	MC1307PQ	SK3161/722	RCA	MC1459O	uA748H	SIC
	ULN2228A	SPR	LM3302N	ECG992	ECG	MC1312P	SK9014/720	RCA	MC1459P	SK3641/975	RCA
LM1845N	MC1344P	MOTA	LM3302N	SK3569/834	RCA	MC1312PQ	SK3238/799	RCA	MC1459Q	CA748G	RCA
	CA3120E	RCA	LM3401N	SK3569/834	RCA	MC1314	SK3277/802	RCA	MC1459R	SK3644	RCA
LM1848N	MC1323P	MOTA	LM3401N	SK3688/992	RCA	MC1314P	SK3277/802	RCA	MC1459S	SK3167/738	RCA
	ULN2229A	SPR	LM3900N	ECG992	ECG	MC1315	SK3277/802	RCA	MC1459T	ECG74H08	ECG
LM1850N	MC3426L	MOTA	LM3900N	MC3401P	MOTA	MC1315P	SK3278/803	RCA	MC1459U	SK3688/992	RCA
LM1900D	MC3301L	MOTA		SK3688/992	RCA	MC1315PQ	SK3278/803	RCA	MC1459V	SK3688/992	RCA
LM2113N	MC1357P	MOTA	LM3905N	MC1455P1	MOTA	MC1326P	SK3235/739	RCA	MC1459W	SK3569/834	RCA
LM2900	SK3688/992	RCA	LM4250CH	MC1776CG	MOTA	MC1326PQ	SK3235/739	RCA	MC1459X	SK3891/829	RCA
LM2900J	MC3301L	MOTA	LM4250CN	MC1776CP1	MOTA	MC1328P	SK3454/790	RCA	MC1459Y	CA3046	RCA
LM2900N	MC3301P	MOTA	LM4250H	MC1776G	MOTA	MC1328P2	SK3454/790	RCA	MC1459Z	CA3086	RCA
	SK3688/992	RCA	LM55109J	MC755110L	MOTA	MC1328PQ	SK3454/790	RCA	MC1460	SK3688/992	RCA
LM2901	SK3569/834	RCA	LM55110J	MC755110L	MOTA	MC1329P	SK3454/790	RCA	MC1460A	SK3688/992	RCA
LM2901N	CA339G	RCA	LM55121J	MC8T13L	MOTA	MC1351	SK3077/790	RCA	MC1460B	SK3594	RCA
	SK3569/834	RCA	LM55122J	MC8T14L	MOTA	MC1351P	SK3236/748	RCA	MC1460C	CA4558ACPI	ECG
	ECG834	ECG	LM55123J	MC8T23L	MOTA	MC1351PQ	SK3236/748	RCA	MC1460D	ECG778A	ECG
LM2902	SK3643/987	RCA	LM55124	MC8T24L	MOTA	MC1352P	SK3236/748	RCA	MC1460E	CA3086	RCA
LM2902J	ECG834	ECG	LM75207L	MC75107L	MOTA	MC1352PQ	SK3168/749	RCA	MC1460F	SK3688/992	RCA
LM2902N	SK3543/987	RCA	LM75207N	MC75107P	MOTA	MC1352PQ	SK3168/749	RCA	MC1460G	SK3688/992	RCA
	ECG987	ECG							MC1460H	SK3688/992	RCA
LM2903	SK9011	RCA							MC1460I	SK3688/992	RCA
LM2903JG	LM2903N	MOTA							MC1460J	SK3688/992	RCA
LM2903N	SK9011	RCA							MC1460K	SK3688/992	RCA
LM2904J	ECG928M	ECG							MC1460L	SK3688/992	RCA
LM2904JG	ECG928M	ECG							MC1460M	SK3688/992	RCA
LM2904N	CA2904G	RCA							MC1460N	SK3688/992	RCA
	SK3692	RCA							MC1460O	SK3688/992	RCA

13a. SUGGESTED REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
MC7805	SK3591/960	RCA	NE516G	MC1520F	MOTA	RC1458NB	CA1458G	RCA	SE533T	MC1776G	MOTA	SFC2747EC	CA747CE	RCA
MC7805CK	SK3591/960	RCA	NE516K	MC1420G	MOTA	RC1458T	CA1458E	RCA	SE537G	MC1556G	MOTA	SFC2747EM	CA747E	RCA
MC7805CP	ECG931	ECG	NE531G	MC1439G	MOTA	RC3078NB	CA3078E	RCA	SE537T	MC1556G	MOTA	SFC2747M	CA747T	RCA
MC7805P	SK3591/960	RCA	NE531T	MC1439G	MOTA	RC3401DB	CA3078E	RCA	SE550L	MC1723G	MOTA	SFC2748C	CA748CT	RCA
MC7806C	SK3591/960	RCA	NE531V	MC1439P	MOTA	RC3401E	CA3401G	RCA	SE565A	MLM565CP	MOTA	SFC2748DC	ECG1171	ECG
MC7806CP	SK3669/962	RCA	NE532AN	ECG928M	ECG	RC4131DP	CA3401E	RCA	SE565K	MLM565CP	MOTA	SFC2748EC	CA748CE	RCA
MC7806P	SK3669/962	RCA	NE532AT	ECG928	ECG	RC4131T	MC1471SCP1	MOTA	SE1001	MPSA18	MOTA	SFC2748EM	CA748E	RCA
MC7812CCK	SK3630/964	RCA	NE532N	ECG928M	ECG	RC4136D	MC1741SG	MOTA	SE1002	MPSA18	MOTA	SFC2748M	CA748T	RCA
MC7812CP	SK3592/966	RCA	NE532T	ECG928	ECG	RC4136DP	MC34031L	MOTA	SE4001	MPSA18	MOTA	SFC2805EC	ECG1171	ECG
MC7812P	ECG933	ECG	NE533G	ECG928	ECG	RC4136J	MC3403P	MOTA	SE4002	MPS8097	MOTA	SFC2805FC	ECG960	ECG
MC7815CK	SK3592/966	RCA	NE533T	MC1776CG	MOTA	RC4136N	MC3403L	MOTA	SE4010	MPS8097	MOTA	SFC2805K	ECG309K	ECG
MC7815CP	SK3593/968	RCA	NE533V	MC1776CG	MOTA	RC4195T	MC3403P	MOTA	SE5020	MPS8097	MOTA	SFC2806EC	ECG962	ECG
MC7824C	ECG958	ECG	NE536T	ECG940	ECG	RC4195TK	MC1468G	MOTA	SE5024	MPSH30	MOTA	SFC2808EC	ECG964	ECG
MC7824CP	SK3670/972	RCA	NE537G	MC1456G	MOTA	RC4558JG	MC1468R	MOTA	SE5025	MPSH30	MOTA	SFC2812EC	ECG966	ECG
MC7905C	SK3670/972	RCA	NE537T	MC1456G	MOTA	RC4558NG	ECG778A	ECG	SE5023	MPSH30	MOTA	SFC2812FC	ECG933	ECG
MC7905CP	SK3671/961	RCA	NE540L	MC1554G	MOTA	RC4558P	ECG778A	ECG	SE5024	MPSH30	MOTA	SFC2815EC	ECG968	ECG
MC7905CT	SK3671/961	RCA	NE550A	MC1723CP	MOTA	REF01AJ	ECG778A	ECG	SE5035	MPSH30	MOTA	SFC2824EC	ECG972	ECG
MC7906C	ECG965	ECG	NE550F	ECG923D	ECG	REF01CJ	MC1500AU10	MOTA	SE5050	MPCS02	MOTA	SG101AD	CA101AG	RCA
MC7906CP	SK3672/963	RCA	NE550L	ECG923D	ECG	REF01CP	MC1404U10	MOTA	SE5051	MPSH30	MOTA	SG101AT	SK3565/1171	RCA
MC7906P	SK3672/963	RCA	NE550N	ECG923D	ECG	REF01DJ	MC1404U10	MOTA	SE5052	MPSH30	MOTA	SG101D	CA101G	RCA
MC7912C	SK3672/963	RCA	NE566T	ECG994	ECG	REF01EJ	MC1404U10	MOTA	SE5055	MPSH30	MOTA	SG101J	LM101AH	MOTA
MC7912CP	SK3673/967	RCA	NE566V	ECG994M	ECG	REF01HJ	MC1400U10	MOTA	SFC2018M	MPSH32	MOTA	SG101M	SK3565/1171	RCA
MC7912CT	SK3673/967	RCA	NE0801	MRF838	MOTA	REF01HP	MC1400U10	MOTA	SFC2036M	CA3018T	RCA	SG101T	SK3565/1171	RCA
MC7915C	ECG967	ECG	NE0803	MRF840	MOTA	REF01J	MC1400U10	MOTA	SG105	CA3036T	RCA	SG105N	SK3016	RCA
MC7915CP	SK3674/969	RCA	NE0810	MRF840	MOTA	REF01PP	MC1500AY10	MOTA	SG107	CA3046E	RCA	SG107D	LM105H	MOTA
MC7915CT	SK3674/969	RCA	NE32730	MRF901	MOTA	REF02AJ	MC1404U10	MOTA	SFC2046EC	CA3054E	RCA	SG1077D	LM107H	MOTA
MC7918CT	ECG959	ECG	NE41603	MRF962	MOTA	REF02CJ	MC1500AU5	MOTA	SFC2054EC	CA101AT	RCA	SG111D	CA107G	RCA
MC7924C	SK3675/971	RCA	NP5220	ECG289A	ECG	REF02CP	MC1404U5	MOTA	SFC2107M	CA107T	RCA	SG111D	CA111G	RCA
MC7924CP	SK3675/971	RCA	OA202	ECG177	ECG	REF02DJ	MC1405U5	MOTA	SFC2109RM	CA107T	RCA	SG111M	CA111G	RCA
MC7924CT	SK3675/971	RCA	PA10	ECG177	ECG	REF02DP	MC1404U5	MOTA	SFC2111M	ECG931	ECG	SG111T	CA111E	RCA
MLM139AL	LM139AF	SIC	PM355AJ	ECG5340	ECG	REF02EJ	MC1404U5	MOTA	SFC2201A	CA111T	RCA	SG120K5.2	CA111T	RCA
MLM139L	CA139G	RCA	PM355J	ECG937	ECG	REF02HJ	MC1400AU5	MOTA	SFC2209R	CA201AT	RCA	SG120T5.2	SK3567	RCA
MLM239AL	LM239AF	SIC	PM356J	ECG937	ECG	REF02HP	MC1400AU5	MOTA	SFC2211M	CA207T	RCA	SG201AD	MC7905.2CK	MOTA
MLM239L	CA239AG	RCA	PM357AJ	ECG937	ECG	REF02J	MC1500AU5	MOTA	SFC2211M	CA207T	RCA	SG201AM	MC7905.2CK	MOTA
MLM239AP	LM239AF	SIC	PM357J	ECG937	ECG	RV4136DB	RV555NB	ECG	SFC2211M	CA211T	RCA	SG201AN	CA201AG	RCA
MLM239L	CA239AG	RCA	PM725CJ	ECG925	ECG	RV4136DC	ECG955M	ECG	SFC2301A	CA211T	RCA	SG201AT	CA201AG	RCA
MLM239P	CA239AE	RCA	PM741CJ	ECG941	ECG	RV4136DD	ECG955M	ECG	SFC2307	CA211T	RCA	SG201J	CA201AG	RCA
MLM239L	LM239AN	SIC	PM741CY	ECG234	ECG	RV4136DD	ECG997	ECG	SFC2307DC	CA207T	RCA	SG201M	LM201AN	MOTA
MLM239P	CA239G	RCA	RC709DC	ECG909D	ECG	S100	ECG997	ECG	SFC2309R	CA307E	RCA	SG201N	LM201AH	MOTA
MLM239L	LM239F	SIC	RC709T	ECG909	ECG	S200	ECG948	ECG	SFC2311M	CA307E	RCA	SG201M	CA201G	RCA
MLM239P	CA239G	RCA	RC710DC	ECG910D	ECG	SA7805CDA	ECG125	ECG	SFC2311M	ECG931	ECG	SG201N	CA201E	RCA
MLM339AL	LM339AF	SIC	RC710T	ECG910	ECG	SA7805CU	ECG116	ECG	SFC2458C	CA311T	RCA	SG201N	LM201AN	MOTA
MLM339L	CA339AG	RCA	RC711T	ECG910	ECG	SA7812CDA	ECG116	ECG	SFC2458C	CA1458T	RCA	SG201N	CA201G	RCA
MLM339P	LM339AF	SIC	RC741DB	ECG910	ECG	SA7812CU	ECG931	ECG	SFC2458DC	CA1458T	RCA	SG201N	CA201E	RCA
MLM339L	CA339AG	RCA	RC741DB	ECG910	ECG	SE501K	ECG960	ECG	SFC2458M	CA1458E	RCA	SG201T	SK3565/1171	RCA
MLM339P	LM339AF	SIC	RC741DB	ECG910	ECG	SE501K	ECG933	ECG	SFC2458M	CA1558T	RCA	SG205	SK9005/5802	RCA
MLM339L	CA339AG	RCA	RC741DB	ECG910	ECG	SE515G	ECG966	ECG	SFC2709C	CA1558T	RCA	SG205N	SK9005/5802	RCA
MLM339P	LM339AF	SIC	RC741DB	ECG910	ECG	SE515K	ECG966	ECG	SFC2710C	ECG909	ECG	SG207D	LM205H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2711C	ECG910	ECG	SG207J	CA207G	RCA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	ECG911	ECG	SG207M	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CT	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339P	LM339F	SIC	RC741DB	ECG910	ECG	SE516G	ECG966	ECG	SFC2723C	CA723CE	RCA	SG207N	LM207H	MOTA
MLM339L	CA339G	RCA	RC741DB	ECG910	ECG	SE516G	ECG966							

13a. SUGGESTED REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
SG218J	MC1741SL	MOTA	SG747CN	CA747CG	RCA	SG4250T	MC1776G	MOTA	TL022MJG	LM158J	MOTA	TL082BCL	MC34002AG	MOTA
SG218M	MC1741SL	MOTA		CA747CE	RCA	SG7805CK	MC7805CK	MOTA	TL022ML	LM158H	MOTA	TL082BCP	CA082BE	RCA
SG218T	MC1741SG	MOTA	SG747CT	CA747CT	RCA	SG7806K	MC7806CK	MOTA	TL044CJ	LM324J	MOTA	TL082CJG	MC34002AP	MOTA
SG224J	ECG987	ECG		SK3526/947	RCA	SG7808K	MC7808CK	MOTA	TL044CN	LM324N	MOTA	TL082CL	CA082BE	RCA
SG224N	ECG987	ECG	SG747D	CA747G	RCA		MC7808CK	MOTA	TL044MJ	LM124J	MOTA	TL082CP	MC34002U	MOTA
SG301AD	LM301AH	MOTA	SG747T	CA747T	RCA	SG7812K	MC7812CK	MOTA	TL071ACJG	LM124J	MOTA	TL082CL	MC34002G	MOTA
SG301AM	CA301AG	RCA	SG1458M	CA1458G	RCA	SG7815K	MC7815CK	MOTA	TL071ACJG	MC34001BU	MOTA	TL082CP	MC34002P	MOTA
SG301AE	CA301AE	RCA		CA1458E	RCA	SG7818K	MC7818CK	MOTA	TL071ACL	MC34001BG	MOTA	TL082CP	CA082E	RCA
SG301AN	SK3641/975	RCA	SG1458T	CA1458T	RCA	SG7824K	MC7824CK	MOTA	TL071ACP	MC34001BP	MOTA	TL082IL	CA082E	RCA
SG301AT	LM301AN	MOTA	SG1496N	MC1496L	MOTA	SN74LS624J	ECG74LS624	ECG	TL071ACJG	ECG857M	ECG	TL082IL	CA082T	RCA
SG301AT	CA301AT	RCA		MC1496L	MOTA	SN74LS624N	ECG74LS624	ECG	TL071BCJG	MC34001AU	MOTA	TL082ML	CA082T	RCA
SG301N	SK3565/1171	RCA	SG1501AD	MC1501A	MOTA	SN74LS625J	ECG74LS625	ECG	TL071BCP	MC34001AP	MOTA	TL083ACN	CA083AE	RCA
SG301N	CA301G	RCA	SG1501AT	MC1501A	MOTA	SN74LS625N	ECG74LS625	ECG	TL071CJG	MC34001U	MOTA	TL083CN	CA083E	RCA
SG301T	CA301E	RCA	SG1502D	MC1502D	MOTA	SN74LS626J	ECG74LS626	ECG	TL071C1	MC34001G	MOTA	TL084ACJ	MC34004BL	MOTA
SG305	SK9007/5804	RCA	SG1502N	MC1502N	MOTA	SN74LS626J	ECG74LS626	ECG	TL072ACJG	MC34002BU	MOTA	TL084ACN	MC34004BP	MOTA
SG305AT	LM305H	MOTA	SG1524J	MC3520L	MOTA	SN74LS627J	ECG74LS627	ECG	TL072ACL	MC34002BG	MOTA	TL084BCJ	MC34004AL	MOTA
SG305N	LM305H	MOTA		CA1524G	RCA	SN74LS627N	ECG74LS627	ECG	TL072ACP	MC34002BP	MOTA	TL084BCN	MC34004AP	MOTA
SG307D	CA307G	RCA	SG1558T	CA1558T	RCA	SN74LS629J	ECG74LS629	ECG	TL072BCJG	MC34002AU	MOTA	TL084CJ	MC34004L	MOTA
SG307J	LM307N	MOTA	SG1660D	LM301AH	MOTA	SN74LS629J	ECG74LS629	ECG	TL072BCN	MC34992AG	MOTA	TL084CN	MC34004L	MOTA
SG307N	LM307N	MOTA	SG1660J	LM308J	MOTA	SN74LS629N	ECG74LS629	ECG	TL072BCP	MC34002AP	MOTA	TL084CN	MC34004P	MOTA
SG307N	CA307G	RCA	SG1660M	LM308N	MOTA	TAA521	ECG909	ECG	TL072CJG	MC34003U	MOTA	TL491CN	ECG1507	ECG
SG307E	CA307E	RCA	SG1660T	LM308H	MOTA	TAA521A	ECG909D	ECG	TL072CJG	MC34003U	MOTA	TL497CJ	MC3429L	MOTA
SG307T	CA307T	RCA	SG1760D	LM307H	MOTA	TAA522	ECG909	ECG	TL072CN	MC34002G	MOTA	TL497CN	MC3420P	MOTA
SG308AM	ECG938M	ECG	SG1760F	LM307H	MOTA	TBA221	CA741CT	RCA	TL072CP	MC34002P	MOTA	TL497MJ	MC3520L	MOTA
SG308AT	ECG938	ECG	SG1760J	LM308J	MOTA		ECG941	ECG	TL074ACJ	ECG858M	ECG	uA78H05KC	ECG932	ECG
SG308AY	ECG938M	ECG	SG1760M	LM308N	MOTA	TBA222	ECG941	ECG	TL074ACN	MC34004BL	MOTA	uA78L02ACJG	MC78L02ACG	MOTA
SG308M	ECG938M	ECG	SG1760T	LM308H	MOTA	TBA281	CA741T	RCA	TL074ACN	MC34004BP	MOTA	uA78L05	SK3462/977	RCA
SG308T	ECG938	ECG	SG2118AJ	LM208AJ	MOTA		ECG941	ECG	TL074BCJ	MC34004A	MOTA	uA78L05AC	SK3462/977	RCA
SG308Y	ECG938M	ECG	SG2118AM	LM208AJB	MOTA	TBB0747	CA723CT	RCA	TL074BCL	MC34001AG	MOTA	uA78L05ACJG	SK3462/977	RCA
SG309K	ECG309K	ECG	SG2118AT	LM208AH	MOTA		ECG281	ECG	TL074BCN	MC34004AP	MOTA	uA78L05ALP	MC78L05ACG	MOTA
SG310M	ECG924M	ECG	SG2118J	LM208J	MOTA	TBB0747A	CA747CE	RCA	TL074CJ	MC34004L	MOTA	uA78L05ALP	SK3462/977	RCA
SG310T	ECG924	ECG	SG2118M	LM208J	MOTA		ECG947D	ECG	TL074CN	MC34004P	MOTA	uA78L05AWC	SK3462/977	RCA
SG311D	CA311G	RCA	SG2118T	LM208J	MOTA	TBB0748	CA748CT	RCA	TL080ACP	ECG859	ECG	uA78L05CJG	MC78L05CG	MOTA
SG311M	SK3668	RCA	SG2250T	LM208H	MOTA		ECG1171	ECG	TL080AMD	CA080BE	RCA	uA78L05CLP	SK3462/977	RCA
SG311T	CA311G	RCA	SG2401N	MC1776G	MOTA	TBB0748B	CA748CE	RCA	TL080AML	CA080CT	RCA	uA78L05S	SK3462/977	RCA
SG320K5.2	MC7905.2CK	MOTA	SG2401N	MC1433G	MOTA		ECG975	ECG	TL080AMD	CA080CT	RCA	uA78L05WC	SK3462/977	RCA
SG320T5.2	MC7905.2CK	MOTA	SG2402N	MC1494L	MOTA	TBB1458	CA1458CT	RCA	TL080BCP	CA080AT	RCA	uA78L06	SK3462/977	RCA
SG323	SK9067	RCA	SG2402T	MC1494L	MOTA		ECG778A	ECG	TL080CL	CA080BE	RCA	uA78L06A	SK3831	RCA
SG323K	ECG931	ECG	SG2501AD	MC1468L	MOTA	TBC0747	CA747T	RCA	TL080CL	CA080CT	RCA	uA78L06A	SK3831	RCA
SG324N	ECG987	ECG	SG2501AT	MC1468G	MOTA		CA747T	RCA	TL080CP	CA080E	RCA	uA78L06ACJG	SK3724/981	RCA
SG723CD	CA723CE	RCA	SG2502D	MC1468L	MOTA	TBC0748	CA748T	RCA	TL080ML	CA080T	RCA	uA78L06AWC	SK3831	RCA
SG723CN	CA723CE	RCA	SG2502N	MC1468L	MOTA		ECG1171	ECG	TL081ACJG	MC34001BU	MOTA	uA78L06CJG	SK3831	RCA
SG723CT	CA723CT	RCA	SG2502T	MC1468G	MOTA	TBC1458	CA1458T	RCA	TL081ACL	MC34001BG	MOTA	uA78L06CG	MC78L06CG	MOTA
SG723T	SK3164/923	RCA	SG2524J	MC3520L	MOTA	TDA0748D	CA748CE	RCA	TL081ACL	MC34001AG	MOTA	uA78L08	SK3724/981	RCA
SG741	SK3514/941	RCA		CA2524G	RCA		ECG975	ECG	TL081ACP	MC34001BP	MOTA	uA78L08AC	SK3724/981	RCA
SG741CD	CA741CG	RCA	SG3058	SK3541/914	RCA	TDB0124DP	CA324CE	RCA	TL081ACP	CA081AE	RCA	uA78L08ACJG	SK3724/981	RCA
SG741CM	SK3552/941M	RCA	SG3059	SK3514/914	RCA		CA2524G	RCA	TL081AML	ECG857M	ECG	uA78L08ACJG	MC78L08ACG	MOTA
SG741CN	CA741CG	RCA	SG3250T	MC1776G	MOTA	TDB0723A	CA723CE	RCA	TL081AML	CA081AT	RCA	uA78L08C	SK3724/981	RCA
SG741CT	CA741CE	RCA	SG3401N	MC1433G	MOTA		CA723CE	RCA	TL081BCJG	MC34001AU	MOTA	uA78L08CJG	MC78L08CG	MOTA
SG741CT	SK3514/941	RCA	SG3402N	MC1494L	MOTA	TDB7805	SK3629/309K	RCA	TL081BCL	MC34001AG	MOTA	uA78L08CLP	SK3724/981	RCA
SG741M	SK3514/941	RCA	SG3402T	MC1494L	MOTA		SK3591/960	RCA	TL081BCL	MC34001AG	MOTA	uA78L08CLP	SK3724/981	RCA
SG741T	SK3514/941	RCA	SG3502D	MC1468L	MOTA	TDB7805T	SK3669/962	RCA	TL081BCP	MC34001AP	MOTA	uA78L08CLP	SK3724/981	RCA
SG741T	SK3514/941	RCA	SG3502G	MC1468G	MOTA		SK3630/964	RCA	TL081BCP	CA081BE	RCA	uA78L08CJG	SK3724/981	RCA
SG747CD	CA747CG	RCA	SG3502N	MC1468L	MOTA	TDB7808T	SK3630/964	RCA	TL081CJG	MC34001U	MOTA	uA78L08CJG	MC78L12ACG	MOTA
SG747CD	SK3556/947D	RCA	SG3524J	MC3420L	MOTA		SK3592/966	RCA	TL081CJG	MC34001U	MOTA	uA78L08CJG	MC78L12CG	MOTA
				CA3524G	RCA	TDB7812T	SK3593/968	RCA	TL081CL	MC34001G	MOTA	uA78L08CJG	MC78L15ACG	MOTA
				MC1776CP1	MOTA		SK3593/968	RCA	TL081CL	CA081CT	RCA	uA78L08CJG	MC78L15ACG	MOTA
				MC1776CG	MOTA	TDC0555	CA555T	RCA	TL081CP	MC34001P	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA555T	RCA	TL081CP	CA081E	RCA	uA78L08CJG	MC78L15ACG	MOTA
							ECG857M	ECG	TL081ML	ECG857M	ECG	uA78L08CJG	MC78L15ACG	MOTA
							CA081T	RCA	TL081ML	CA081T	RCA	uA78L08CJG	MC78L15ACG	MOTA
							CA081E	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							ECG857M	ECG	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081T	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081E	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							ECG857M	ECG	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081T	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081E	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							ECG857M	ECG	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081T	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081E	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							ECG857M	ECG	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081T	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081E	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							ECG857M	ECG	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081T	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081E	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							ECG857M	ECG	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081T	RCA	TL082ACJG	MC34002BU	MOTA	uA78L08CJG	MC78L15ACG	MOTA
							CA081E	RCA	TL082ACJG	MC34002BU				

13a. SUGGESTED REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
uA78M05UC	SK3591/960	RCA	uA79M18UC	MC7918CT	MOTA	uA555HM	CA555T	RCA	uA730HC	MC1420G	MOTA	uA746DC (Cont'd)	SK3077/790	RCA
uA78M06CKC	SK3669/962	RCA	uA79M24AHM	MC7924CK	MOTA	uA555TC	CA555CG	RCA	uA730HM	MC1520G	MOTA	uA746DIP	SK3077/790	RCA
uA78M06HM	MC78M06CG	MOTA	uA79M24AUC	MC7924CT	MOTA	uA703	CA555CE	RCA	uA732DC	MC1310P	MOTA	uA746HC	MC1323P	MOTA
uA78M06UC	SK3669/962	RCA	uA79M24CKC	SK3675/971	RCA	uA703C	SK3157/703A	RCA	uA723PC	MC1310P	MOTA	uA746PC	SK3134/705A	RCA
uA78M08CKC	SK3630/964	RCA	uA79M24CKD	SK3675/971	RCA	uA703CT	SK3157/703A	RCA	uA733	SK9017	RCA	uA746PC	CA3072	RCA
uA78M08CKD	SK3630/964	RCA	uA79M24HM	SK3675/971	RCA	uA703E	SK3157/703A	RCA	uA733C	SK9017	RCA	uA747	SK3077/790	RCA
uA78M08HM	MC78M08CG	MOTA	uA79M24UC	MC7924CT	MOTA	uA703HC	SK3157/703A	RCA	uA739C	SK9017	RCA	uA747	SK3526/947	RCA
uA78M08UC	SK3630/964	RCA	uA79M24UC	MC7924CT	MOTA	uA709	SK3157/703A	RCA	uA739PC	SK3165/923D	RCA	uA747ADM	MC1741L	MOTA
uA78M12CKC	SK3592/966	RCA	uA79M24UC	MC7924CT	MOTA	uA705	SK3455/804	RCA	uA734DC	LM311J	MOTA	uA747AHM	MC1747G	MOTA
uA78M12CKD	SK3592/966	RCA	uA101AD	LM101AJ	MOTA	uA709A	SK3590/909D	RCA	uA734DM	LM311J	MOTA	uA747C	SK3526/947	RCA
uA78M12HM	MC78M12CG	MOTA	uA101AH	CA101AG	RCA	uA709ADM	ECG909D	ECG	uA734HC	LM311H	MOTA	uA747CA	CA747CE	RCA
uA78M12UC	SK3592/966	RCA	uA101AF	CA101AT	RCA	uA709CT	SK3590/909D	RCA	uA734HM	LM311H	MOTA	uA747CF	SK3556/947D	RCA
uA78M15CKC	SK3593/968	RCA	uA101D	LM101AJ	MOTA	uA709C	SK3590/909D	RCA	uA737E	SK3134/705A	RCA	uA747CJ	SK3556/947D	RCA
uA78M15CKD	SK3593/968	RCA	uA101F	LM101AJ	MOTA	uA709CT	SK3590/909D	RCA	uA739	SK3162/725	RCA	uA747CG	CA747CG	RCA
uA78M15HM	MC78M15CG	MOTA	uA101H	CA101T	RCA	uA709DC	SK3590/909D	RCA	uA739C	SK3162/725	RCA	uA747CK	SK3556/947D	RCA
uA78M18HM	MC78M18CG	MOTA	uA101H	CA101T	RCA	uA709DM	SK3590/909D	RCA	uA739C	SK3162/725	RCA	uA747CT	CA747CT	RCA
uA78M20HM	MC78M20CG	MOTA	uA107H	CA107T	RCA	uA709DM	SK3590/909D	RCA	uA739DC	SK3162/725	RCA	uA747CN	SK3526/947	RCA
uA78M24CKC	SK3670/972	RCA	uA111H	SK3690	RCA	uA709PC	SK3590/909D	RCA	uA739PC	SK3162/725	RCA	uA747CL	ECG947	ECG
uA78M24CKD	SK3670/972	RCA	uA111R	CA111T	RCA	uA710	SK3553	RCA	uA739PC	SK3162/725	RCA	uA747CL	CA747CT	RCA
uA78M24HM	MC78M24CG	MOTA	uA111R	CA111T	RCA	uA710C	SK3553	RCA	uA740HC	LF355H	MOTA	uA747CN	CA747CG	RCA
uA78M24UC	SK3670/972	RCA	uA201AD	LM210AJ	MOTA	uA710C	SK3553	RCA	uA740HM	LF155H	MOTA	uA747CN	CA747CE	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710DC	ECG910D	ECG	uA741	SK3514/941	RCA	uA747DC	SK3556/947D	RCA
uA78M24UC	SK3670/972	RCA	uA201AD	LM210AJ	MOTA	uA710DC	ECG910D	ECG	uA741A	SK3514/941	RCA	uA747DC	SK3556/947D	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741A	SK3514/941	RCA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741L	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	3552/941M	RCA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741F	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA	uA201AF	CA201AG	RCA	uA710HC	ECG910D	ECG	uA741ADM	MC1741G	MOTA	uA747DM	CA747G	RCA
uA78M24UC	SK3670/972	RCA												

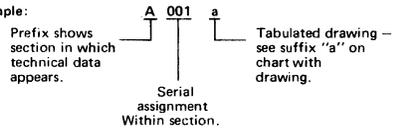
13a. SUGGESTED REPLACEMENT LINEAR DEVICES

Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code	Type No.	Alternate Type	Mfr. Code
uA748MP	CA748G	RCA	uA786DC	MC1327P	MOTA	uA7824C	SK3670/972	RCA						
	CA748E	RCA	uA787	SK3158/797	RCA	uA7824UC	SK3670/972	RCA						
	SK3644	RCA	uA787PC	MC1399P	MOTA	uA7905AC	SK3671/961	RCA						
uA748P	SK3644	RCA		CA3126Q	RCA	uA7905C	SK3671/961	RCA						
uA748T	CA748E	RCA	uA791KC	MC1438R	MOTA	uA7905KM	MC7905CK	MOTA						
	SK3645	RCA	uA791KM	MC1538R	MOTA	uA7905UC	SK3671/961	RCA						
uA748TC	CA748CG	RCA	uA791P5	MC1438R	MOTA	uA7906CKC	SK3672/963	RCA						
	CA748CE	RCA	uA799HC	MC1741G	MOTA	uA7906KM	MC7906CK	MOTA						
	CA748CT	RCA	uA799HM	MC1741G	MOTA	uA7906UC	SK3672/963	RCA						
	SK3641/975	RCA	uA1391T	CA1391E	RCA	uA7908CKC	ECG965	ECG						
uA748V	SK3641/975	RCA	uA1394T	CA1394E	RCA	uA7908KM	MC7908CK	MOTA						
uA749	SK3166/949	RCA	uA1458	SK3465/778A	RCA	uA7908UC	ECG965	ECG						
uA749D	SK3166/949	RCA	uA1458HC	CA1458T	RCA	uA7912CKC	SK3673/967	RCA						
uA749DC	MC1435L	MOTA		CA1458G	RCA	uA7912CK	MC7912CK	MOTA						
uA749DHC	MC1435G	MOTA	uA1458R1	CA1458G	RCA	uA7912UC	SK3673/967	RCA						
	SK3166/949	RCA	uA1458TC	ECG778A	ECG	uA7915CKC	SK3674/969	RCA						
uA749DM	MC1535L	MOTA	uA1558HM	CA1558T	RCA	uA7915KM	MC7915CK	MOTA						
uA749HC	MC1435G	MOTA	uA3018AHM	SK3542/904	RCA	uA7915UC	SK3674/969	RCA						
uA753	SK3163/736	RCA	uA3018HM	SK3542/904	RCA	uA7918CKC	ECG965	ECG						
uA753C	SK3163/736	RCA	uA3019HM	SK3546/905	RCA	uA7918KM	MC7918CK	MOTA						
uA753TC	MC1356P	MOTA	uA3026HM	SK3548/906	RCA	uA7924CKC	SK3675/971	RCA						
	SK3163/736	RCA	uA3036HM	SK3548/906	RCA	uA7924KM	MC7924CK	MOTA						
uA754HC	MC1355P	MOTA	uA3045DM	SK3543/912	RCA	uA7924UC	SK3675/971	RCA						
uA754TC	MC1355P	MOTA	uA3046DC	SK3543/912	RCA	uPC151A	CA741CT	RCA						
uA757DC	MC1350P	MOTA	uA3054DC	SK3544/917	RCA	uPC151C	CA741CG	RCA						
uA757DM	MC1350P	MOTA	uA3064	SK3141/780	RCA		CA741CE	RCA						
uA758	SK3172/743	RCA	uA3064HC	SK3141/780	RCA	uA157A	CA301AT	RCA						
uA758DC	MC1310P	MOTA	uA3064PC	SK3215/783	RCA	uPC157C	CA301AG	RCA						
uA758PC	MC1310P	MOTA	uA3064TC	SK3215/783	RCA		CA301AE	RCA						
	CA758E	RCA	uA3089PC	SK3688/992	RCA	uPC177C	CA339G	RCA						
uA767	SK3161/722	RCA	uA7805	SK3591/960	RCA	uPC251A	CA747CT	RCA						
uA767C	SK3161/722	RCA	uA7805C	SK3462/977	RCA	uPC251C	CA1458G	RCA						
uA767DC	MC1310P	MOTA	uA7805CDA	SK3629/309K	RCA		CA1458E	RCA						
	SK3161/722	RCA	uA7805CU	ECG931	ECG	uPC271C	CA311E	RCA						
uA767PC	MC1310P	MOTA	uA7805KC	SK3629/309K	RCA	uPC301AC	CA301AG	RCA						
	SK3161/722	RCA	uA7805UC	ECG931	ECG		CA301AE	RCA						
uA772	MC1741S	MOTA	uA7806C	SK3462/977	RCA	uPC311C	CA311G	RCA						
uA776DC	MC1776CG	MOTA	uA7806CKC	SK3669/962	RCA		CA311E	RCA						
uA776DM	MC1776G	MOTA	uA7806UC	SK3669/962	RCA	uPC324C	CA324G	RCA						
uA777CJ	LM308AJ-8	MOTA	uA7808C	SK3630/964	RCA		CA324E	RCA						
uA777CJG	LM308AJ-8	MOTA	uA7808CKC	SK3630/964	RCA	uPC339C	CA339G	RCA						
uA777CL	LM308AH	MOTA	uA7808CU	SK3630/964	RCA		CA339E	RCA						
uA777CN	LM308AN	MOTA	uA7808UC	SK3669/962	RCA		ECG834	ECG						
uA777CP	LM308AN	MOTA	uA7812C	SK3592/966	RCA	uPC358C	ECG928M	ECG						
uA777DC	LM308AJ-8	MOTA	uA7812CKC	SK3592/966	RCA	uPC451C	CA324E	RCA						
uA777HC	LM308AH	MOTA	uA7812KC	ECG958	ECG		CA741CG	RCA						
uA777MJ	LM108AJ-8	MOTA	uA7812UC	ECG933	ECG	uPC741C	CA741CE	RCA						
uA777MJJ	LM108AJ-8	MOTA	uA7815	SK3593/968	RCA		ECG1085	ECG						
uA777ML	LM108AH	MOTA	uA7815C	SK3593/968	RCA	uPC1023H	CA1458C							
uA777TC	LM308AN	MOTA	uA7815CKC	SK3593/968	RCA		CA1458G	RCA						
uA780	SK3075/714	RCA	uA7815CU	SK3593/968	RCA	uPC1458C	CA1458E	RCA						
uA780C	SK3075/714	RCA	uA7818C	SK3699	RCA									
uA780DC	MC1399P	MOTA												
	SK3075/714	RCA												
uA780PC	MC1399P	MOTA												
	CA3070	RCA												
	SK3075/714	RCA												
uA781	SK3076/715	RCA												
uA781C	SK3076/715	RCA												
uA781DC	MC1399P	MOTA												
	SK3076/715	RCA												
uA781PC	MC1399P	MOTA												
	CA3071	RCA												
	SK3076/715	RCA												

14. CIRCUIT DRAWINGS

CIRCUIT DRAWING NUMBERING SIGNIFICANCE

Example:



Letter Prefix	Applies To Technical Section No.
A:	Operational Amplifiers - 3
B:	Differential Amplifiers - 4
D:	RF/IF Amplifiers - 6
E:	Wideband Amplifiers - 7
F:	Voltage Regulators - 8
G:	Voltage Comparators - 9
X-:	*Special Functions - 10
Z-:	*Miscellaneous - 12

* No. following X & Z indicates Use Code

NOTES

These outline drawings are intended as a guide for the user. They should not be used for construction purposes without first checking with the appropriate manufacturer.

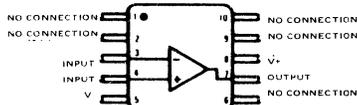
These drawings are referenced in the Technical Sections of this D.A.T.A. BOOK in accordance with information supplied by the manufacturers.

The DO and TO drawings have been reproduced from JEDEC Registration Data Files with the permission of the National Electrical Manufacturer's Association - Electronic Industries Association. JEDEC designations are assigned only to outlines submitted by the JC-11 Committee on Mechanical Standardization. The procedure of assigning and announcing the JEDEC designation constitutes registration.

All drawings have circular symmetry unless otherwise indicated.

A001

FLAT PACK



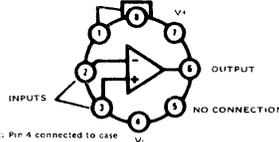
Note: Pin 5 connected to bottom of package.

Order Number LH101F
See Package 3

Low Drift Thermocouple Amplifier

A001a

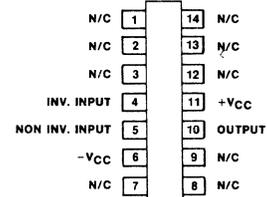
METAL CAN NO CONNECTION



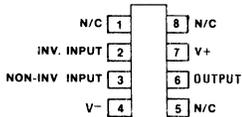
Note: Pin 4 connected to case.

Order Number LH101H
See Package 11

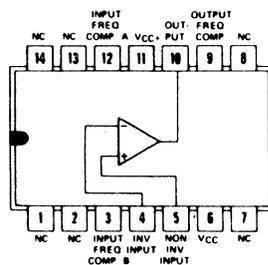
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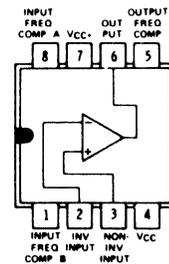
A001d



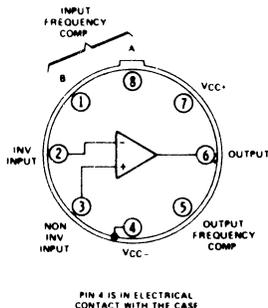
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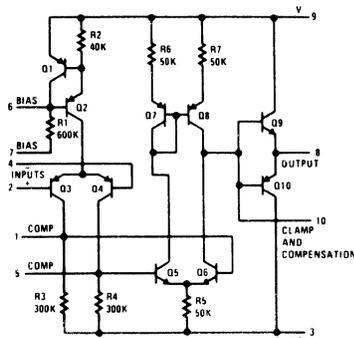
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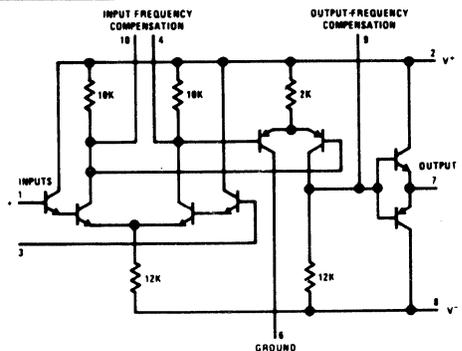
A003c



A004



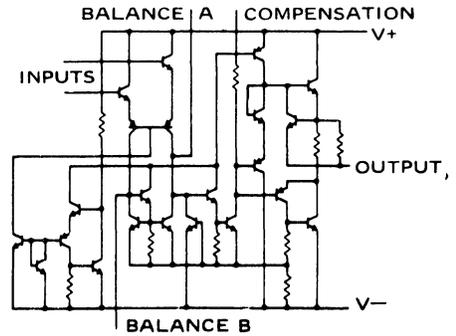
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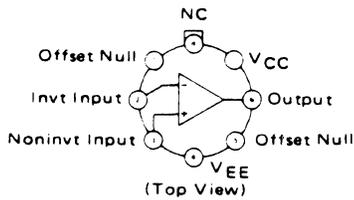
14. CIRCUIT DRAWINGS

A012,

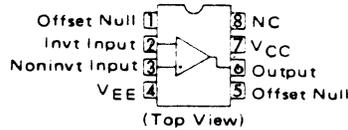
A012	PKG	BAL		COMP	INPUTS		V		OUTPUT
		A	B		-	+	+	-	
	MP48	1	5	8	2	3	7	4	6
	TO89	2	6	9	3	4	8	5	7
	CN	1	5	8	2	3	7	4	6
	PF	3	9	12	4	5	11	8	10
	TC116								



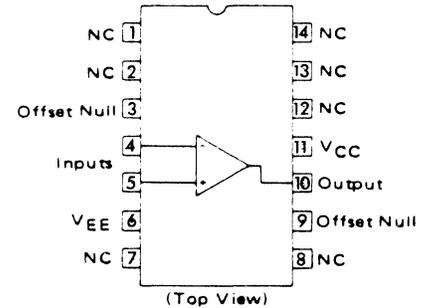
A014



A014a

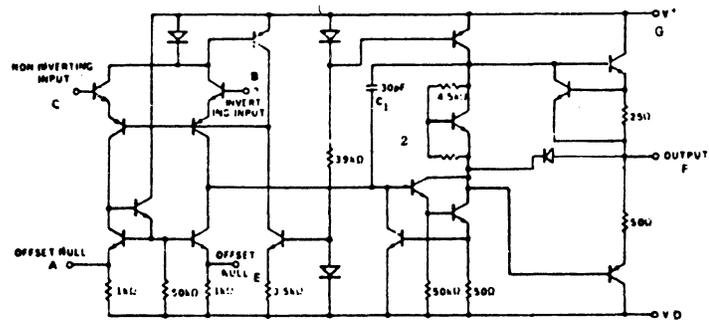


A014b



A014c

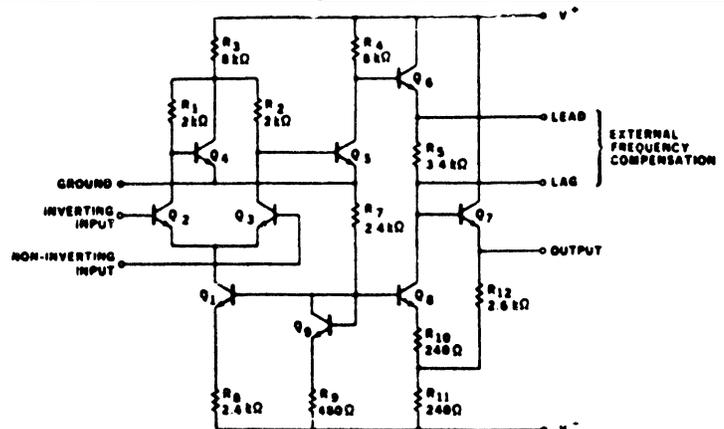
A014c	CKT NO	PKG	A	B	C	D	E	P	G
	1	MP		2	3	4		1	8
	2			6	5			7	



A015

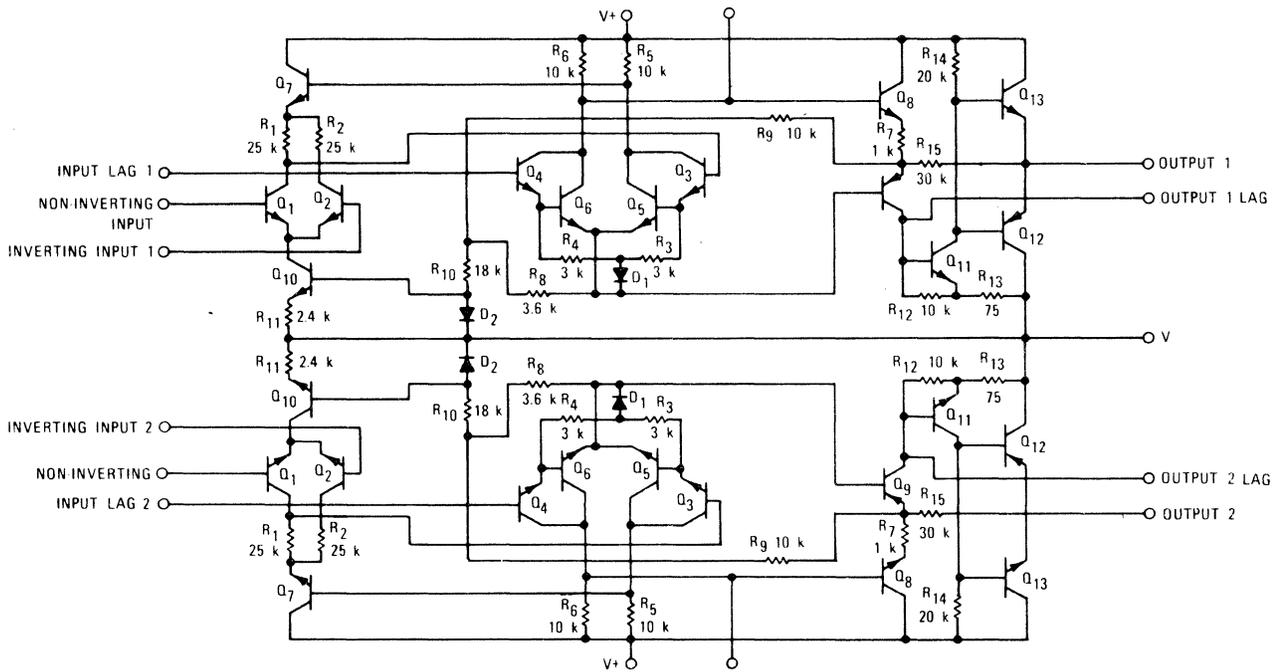
	COM	INV IN	NON INV IN	V-	LAG	LEAD	OUT	V	NC
TO77 and TO99	1	2	3	4*	6	5	7	8	
PF	2	3	4	5	7	6	8	10	1,9
TO116	3	4	5	6	10	9	11	13	

* CONNECTED TO CASE

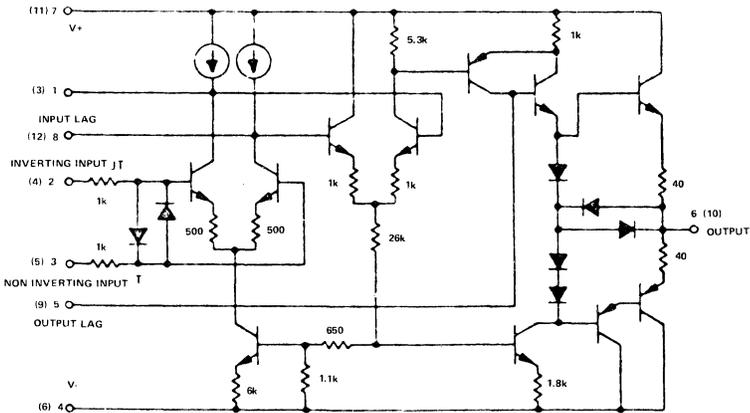


14. CIRCUIT DRAWINGS

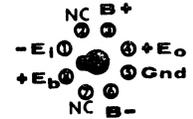
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A037



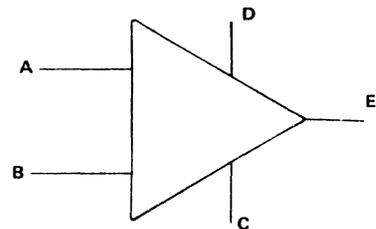
A039



STD. OCTAL BASE PLUG

CONNECTIONS
(Base)

N.C. = No Internal Connection,
may be used as tie point

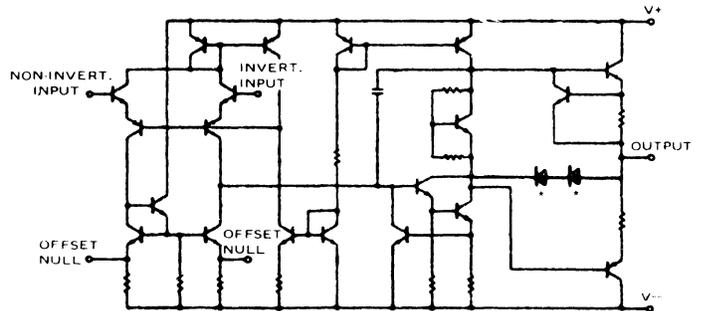


	A	B	C	D	E	COM
A039	-E1	+Eb	B+	B-	+Eo	5
A039a	-IN	+IN	-Vcc	+Vcc	OUT	6

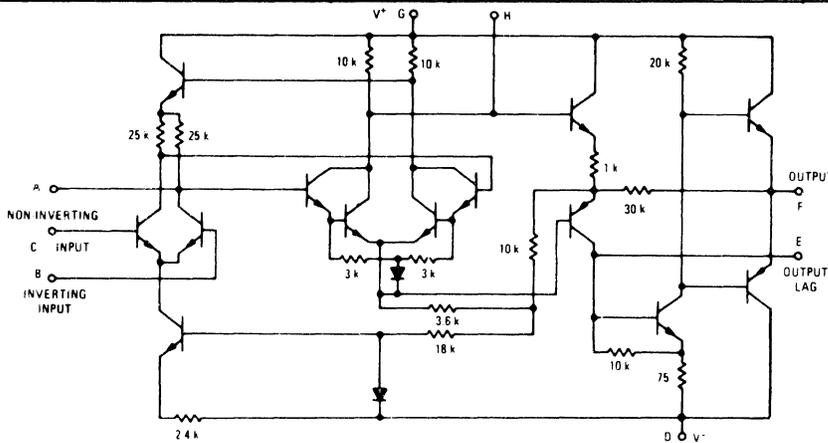
14. CIRCUIT DRAWINGS

A042

	PKG	CKT	V+	V-	INPUT			OFFSET		NULL		OUTPUT	DIODES*
					INV	NON INV	NON INV	1	2	1	2		
A042	TO99, TO116 and CH	1	7	4	2	3		1	5	6		NONE	
	FP or MP	1	11	6	4	5		3	9	10			
A042a	MP, TO100 and TO116	1	13	4	1	2		3	5	12		NONE	
		2	9	7	6			8	14	10			
A042d	TO99	1	2	5	3	4				1		NONE	
		2	8	5	7	6				9			
A042f	TO99	1	7	4	2	3		1	5	6		NONE	
A042g	TO91	1	8	5	3	4		2	6	7		NONE	
A042h	MP or CN	1	8	4	2	3				1		NONE	
		2	8	4	6	5				7			
A042k	CN or MP	1	7	4	2	3		1	5	6		NONE	
	TO91	1	8	5	3	4		2	6	7			
	TO116 or MP	1	11	6	4	5		3	9	10			
A042m	TO99 or CN	1	7	4	2	3		1	5	6		NONE	
	FP or MP	1	11	6	4	5		3	9	10			
A042n	CN or FP	1	2	5	3	4				1		NONE	
		2	8	5	7	6				9			
	MP	1	13	4	1	2		3	14	12			
		2	9	7	6	5		5	8	10			
A042p	CN or MP	1	8	4	2	3				1		2	
		2	8	4	6	5				7			
A042q	FP or MP	1	13	4	1	2		3	14	12		NONE	
		2	9	7	6	5		5	8	10			
A042r	TO79	1	7	4	2	3		1	5	6		NONE	
A042s	CN or FP	1	2	5	3	4				1		1	
		2	8	5	7	6				9			
	MP	1	13	4	1	2		3	14	12			
		2	9	7	6	5		5	8	10			
A042t	TO99 or CN	1	2	5	3	4				1		2	
		2	8	5	7	6				9			
A042u	MP	1	13	4	1	2		3	5	12		2	
		2	9	7	6	8		8	14	10			

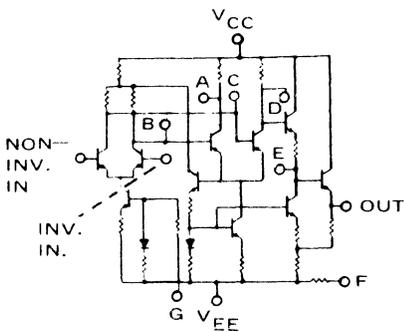


A043



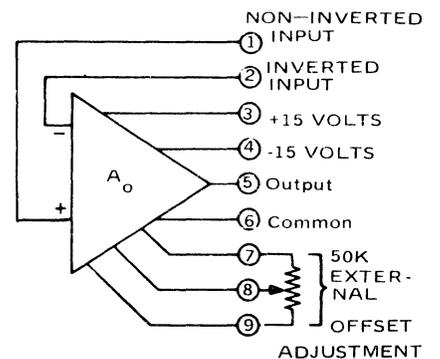
	A	B	C	D	E	F	G	H
TO99 and RC	1	2	3	4	5	6	7	8
TO91	2	3	4	5	6	7	8	9
MP	3	4	5	6	9	10	11	12

A051



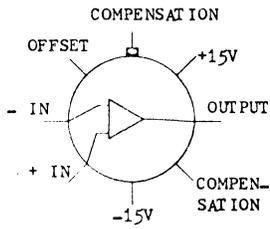
PACKAGE	NON INV IN	INV IN	VEE	VCC	RC1	RC2	RC3	RC4	RC5	RC6	RC7	RC8	RC9	RC10	RC11	RC12
A051	4	3	6	13	12	14	1	9	10	11	8	2				
	3	2	4	10	9	11	12	6	7	5	1					

A062

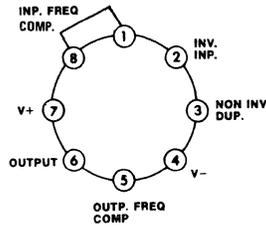


14. CIRCUIT DRAWINGS

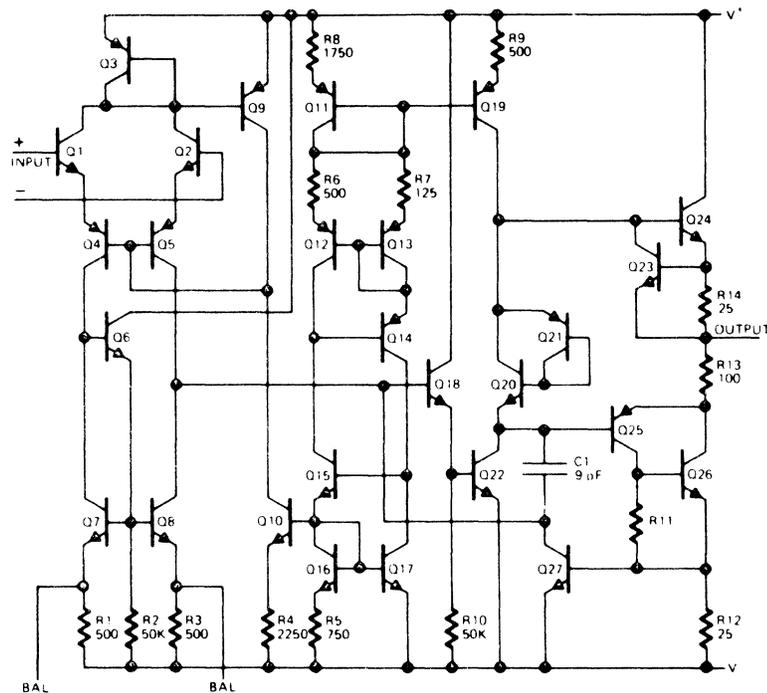
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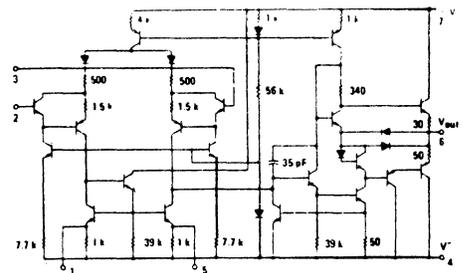
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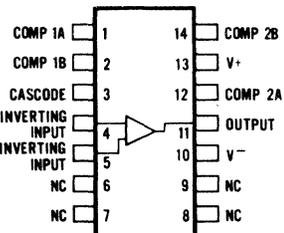
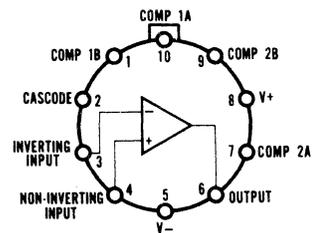
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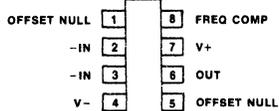
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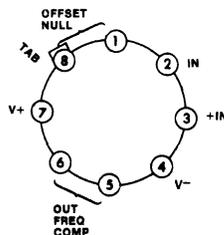
A106



A107



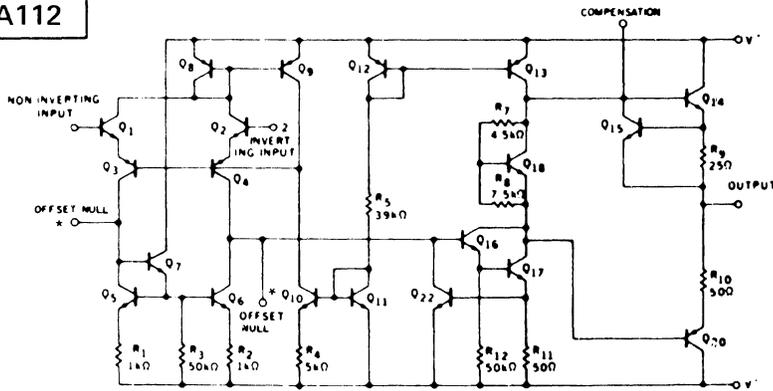
A107a



PACKAGE	COMP 1A	INV INP	V+	V-	OUT
TO100	10	3	8	5	6
MP151	1	4	13	10	11

14. CIRCUIT DRAWINGS

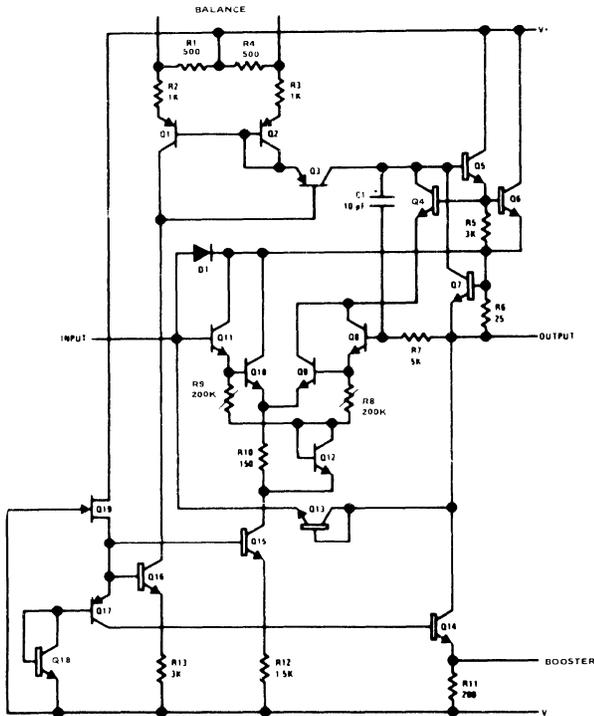
A112



A112	PKT	V+	V-	INPUT		OFFSET NULL		OUT	COMP
				INV	NON INV	1	2		
A112a	1	7	4	2	3	5	1	6	8
A112b	CN or MP	1	7	4	2	3	1	5	6
A112c	MP or TO116	1	11	6	4	5	3	9	12
A112c	EP	1	8	5	3	4	2	6	7

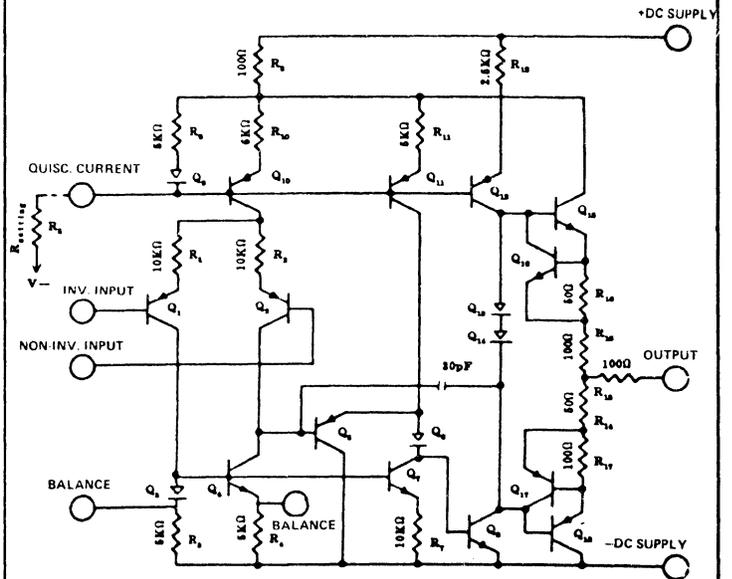
*A112a - OMIT OFFSET NULL.

A122



A122	PKG	IN	V-	V+	BIAS	OUT	BALANCE
CN	3	4	7	5	6	1,8	
EP	4	5	8	6	7	2,9	
DIP(14)	5	6	11	9	10	3,12	
DIP(8)	3	4	7	5	6	1,8	

A123



A123	PKG.	CKT	BAL	INV. IN	NON INV. IN	NEG SUP	BAL	OUT	POS SUP	QUIESC. CURRENT
A123	TO99	1	1	2	3	4	5	6	7	8
	MP	1	1	2	3	4	5	6	7	8
		2	6	7	8	9	4	5	14	
		3	11	12	8	13	4	10		
A123a	TO99	1	5	2	3	4	1	6	7	8
A123b	CN, MP	1	1	2	3	4	5	6	7	8

14. CIRCUIT DRAWINGS

A155 TOP VIEWS

DUAL-IN-LINE

METAL CAN
FREQ COMP

FLAT PACKAGE

NOTES:

- (1) On Metal Can, pin 4 is connected to case.
- (2) On DIP, pin 6 is connected to bottom of package.
- (3) On Flat Package, pin 5 is connected to bottom of package.

A156 TOP VIEW

DUAL-IN-LINE

FLAT PACKAGE

A159

A160

METAL CAN

NOTES:

- (1) On Metal Can, pin 4 is connected to case.
- (2) On DIP, pin 6 is connected to bottom of package.
- (3) On Flat Package, pin 5 is connected to bottom of package.

A162

A163

FEEDFORWARD

TOP VIEW

A172

PIN NUMBERS

	1	2	3	4	5	6	7	8	9	10
A172	N.C.	BALANCE	INV. INP	NON INV. INP	V-	BALANCE	OUTP	V	N.C.	N.C.
A172a	N.C.	BALANCE/COMP	INV. INP	NON INV. INP	V-	BALANCE	OUTP	V	COMP.	N.C.
A172b	N.C.	N.C.	INV. INP	NON INV. INP	V-	N.C.	OUTP	V	N.C.	N.C.
A172c	N.C.	VOS TRIM	INV. INP	NON INV. INP	V-	COMP.	OUTP	V	VOS TRIM	N.C.
A172d	N.C.	LINE LAG	INV. INP	NON INV. INP	-VS	OUT LAG	OUT	V	LINE LAG	N.C.
A172e	N.C.	GUARD	INV. INP	NON INV. INP	GUARD	V-	OUTP	V	OUTP COMP	INF COMP

A173

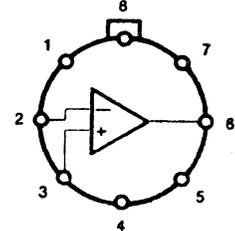
PIN NUMBERS

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A173	N.C.	N.C.	BALANCE	INV. INP	NON INV. INP	V-	N.C.	N.C.	BALANCE	OUTP	V	N.C.	N.C.	N.C.
A173a	N.C.	N.C.	BALANCE/COMP.	INV. INP	NON INV. INP	V-	N.C.	N.C.	BALANCE	OUTP	V	COMP.	N.C.	N.C.
A173b	N.C.	N.C.	N.C.	INV. INP	NON INV. INP	V-	N.C.	N.C.	N.C.	OUTP	V	N.C.	N.C.	N.C.
A173c	N.C.	N.C.	VOS TRIM	INV. INP	NON INV. INP	V-	N.C.	N.C.	COMP.	OUTP	V	VOS TRIM	N.C.	N.C.
A173d	N.C.	OFF ADJ. A	INV. INP	NON INV. INP	-VS	N.C.	N.C.	N.C.	N.C.	OFF ADJ. B	OUT VS	INF COMP	N.C.	N.C.
A173e	N.C.	OFF ADJ. A	INV. INP	NON INV. INP	-VS	N.C.	N.C.	N.C.	N.C.	OFF ADJ. B	OUT VS	N.C.	N.C.	N.C.
A173f	N.C.	INP. LAG.	INV. INP	NON INV. INP	-VS	N.C.	N.C.	N.C.	N.C.	OUT LAG.	OUT VS	INP. LAG.	N.C.	N.C.
A173g	N.C.	OFF ADJ.	GUARD	IN-	IN+	GU-ARD	V-	N.C.	N.C.	OUT	V+	OFF ADJ.	N.C.	N.C.
A173h	N.C.	N.C.	IN FREQ. COMP.	IN-	IN+	V-	N.C.	N.C.	OUT FREQ. COMP.	OUT	V-	IN FREQ. COMP.	N.C.	N.C.
A173i	N.C.	N.C.	OFFSET NULL/COMP.	IN-	IN+	V-	N.C.	N.C.	OFFSET NULL	OUT	V-	FREQ. COMP.	N.C.	N.C.

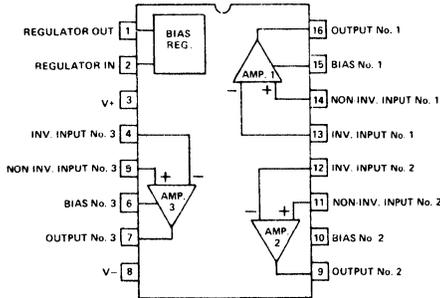
14. CIRCUIT DRAWINGS

A174

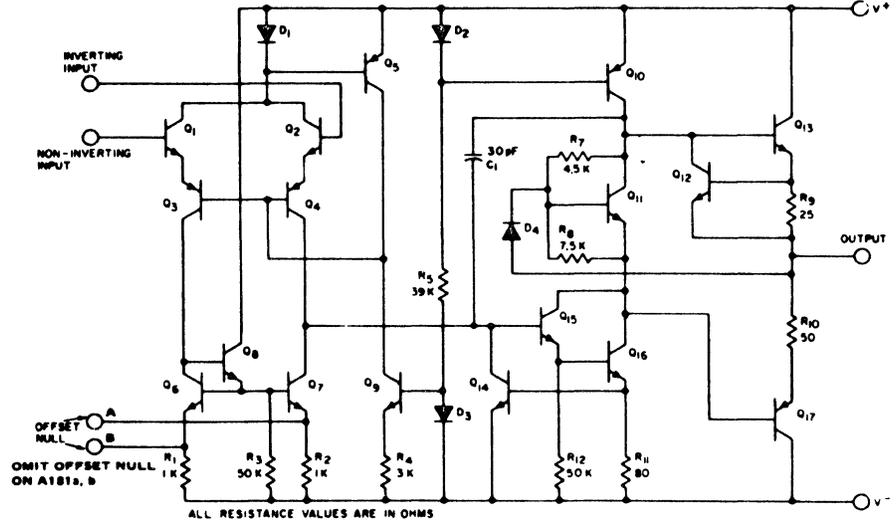
	PIN NUMBERS							
	1	2	3	4	5	6	7	8
A174	BALANCE	INV. INP	NON INV. INP	V-	BALANCE	OUTP. V	N.C.	
A174a	VOS TRIM	INV. INP	NON INV. INP	V-	COMP.	OUTP. V	VOS TRIM	
A174b	BALANCE/COMP.	INV. INP	NON INV. INP	V-	BALANCE	OUTP. V	COMP.	
A174c	N.C.	INV. INP	NON INV. INP	V-	N.C.	OUTP. V	N.C.	
A174d	COMP.	INV. INP	NON INV. INP	V-	BIAS SET	OUT V	COMP.	
A174e	INF. LAG	INV. INP	NON INV. INP	-VS	OUTP LAG	OUTP VS	INF LAG	
A174f	OFF. ADJ.	IN-	IN	CASE	V- OUT		OFF. ADJ.	
A174g	OFFSET ADJ.	IN-	IN-	V-	OFFSET ADJ	OUT V	BANDWIDTH CONTROL	
A174h	OFF. ADJ.	IN-	IN	CASE	OFF. ADJ.	OUT V	N.C.	
A174i	INF. COMP.	IN-	IN	V-	N.C.	OUTP V	OUTP COMP	
A174k	CF	INV. INP	NON INV. INP	VCC-	CSH	OUTP VCC	CT	
A174m	OFF. ADJ.	INV. INP	NON-INV IMP	V-	OFF. adj	outp. V	CASE(GUARD)	
A174n	OFF. ADJ.	INV. INP	NON-INV IMP	V-	OFF. ADJ	OUTP. V	QUISC. CURR SET	
A174p	NULL	IN-	IN	V-	NULL	OUTP V	CASE	
A174q	OFF. NULL	INV. INP	NON INV. INP	V-	N.C.	OUTP V	OFF NULL	
A174r	BALLANCE	INV. IN	NON-INV. INP	V-	COMP.	OUT V	BAL./COMP.	
A174s	OFF. ADJ.	INV. IN	NON-INV. INP	CASE	N.C.	OUT V	OFF. ADJ.	



A180



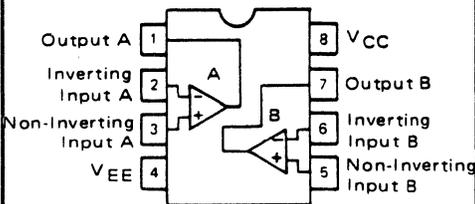
A181



ALL RESISTANCE VALUES ARE IN OHMS

CKT NO.	INVERT. INP.	NON INV. INP.	OFFSET NULL		OUTPUT	V+	V-
			A	B			
A181	1	2	3	4	6	7	4
A181a	1	2	3	1	6	7	4
A181b	2	6	5	7	8	8	4
A181c	1	3	4	1	8	8	5
	2	7	6	8	8	8	5
A181c	1	1	2	3	5	12	13
	2	7	6	14	8	10	9

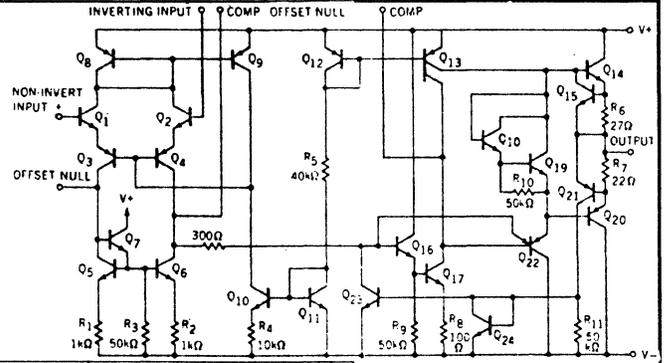
A182



A183

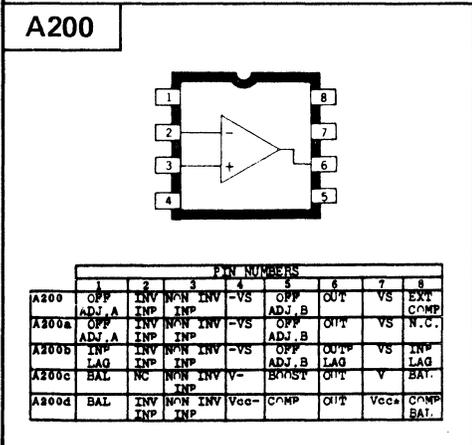
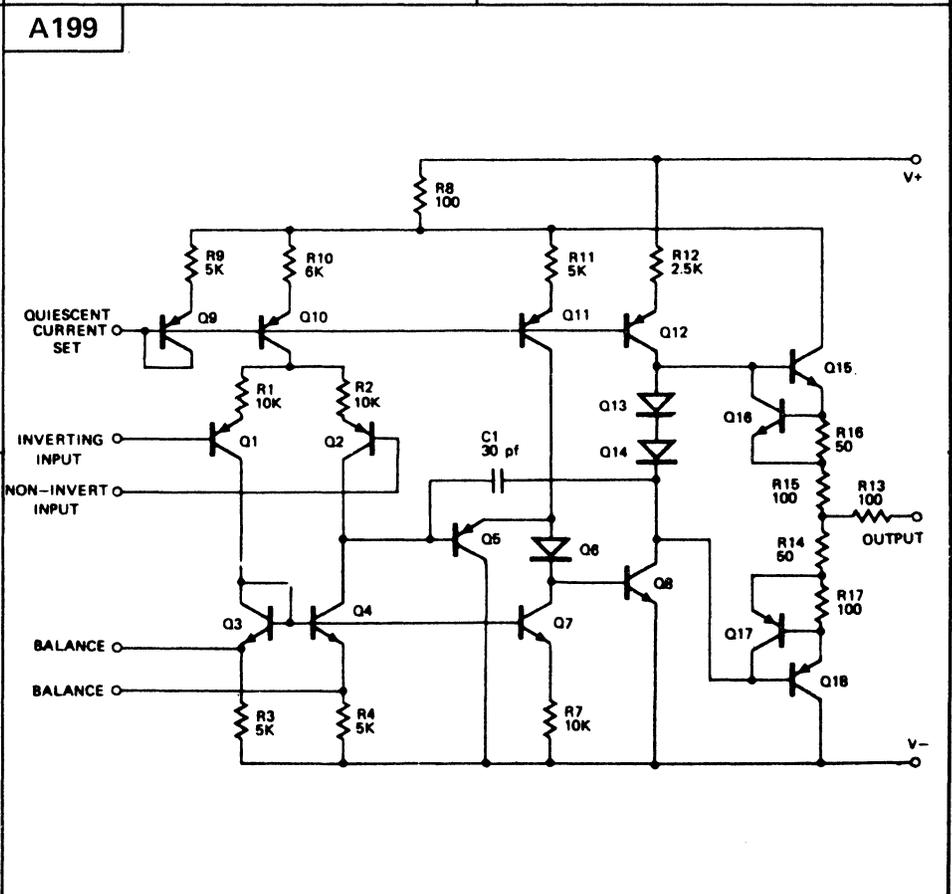
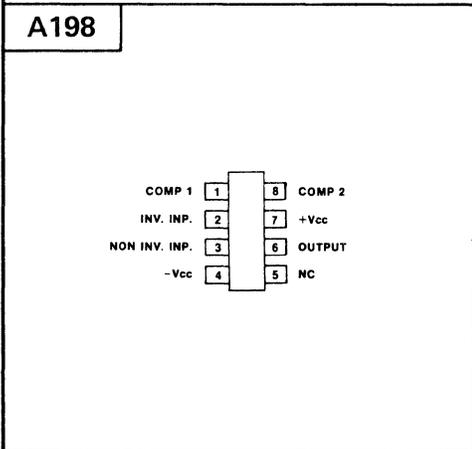
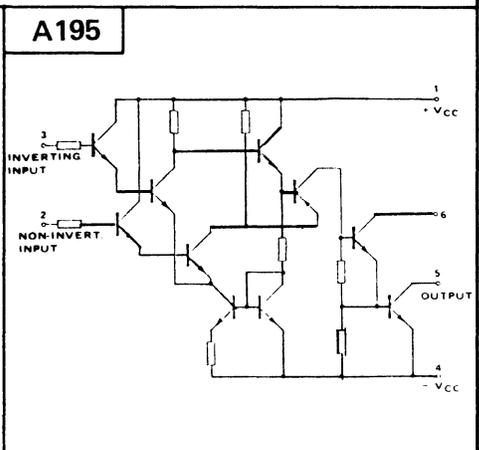
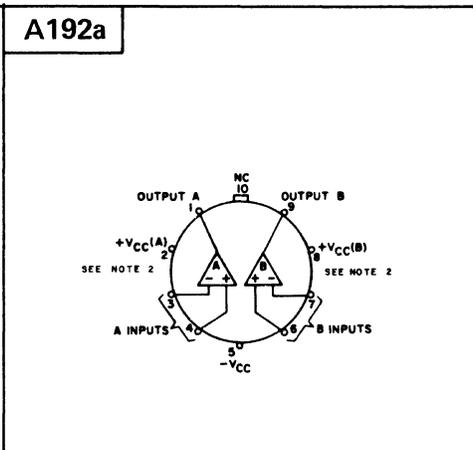
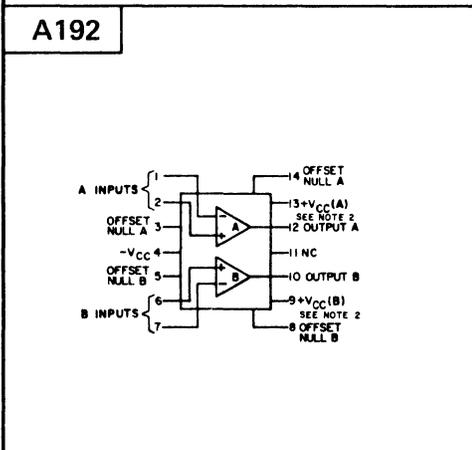
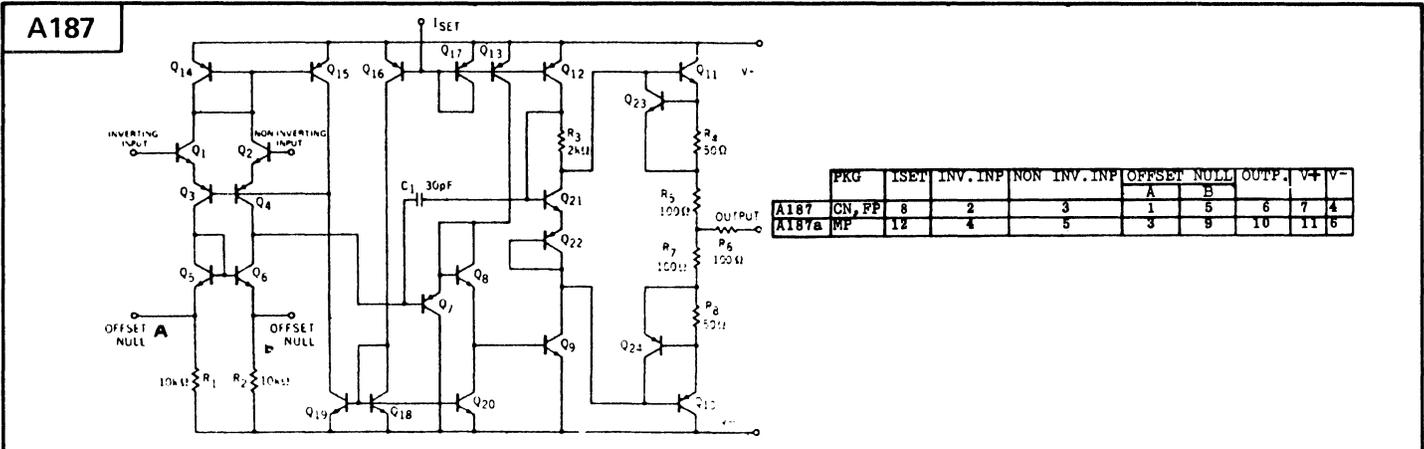
NON INV. INP. A	1	16	-V (CKT.A)
INV. INP. A	2	15	COMP. A
BIAS	3	14	OUTP. A
INV. INP. B	4	13	OUTP. B
NON-INV. INP. B	5	12	COMP. B
V+	6	11	OUTP. C
INV. INP. C	7	10	COMP. C
NON INV. INP. C	8	9	-V (CKT.C)

A186

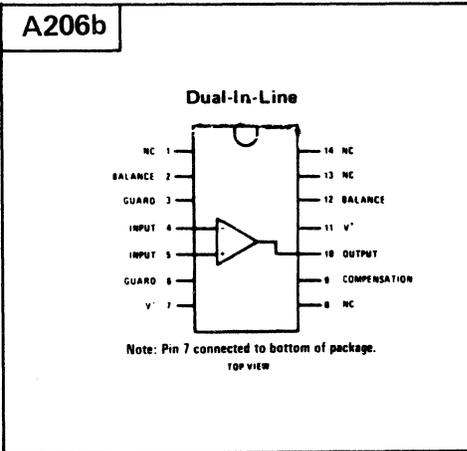
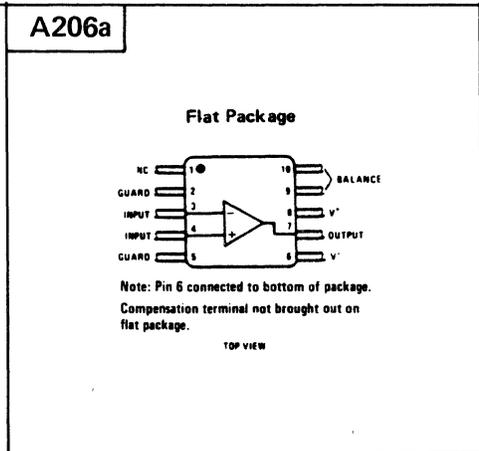
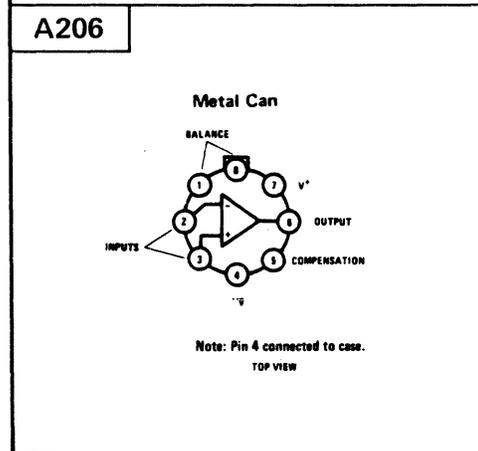
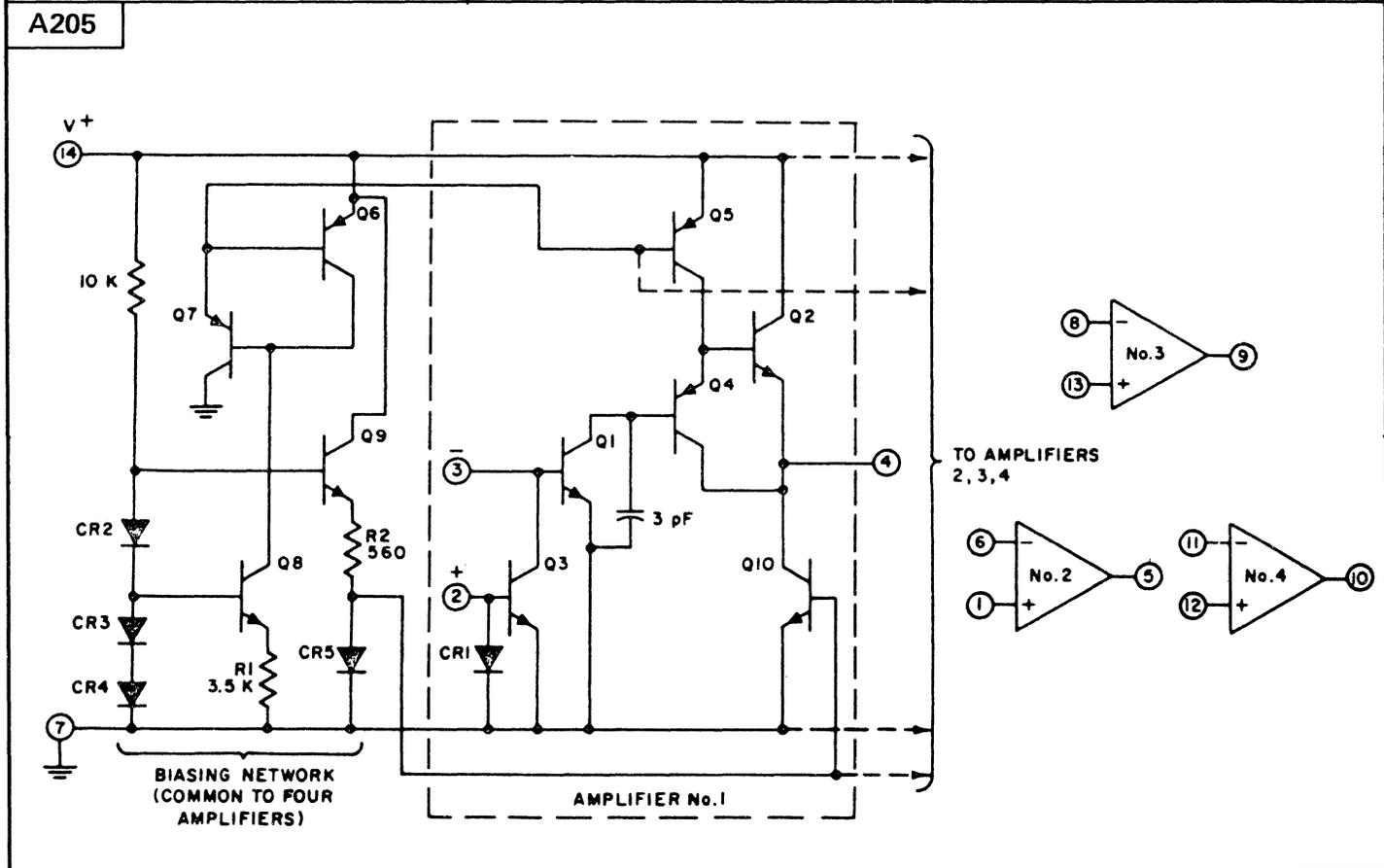
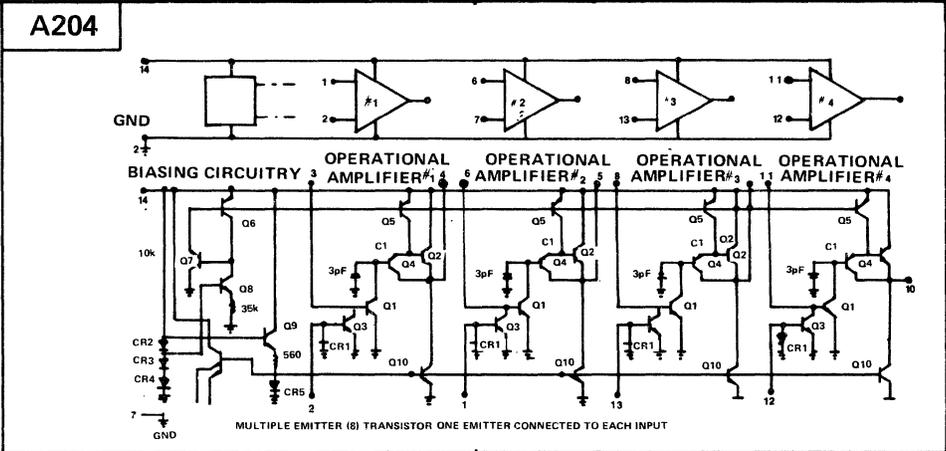
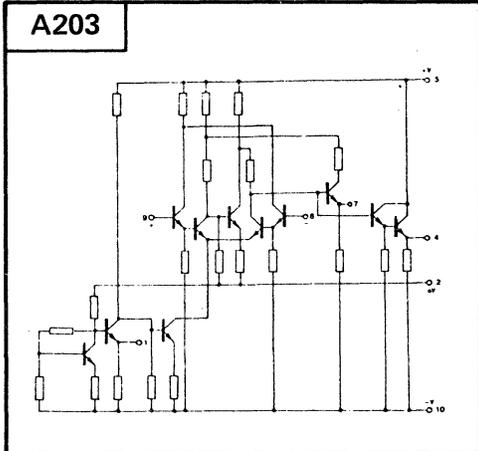


PKG	INV. INP.	NON INV. INP.	OFFSET NULL	COMP. OFFSET NULL	COM. OFFSET NULL	COM. OFFSET NULL	V+	V-
A186	FP	3	4	6	2	9	7	8
A186a	FP	2	3	5	1	8	6	7
A186b	CN	4	5	9	3	12	10	11
A186c	WF	2	3	5	1	8	6	7

14. CIRCUIT DRAWINGS



14. CIRCUIT DRAWINGS



14. CIRCUIT DRAWINGS

A207

OUTPUT MODE	OUTPUT TERM	INVS	NON-INV
"SOURCE"	6	2	3
"SINK"	8	3	2

EXTERNAL FREQUENCY COMPENSATION OR INHIBIT INPUT

DIFFERENTIAL VOLTAGE INPUTS

AMPLIFIER BIAS INPUT (I_{ABC})

"SOURCE" OUTPUT

"SINK" OUTPUT

A210

CKT	IN	IN	OUT
1	2	1	3
2	5	6	4
3	9	8	10
4	13	14	12

+V_{CC}

-V_{CC}

V_{OUT}

A211

PKG	IN	IN	OUT	V+	V-	COMP
A211	1	2	3	4	5	6
8-LEAD	1	2	3	4	5	6
14-LEAD	3	8	4	5	10	6

IN-

IN+

OUT

COMP

OFFSET NULL

A212

CKT	INV	NON-INV	OUT
1	2	3	1
2	6	5	7

INVERTING INPUT

NON-INVERTING INPUT

V₊

V₋

OUT

A216

PKG	INV INP	NON-INV INP	OFFSET NULL	NULL	I _{SC}	COMP	OUTP	V+	V-	GND
A216	5	6	1	2	4	3	7	8	9	10
TO8	5	6	1	2	4	3	7	8	9	10
TO9	5	6	7	8	1	2	11	12	10	3
MP	7	8	1	2	4	3	5	6	4	1

INVERTING INPUT

NON-INV. INPUT

COMP. (EXT.)

OUTPUT

OFFSET NULL*

10k EXTERNAL NULL POT

*R_{SC} EXTERNAL ON TO-8 AND TO-3 PACKAGES.
R_{SC} INTERNAL ON "J" PACKAGE.
OFFSET NULL CONNECTIONS AVAILABLE ONLY ON TO-8 "G" PACKAGE.

A217

COMP/NULL

COMP

IN(-)

IN(+)

OUTPUT

V₊

V₋

TOP VIEW

A218

BALANCE COMPENSATION

INVERT. INPUT

NON-INVERT. INPUT

OUTPUT COMPENSATION

OUTPUT

A219

OFFSET NULL

COMP. 2

INV. INPUT

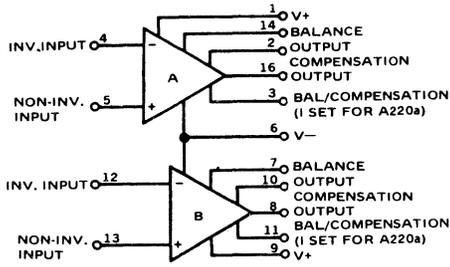
NON-INV. INPUT

OUTPUT

PKG	INV INP	NON-INV INP	OFFSET NULL	NULL	COMP	OUTP	V+	V-
A219	2	3	1	5	8	6	7	4
CH	2	3	1	5	8	6	7	4
FP	3	12	6	10	8	9	5	

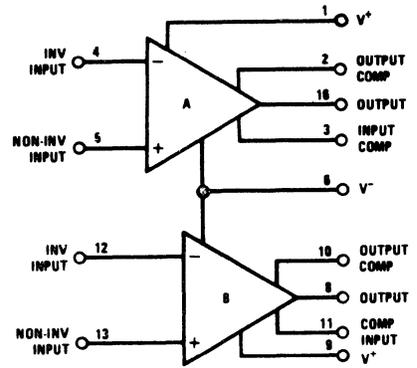
14. CIRCUIT DRAWINGS

A220

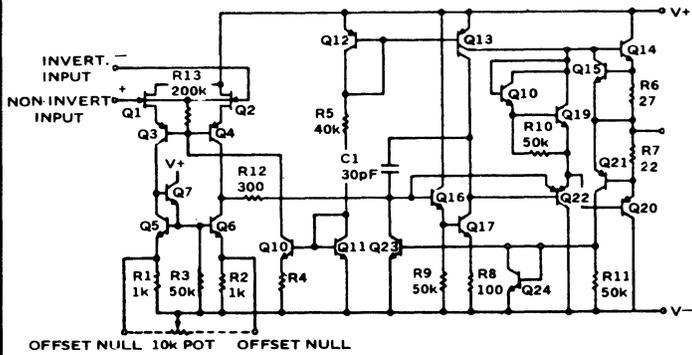


	CKT	INV INP	NON INV INP	BALANCE	OUTP	OUTP	BAL/COMP	V+	V-
A220	1	4	5	14	2	16	3	1	6
A220a	2	13	15	7	10	8	11	9	6
A220b	1	4	5	14	3	16	2	9	6
A220b	2	13	15	7	11	8	10	9	6

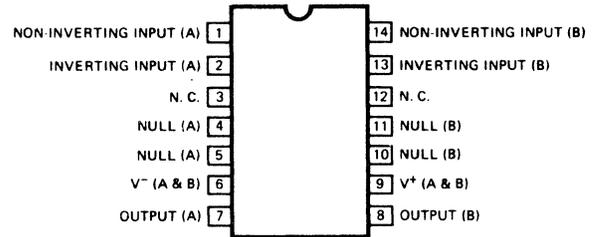
A221



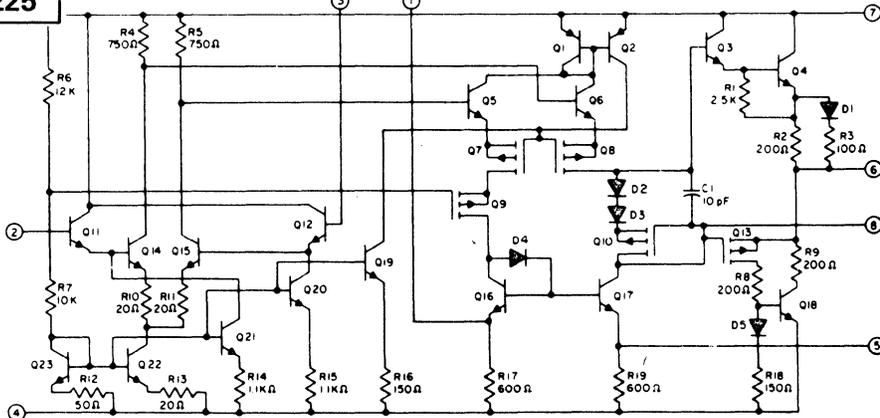
A223



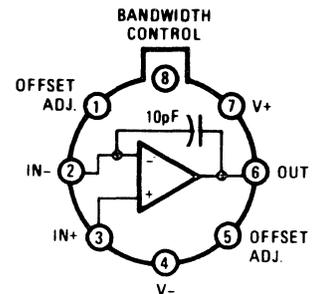
A224



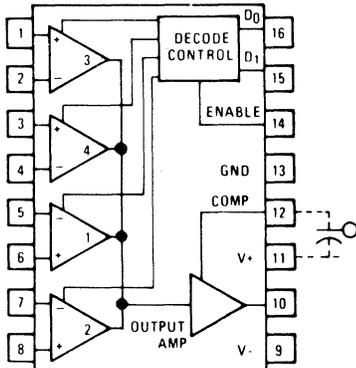
A225



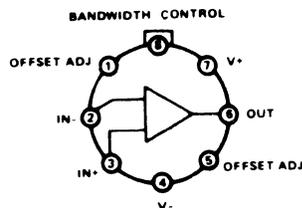
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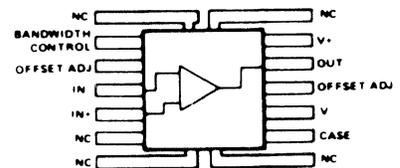
A230



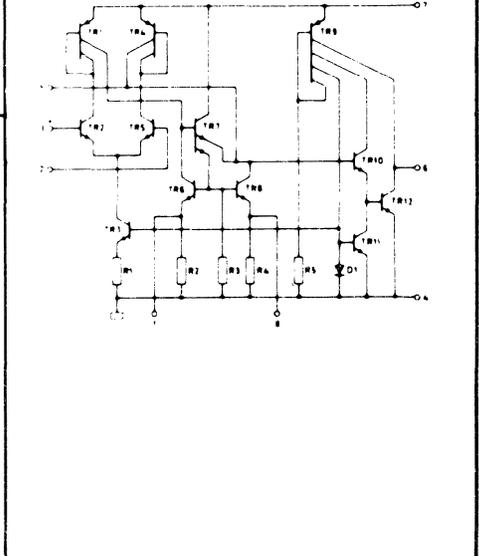
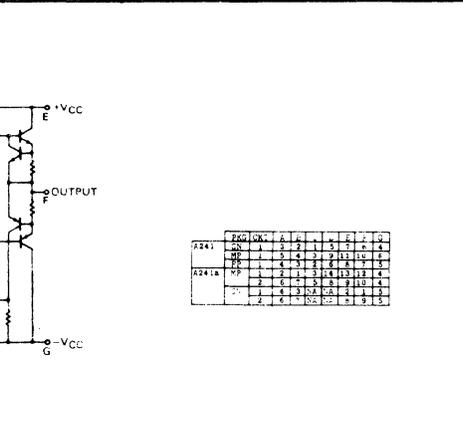
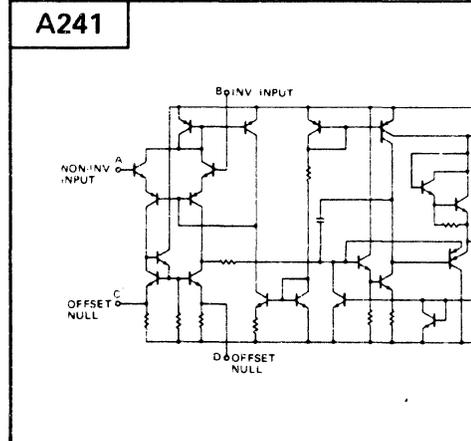
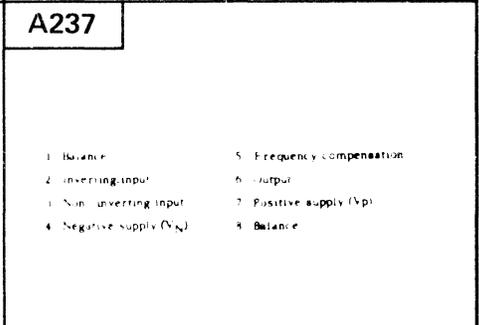
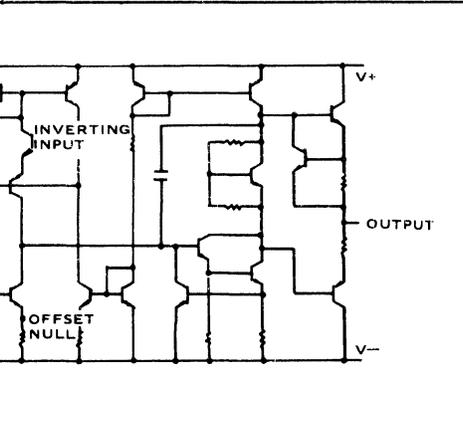
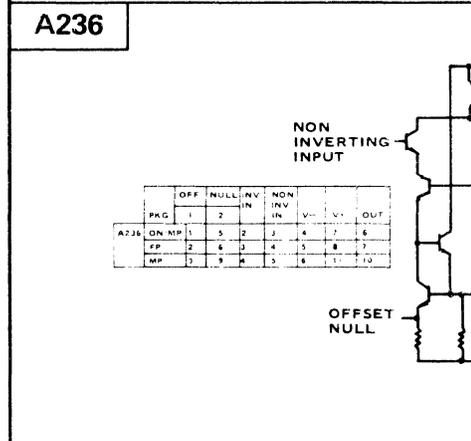
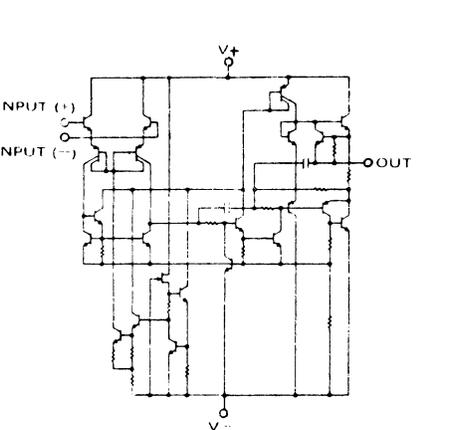
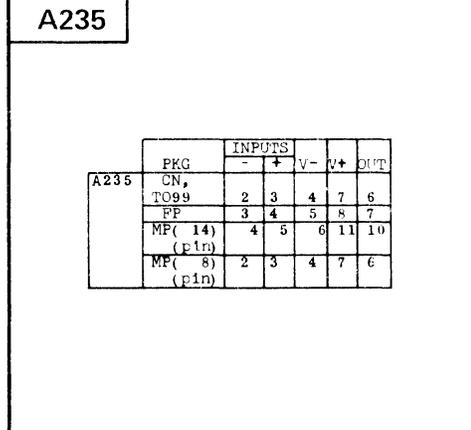
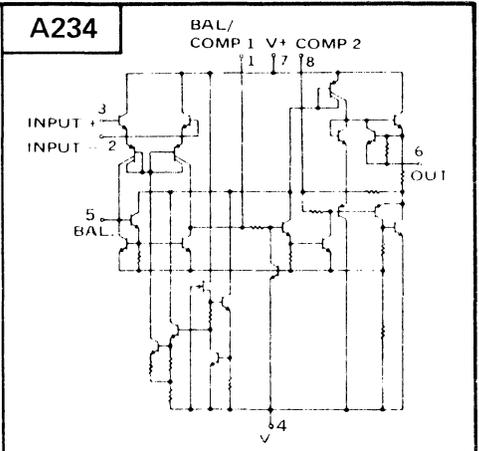
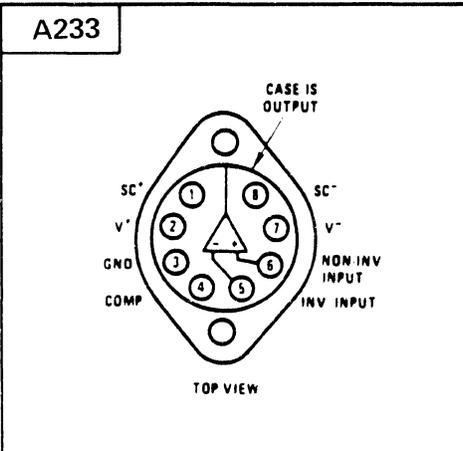
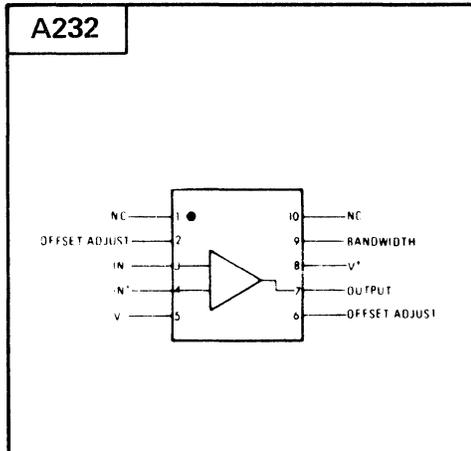
A231



A231a



14. CIRCUIT DRAWINGS



14. CIRCUIT DRAWINGS

A242

A243

A245

Metal Can

A245a

Flat Package

A245b

Dual-In-Line

A246

A249

CKT	ISET	IN			V		
		A	B	OUT	-	+	+
A249	1	3	1	8	4	7	14
A249a	1	1	8	6	3	4	2
	2	13	8	9	10	11	12

R3 3K R4 3K
A 5V OFF B V OFF

A252

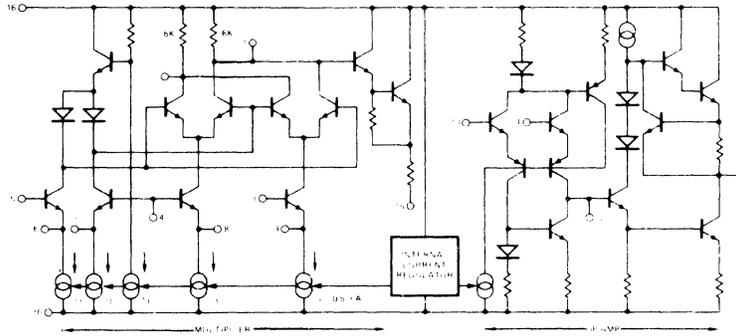
CKT	A	B	C	
A252	1	2	3	1
	2	6	6	7

A255

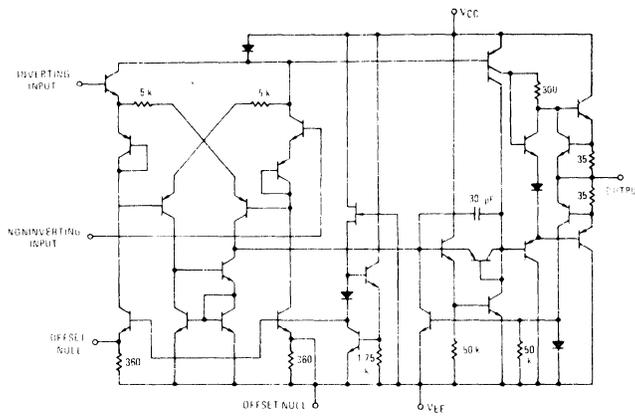
A256

14. CIRCUIT DRAWINGS

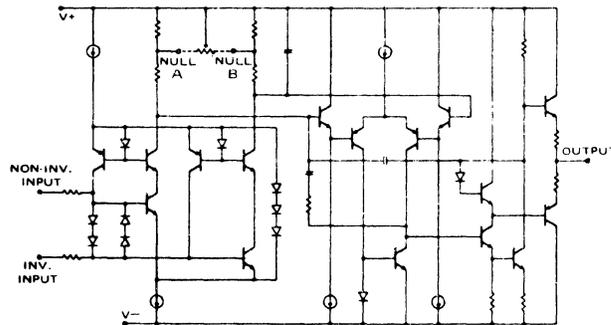
A257



A259

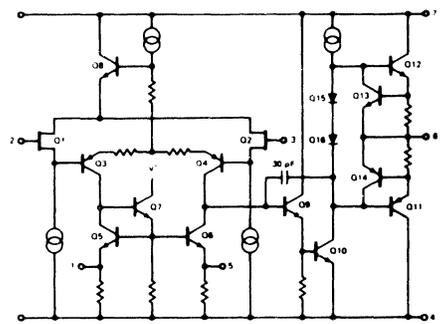


A261

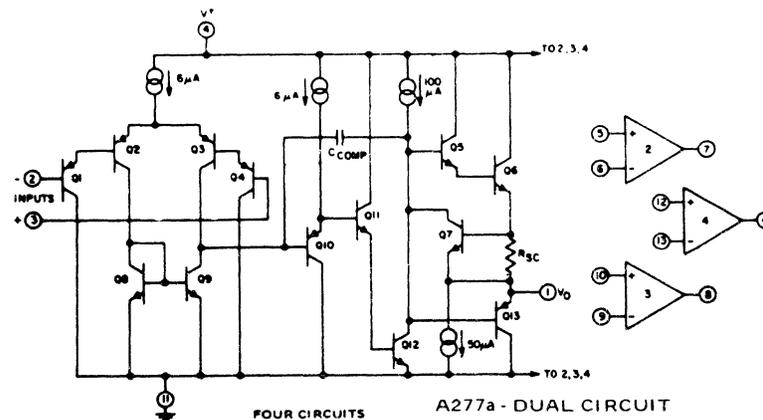


CKT	PKG	INP		NULL		OUTP	V+	V-	
		+	-	A	B				
A261	1	MP	4	3	1	2	13	14	12
			11	10	8	9	6	7	5
A261A	1	CN	3	2	8	1	6	7	4
			5	4	3	12	10	11	6
A261B	1	FP	4	3	2	9	7	8	5
			3	2	1	8	6	7	4

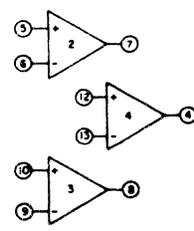
A270



A277

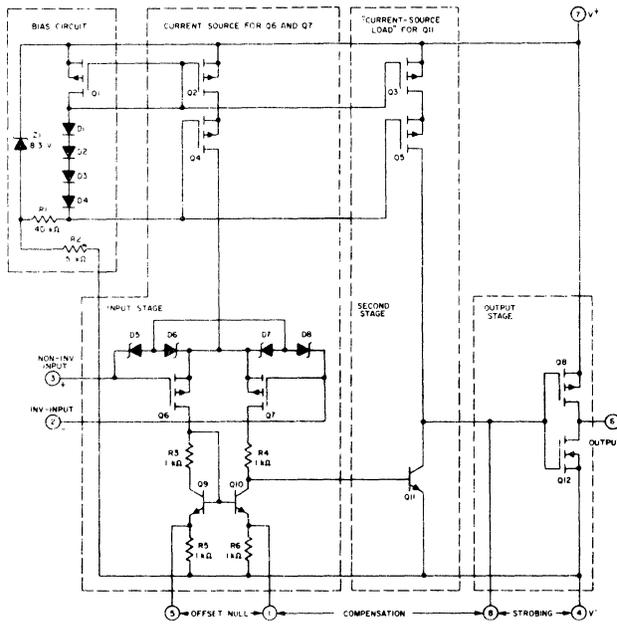


FOUR CIRCUITS A277a - DUAL CIRCUIT

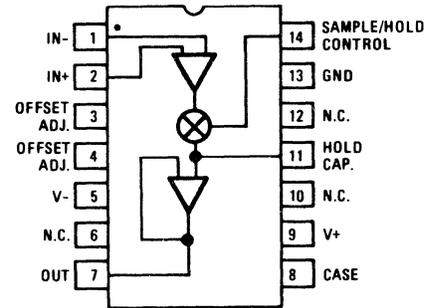


14. CIRCUIT DRAWINGS

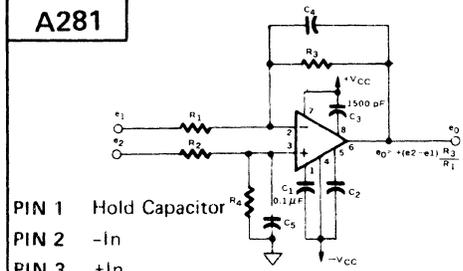
A278



A279

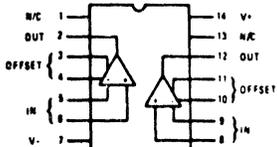
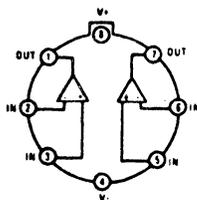


A281



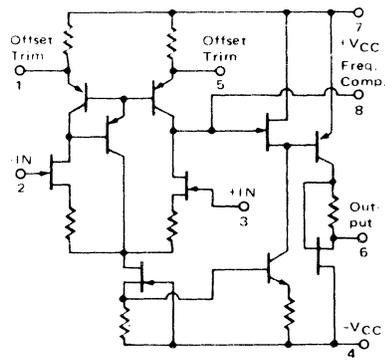
- PIN 1 Hold Capacitor
- PIN 2 -In
- PIN 3 +In
- PIN 4 -Vcc
- PIN 5 Hold Capacitor
- PIN 6 Out
- PIN 7 +Vcc
- PIN 8 Timing Capacitor

A283

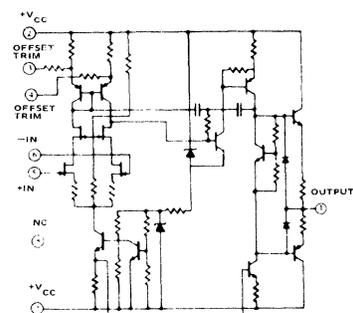


NOTE: BOTTOM OF PACKAGE IS CONNECTED TO V-.
NOTE: CASE CONNECTED TO V-.

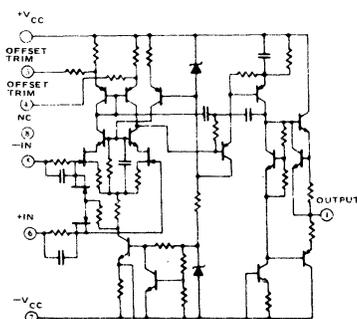
A286



A287

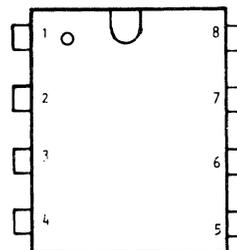


A288



A291

TOP VIEW



	1	2	3	4	5	6	7	8
A291	NC	INV INPUT	NON-INV INP	-Vcc	BALANCE	OUT	+Vcc	NC
A291a	BALANCE	INV INPUT	NON-INV INP	-Vcc	BALANCE	OUT	+Vcc	NC
A291b	BAL/COMP	INV INPUT	NON-INV INP	-Vcc	BALANCE	OUT	+Vcc	COMP
A291c	INPUT COMP	INV INPUT	NON-INV INP	-Vcc	NC	OUT	+Vcc	OUT COMP
A291d	BAL/COMPA	INV INPUT	NON-INV INP	-Vcc	BAL/COMPB	OUT	+Vcc	COMP C

14. CIRCUIT DRAWINGS

A292

A292a

A293

A308

A308a

A309

LAND No.	FUNCTION
1	INV. INPUT A
2	NON-INV. INPUT A
3	OFFSET NULL A
4	V-
5	OFFSET NULL B
6	NON-INV. INPUT B
7	INV. INPUT B
8	OFFSET NULL B
9	V + B
10	OUTPUT B
11	NO CONNECTION
12	OUTPUT A
13	V + A
14	OFFSET NULL A

A313

A314

A315

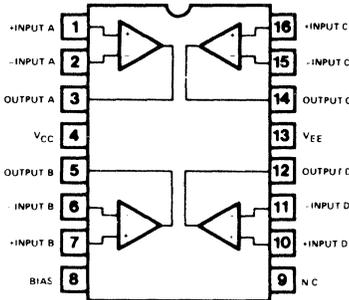
LOC	PK	VAL	UNIT	REF
A315	1	10K	Ω	1
A315	2	10K	Ω	2
A315	3	10K	Ω	3
A315	4	10K	Ω	4
A315	5	10K	Ω	5
A315	6	10K	Ω	6
A315	7	10K	Ω	7
A315	8	10K	Ω	8
A315	9	10K	Ω	9
A315	10	10K	Ω	10
A315	11	10K	Ω	11
A315	12	10K	Ω	12
A315	13	10K	Ω	13
A315	14	10K	Ω	14

A316

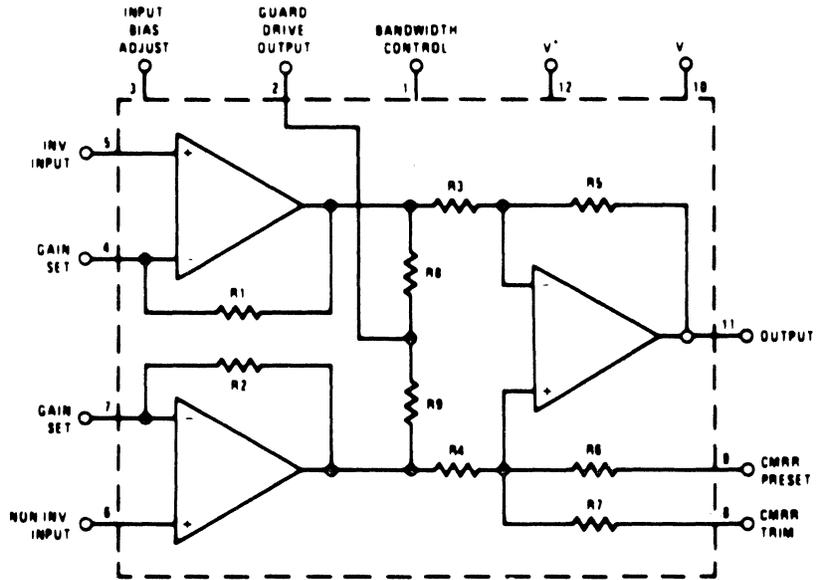
A321

14. CIRCUIT DRAWINGS

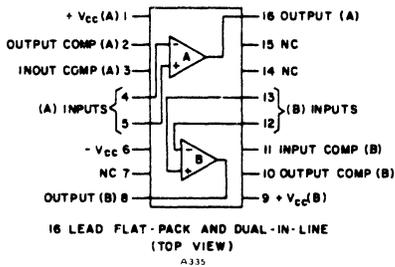
A323



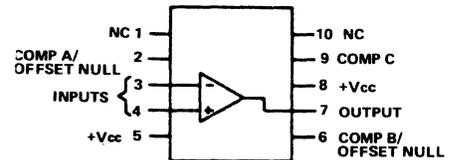
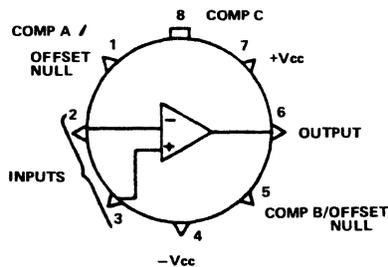
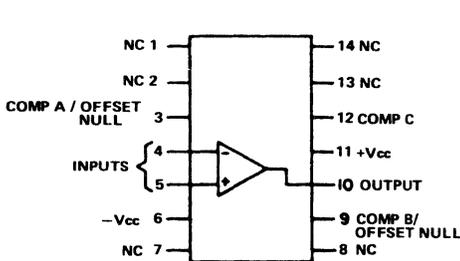
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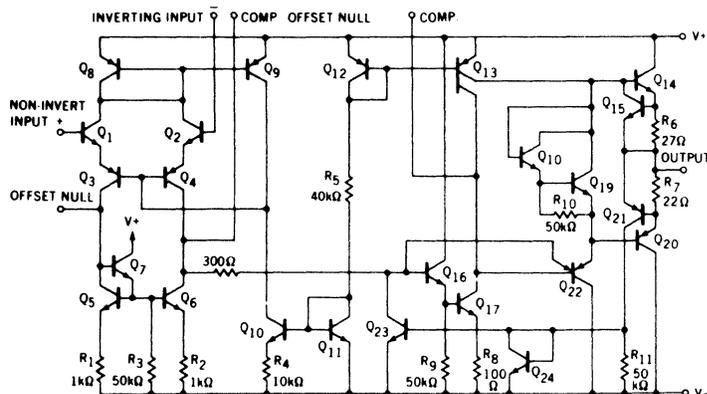
A335



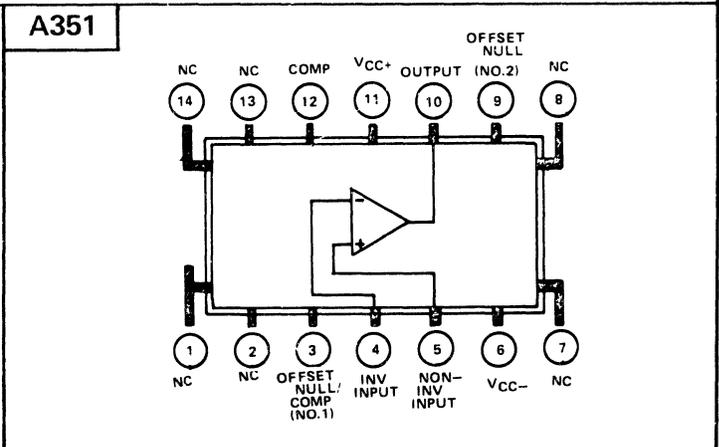
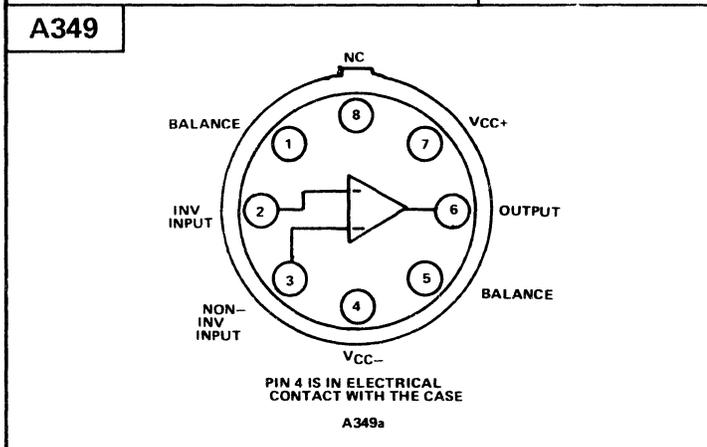
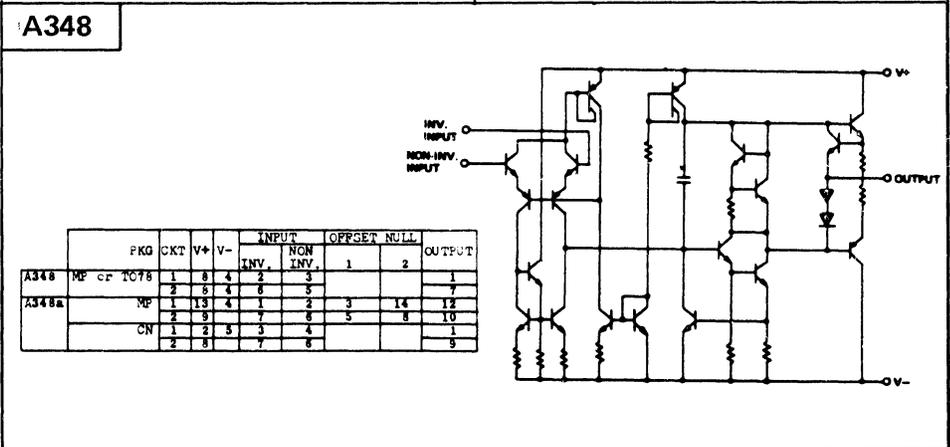
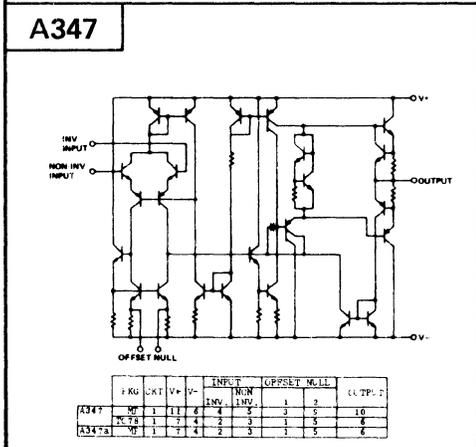
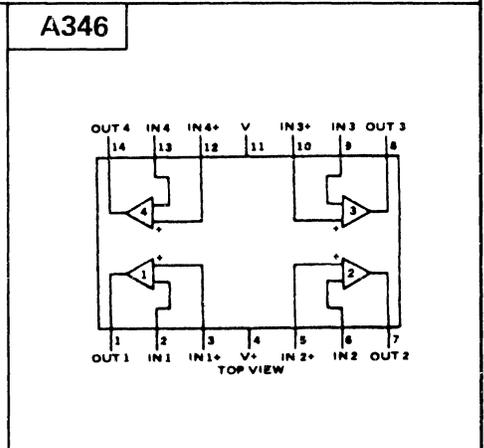
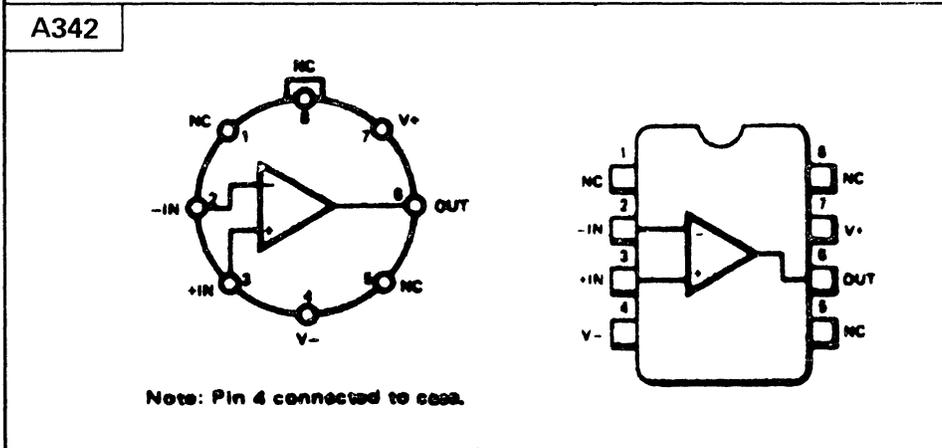
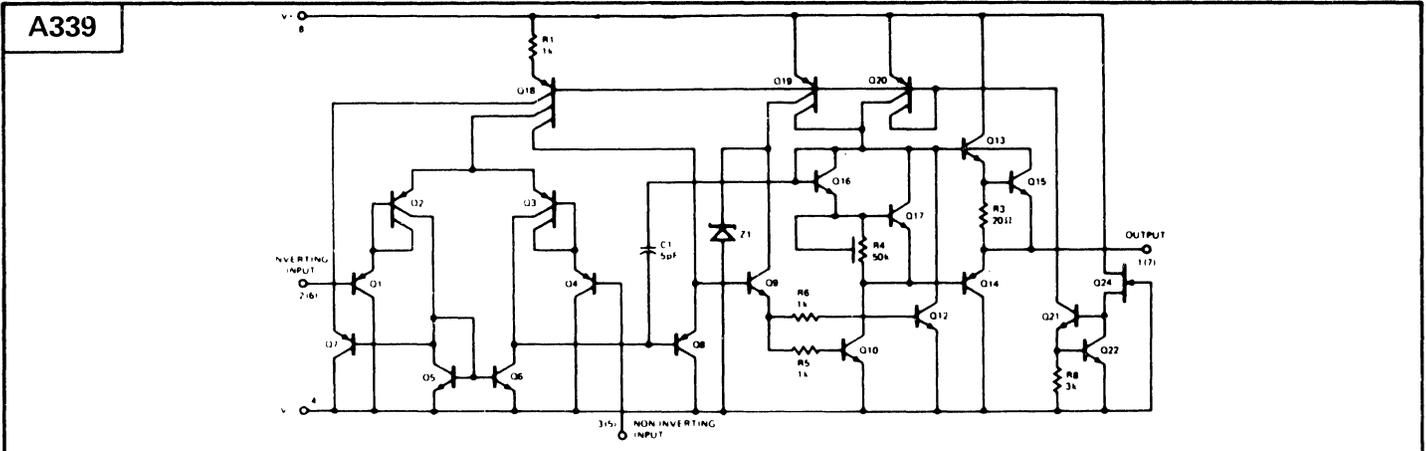
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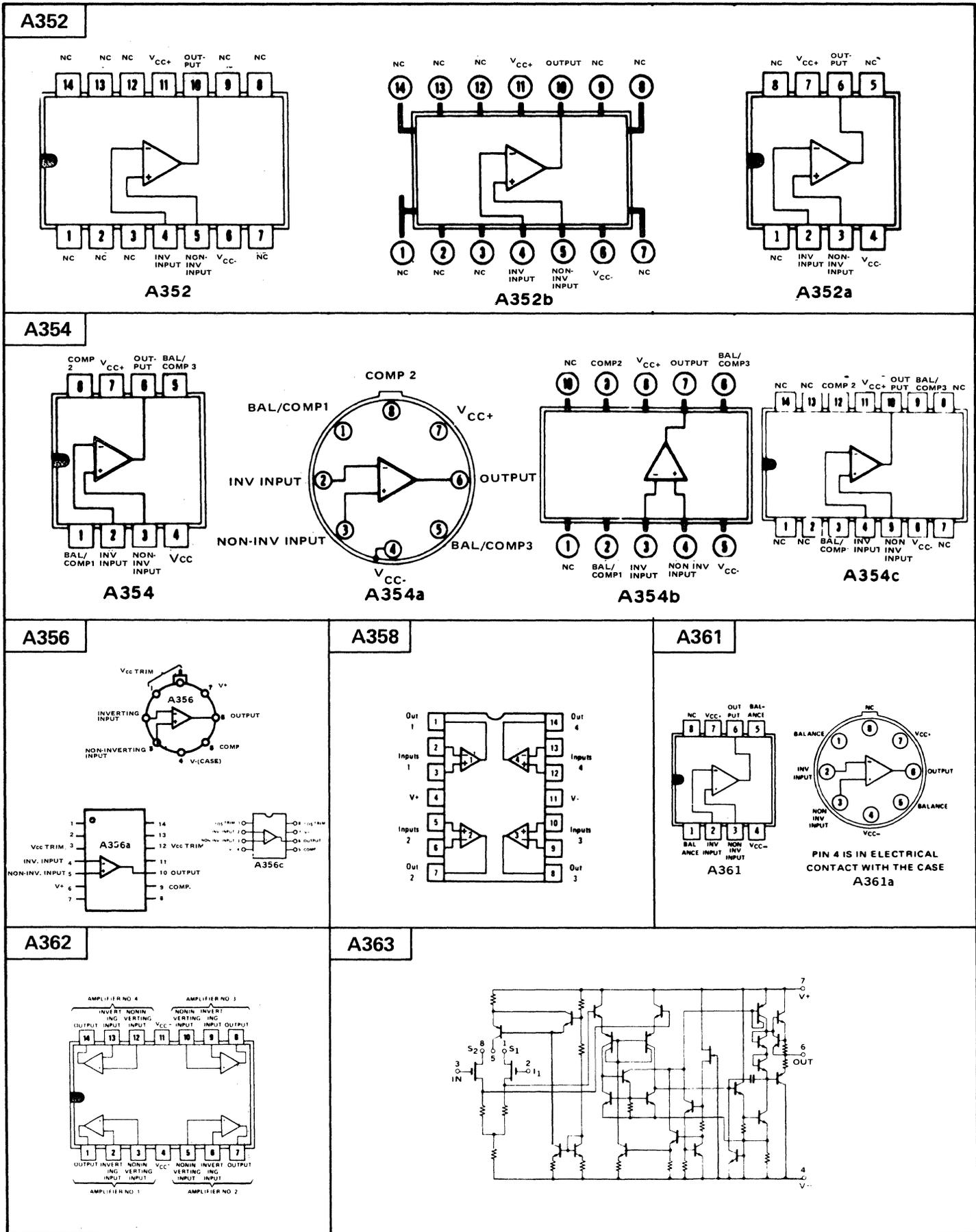
A337



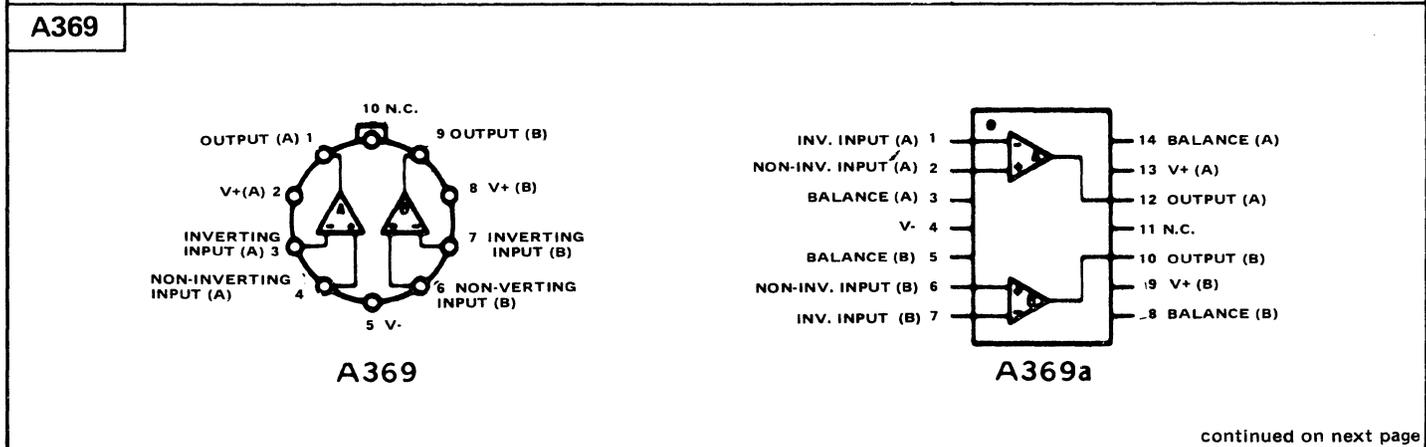
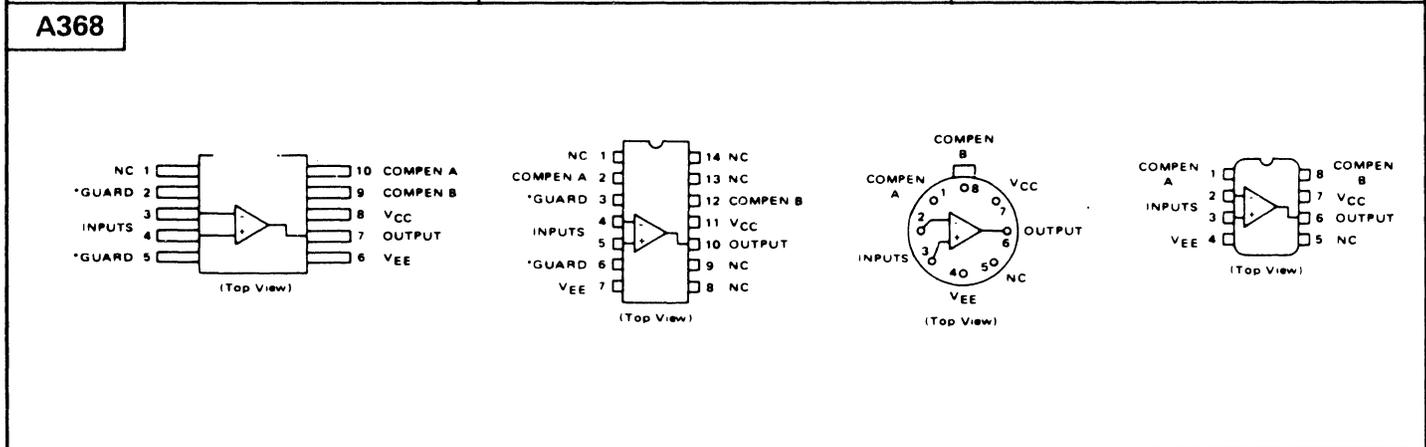
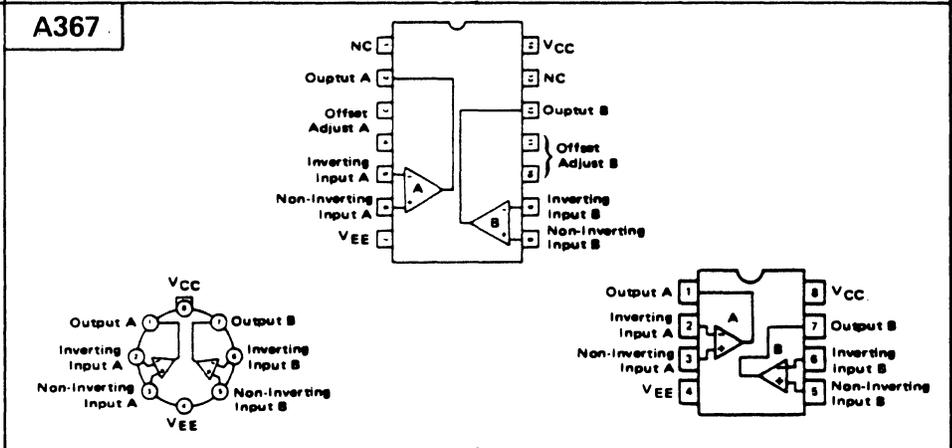
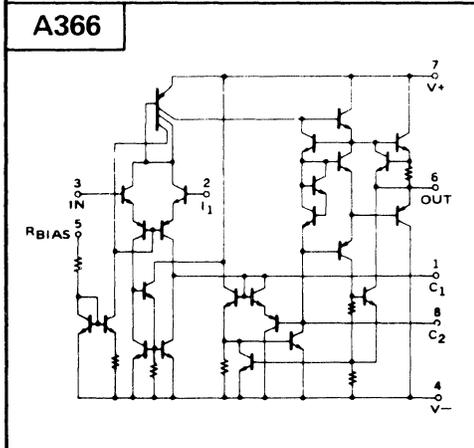
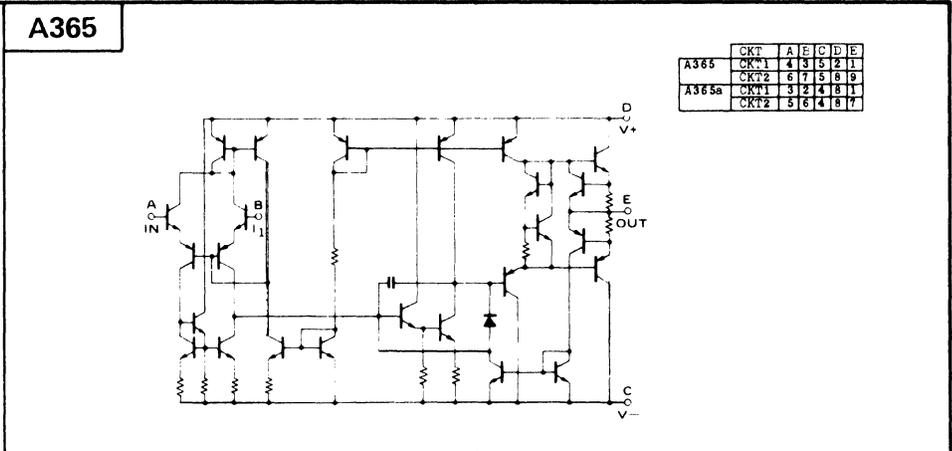
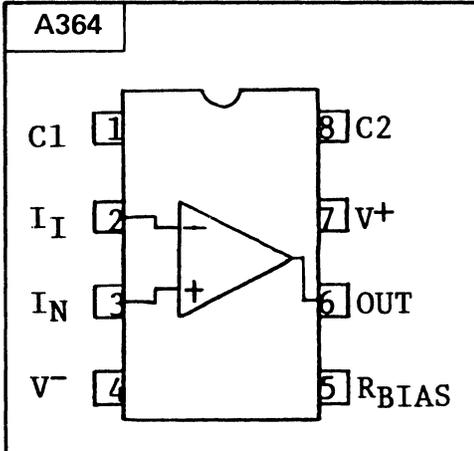
14. CIRCUIT DRAWINGS



14. CIRCUIT DRAWINGS



14. CIRCUIT DRAWINGS

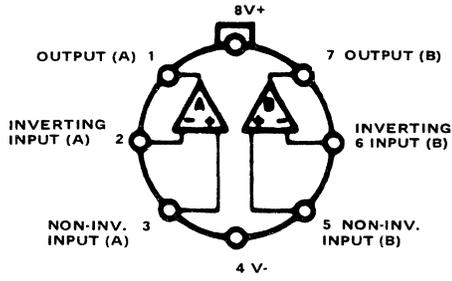


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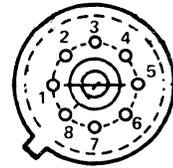
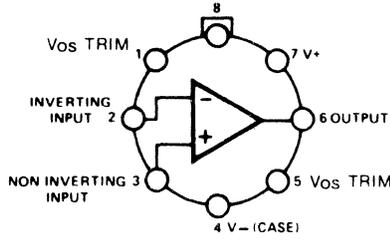
14. CIRCUIT DRAWINGS

A369 continued

A371

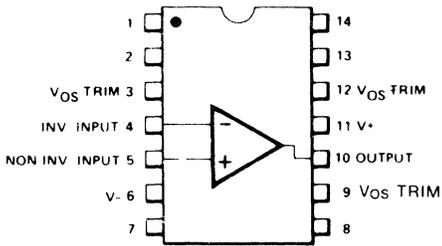


A369b

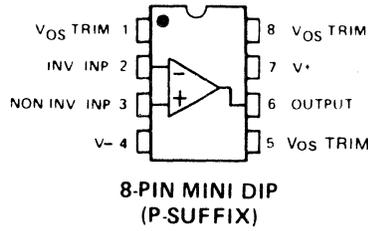


VIEW TOWARD PINS

- 1. Offset Adj.
- 2. -In
- 3. +In
- 4. -V_{CC}
- 5. Offset Adj.
- 6. Output
- 7. +V_{CC}
- 8. Bandwidth Control

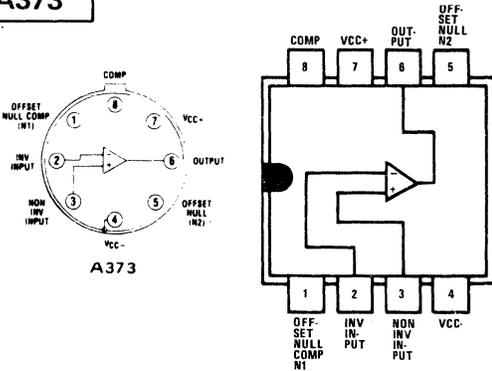


14-PIN CERAMIC DIP (Y-SUFFIX)

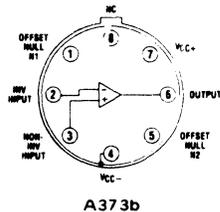


8-PIN MINI DIP (P-SUFFIX)

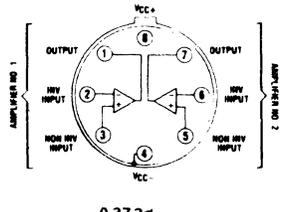
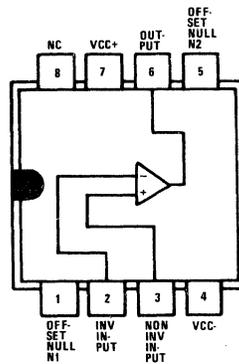
A373



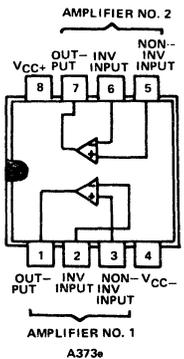
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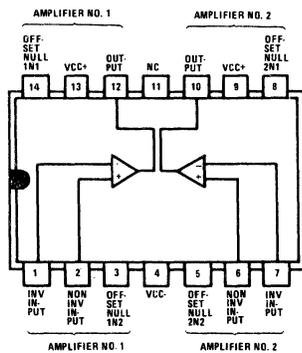
A373b



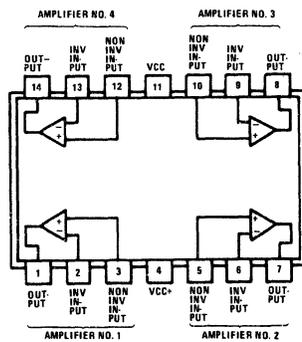
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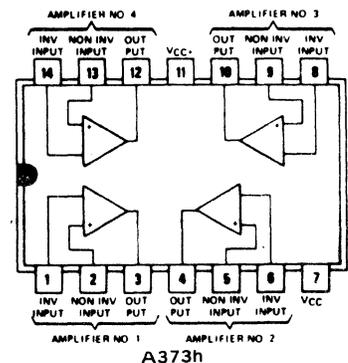
A373e



NOTE: PIN 9 & 13 ARE INTERNALLY CONNECTED

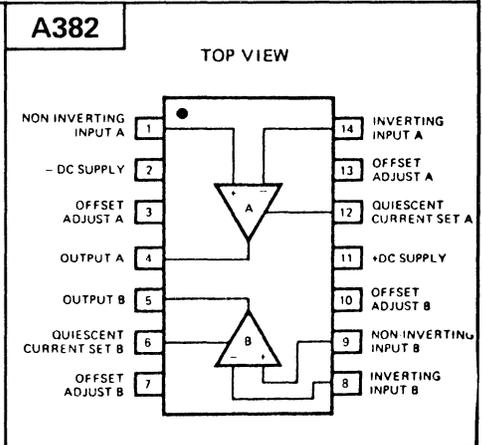
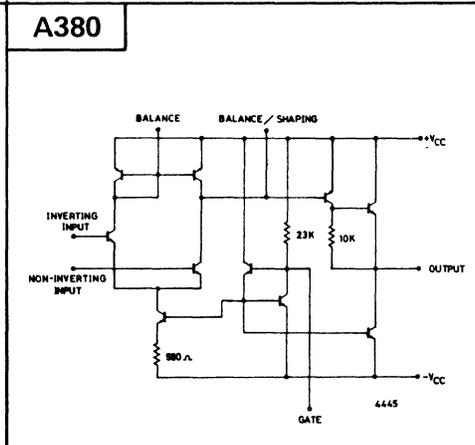
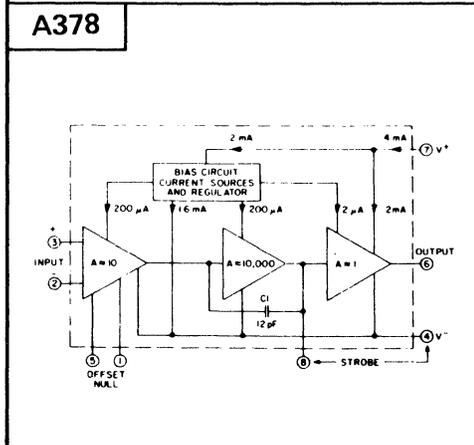
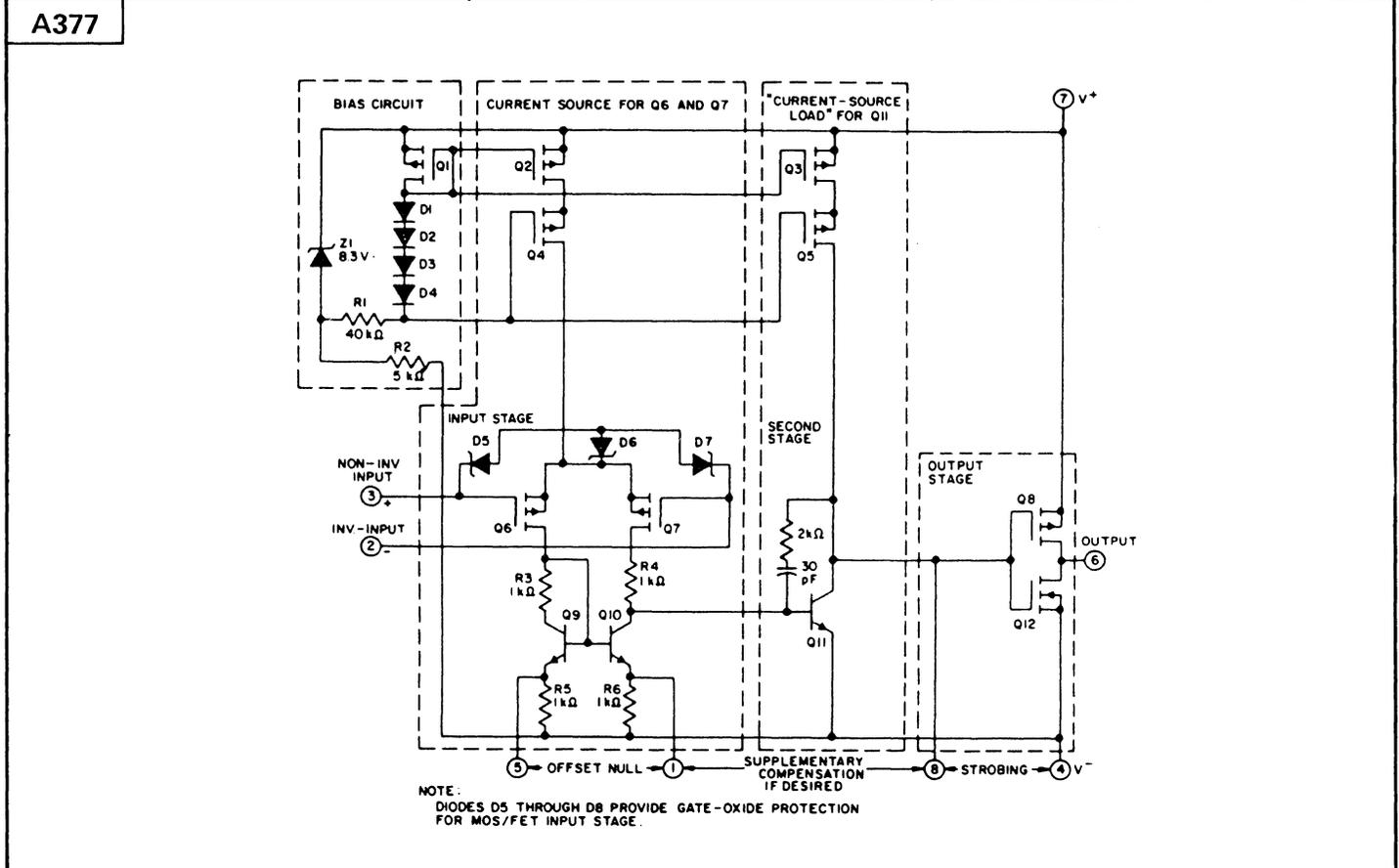
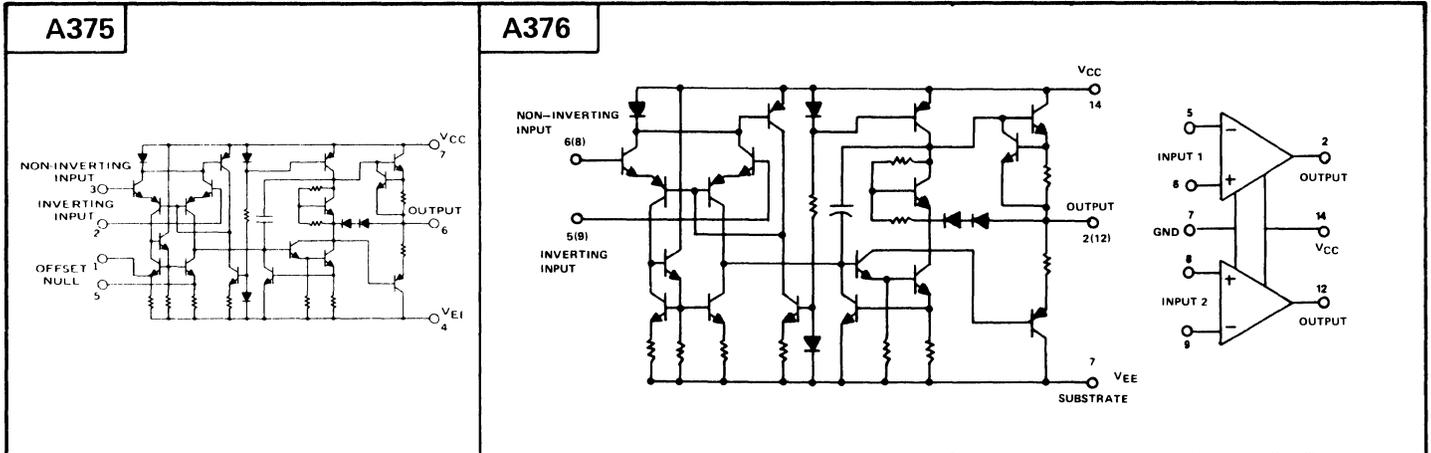


A373g

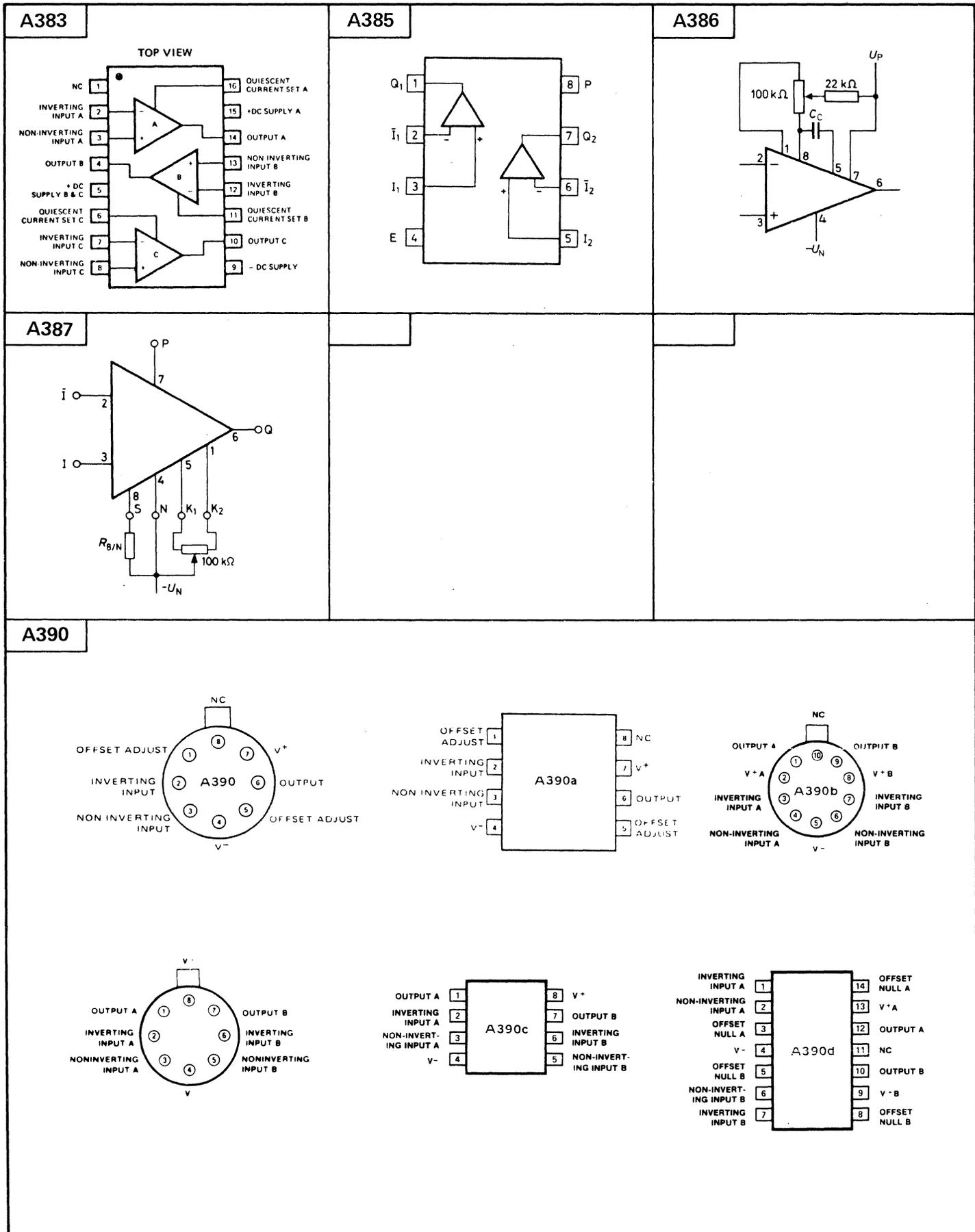


A373h

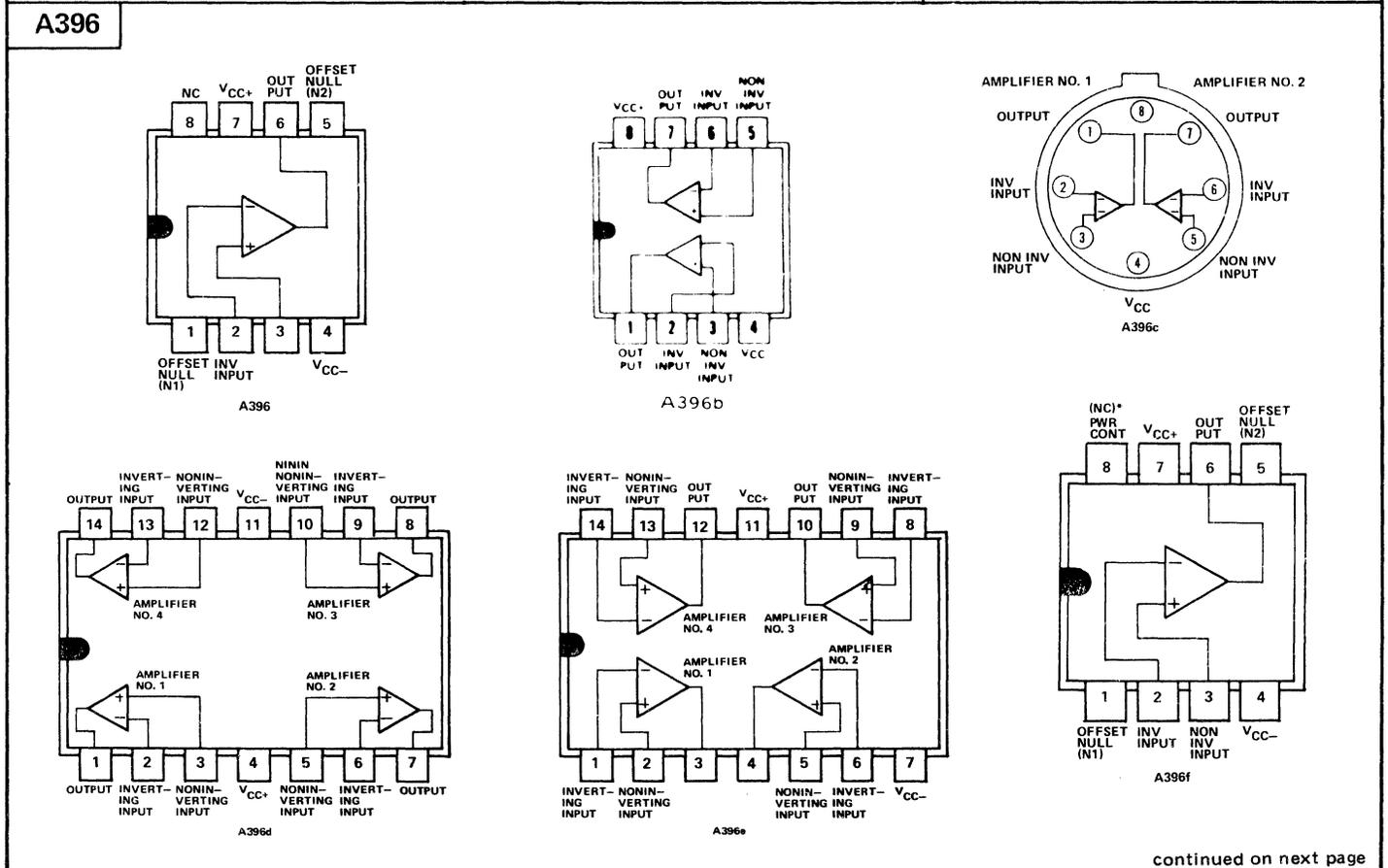
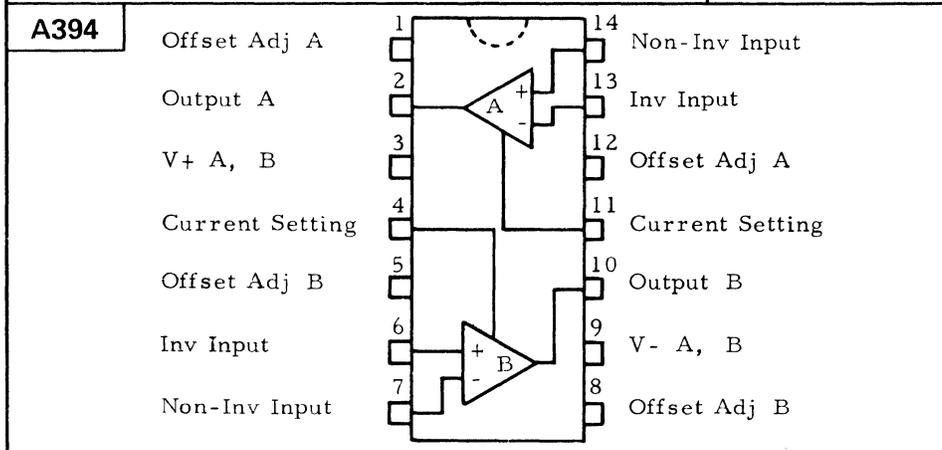
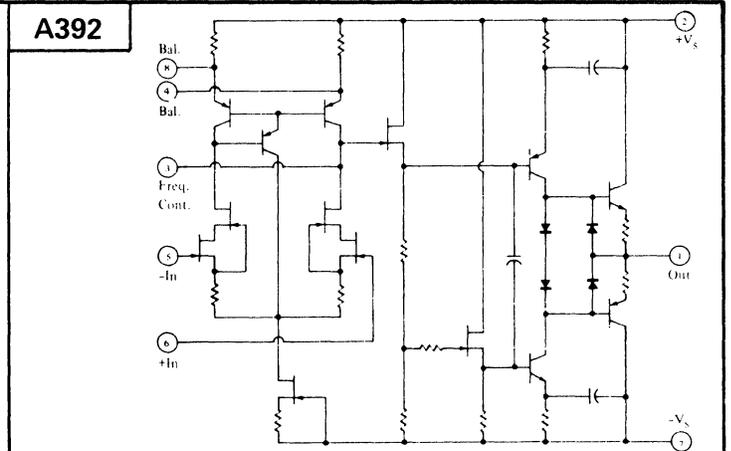
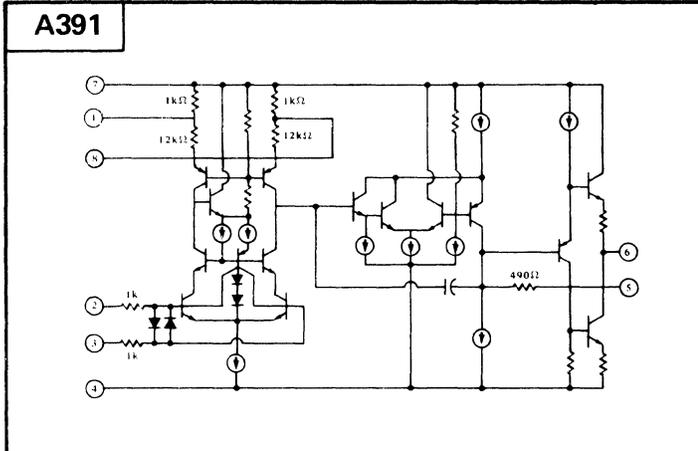
14. CIRCUIT DRAWINGS



14. CIRCUIT DRAWINGS



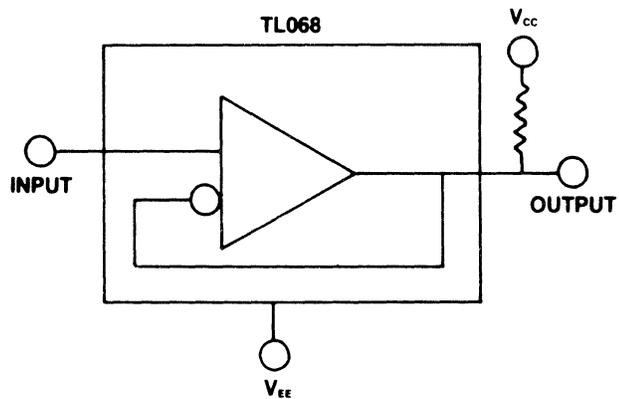
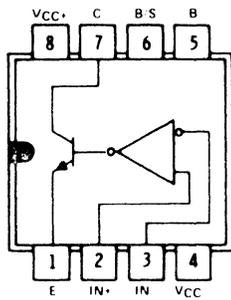
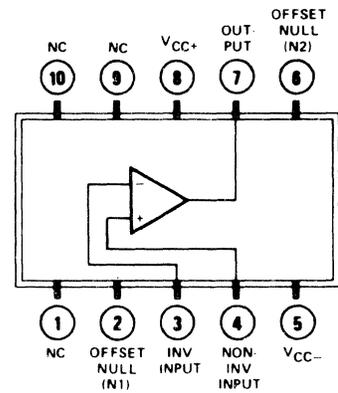
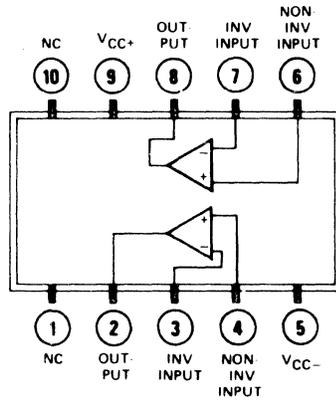
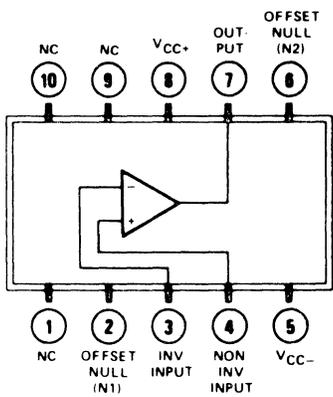
14. CIRCUIT DRAWINGS



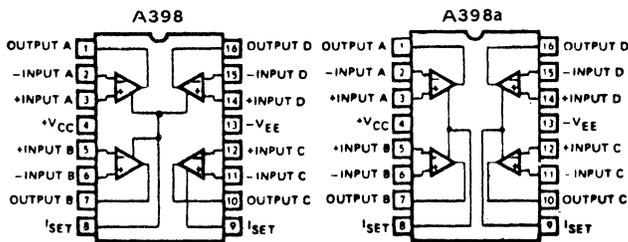
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14. CIRCUIT DRAWINGS

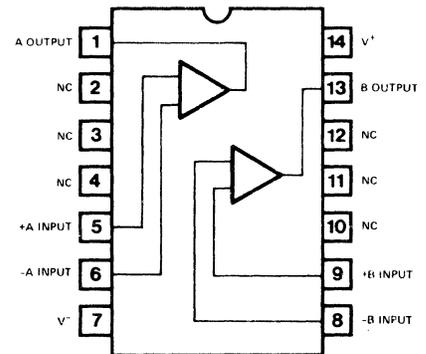
A396 continued



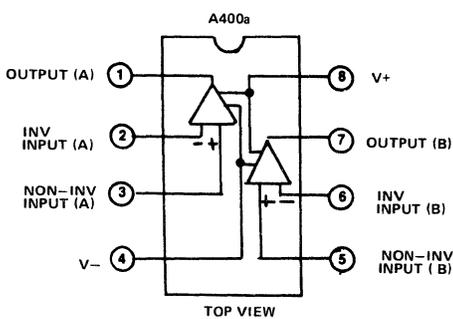
A398



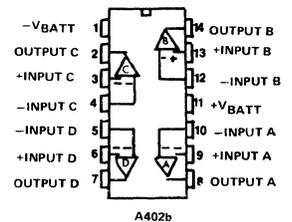
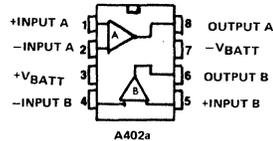
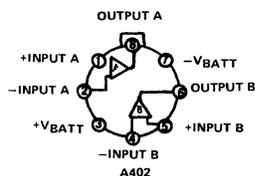
A399



A400

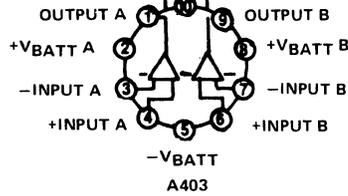
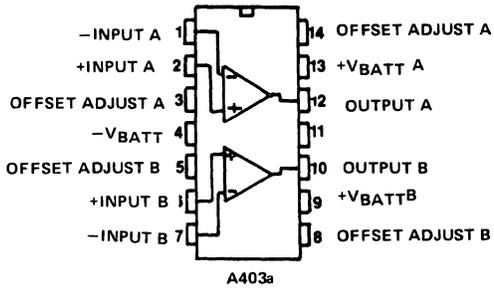


A402



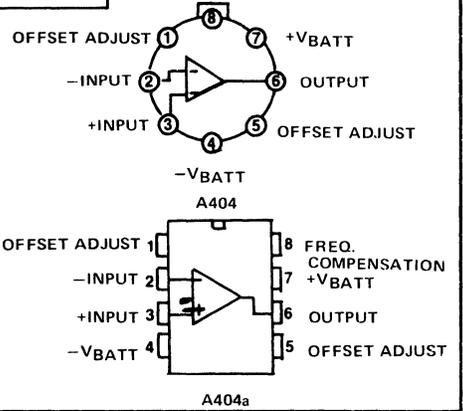
14. CIRCUIT DRAWINGS

A403

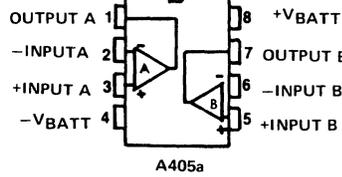
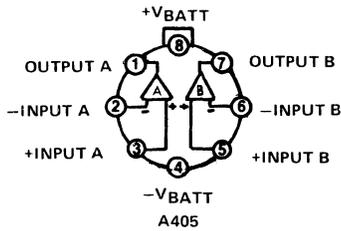


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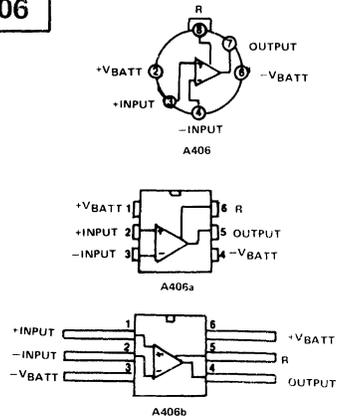
FREQ. COMPENSATION



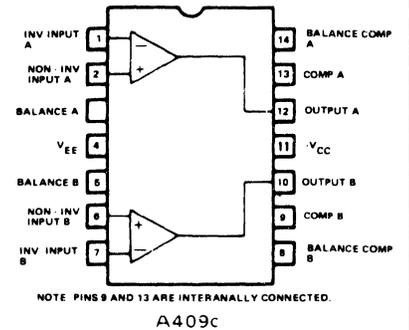
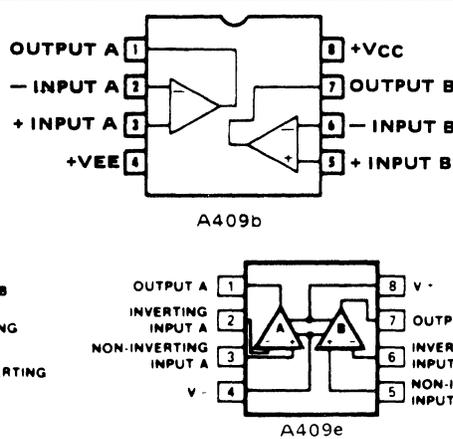
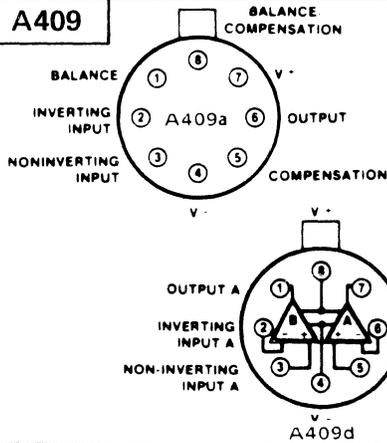
A405



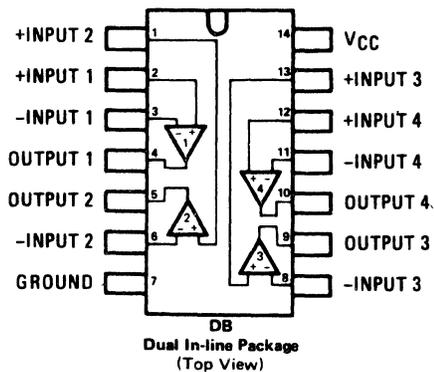
A406



A409



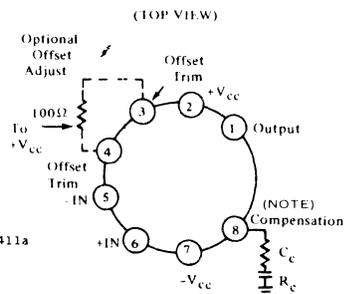
A410



A411

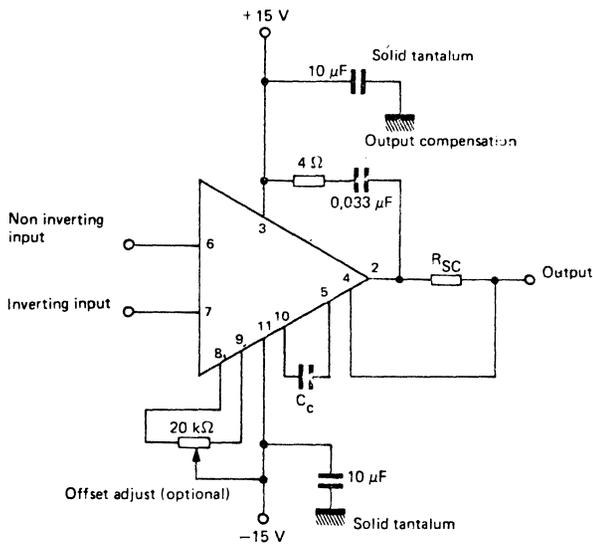
COMPENSATION		
GAIN	C_c	R_c
1	10nF	200 Ω
10	500 pF	2k Ω
100	50pF	20k Ω
1000	NOT REQUIRED	

NOTE: NO CONNECTION AT PIN 8 FOR A411a



14. CIRCUIT DRAWINGS

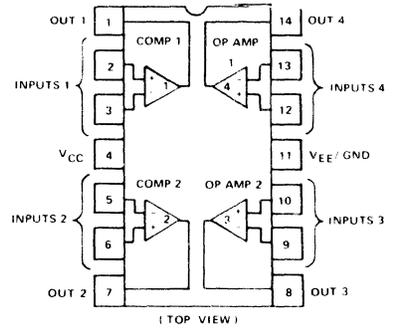
A413



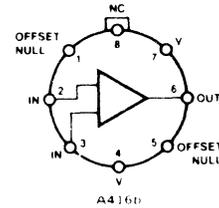
G	C _c
1	100 pF
10	5 pF
100	Not req.

R _{SC}	I _{SC}
0,6 Ω	1 A
1,5 Ω	500 mA
3,0 Ω	250 mA

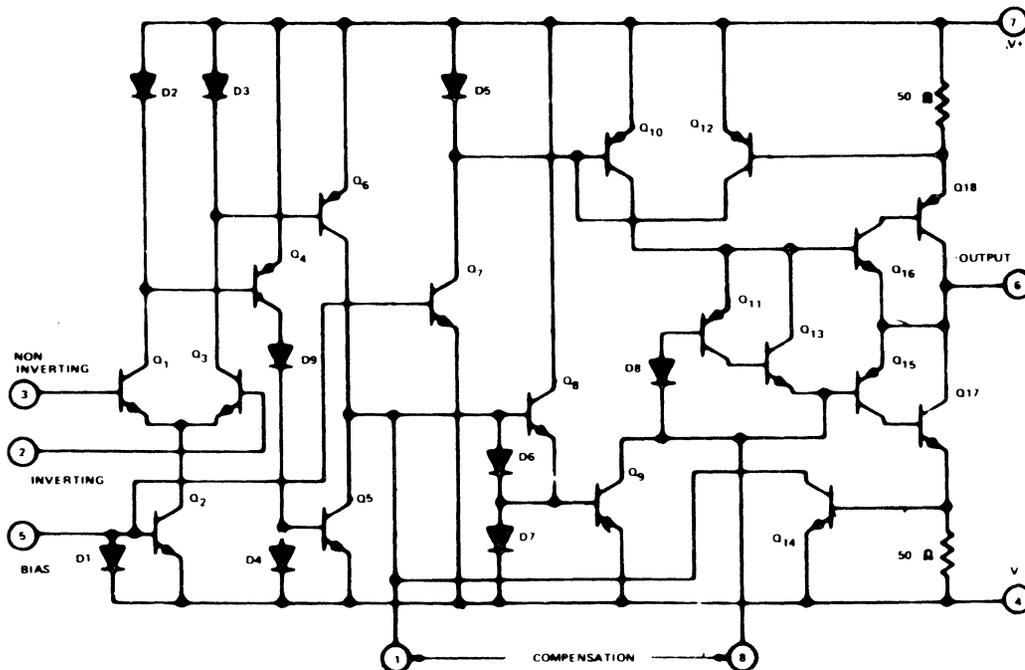
A415



A416B

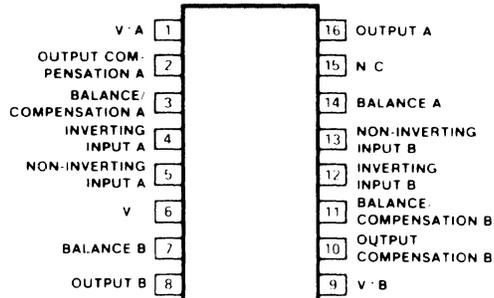


A417

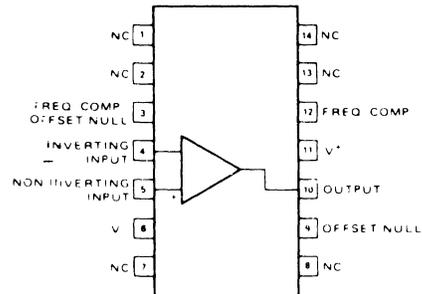


14. CIRCUIT DRAWINGS

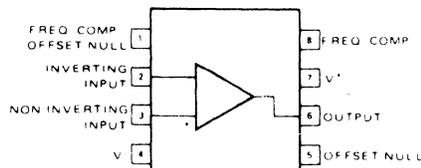
A419



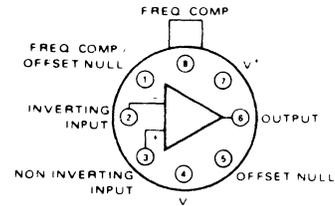
A419



A419a

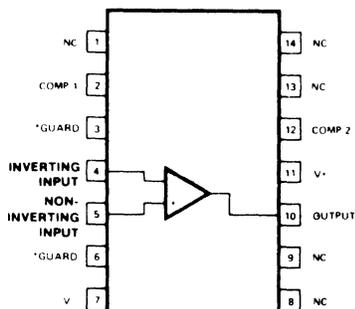


A419b

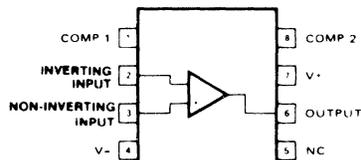


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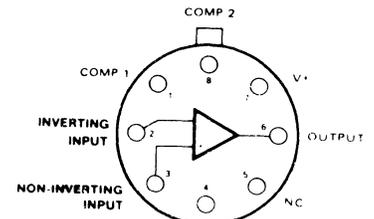
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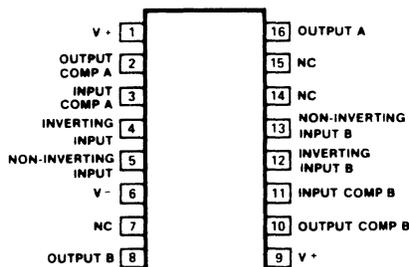
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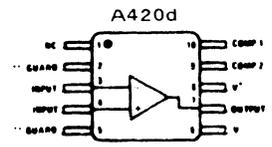
A420a



A420b



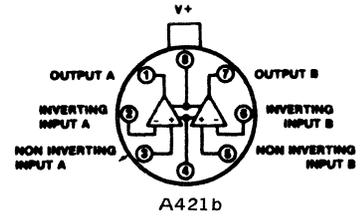
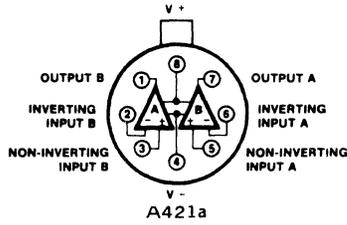
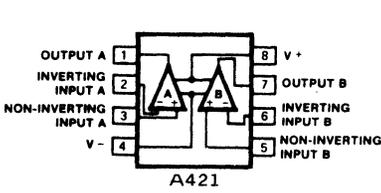
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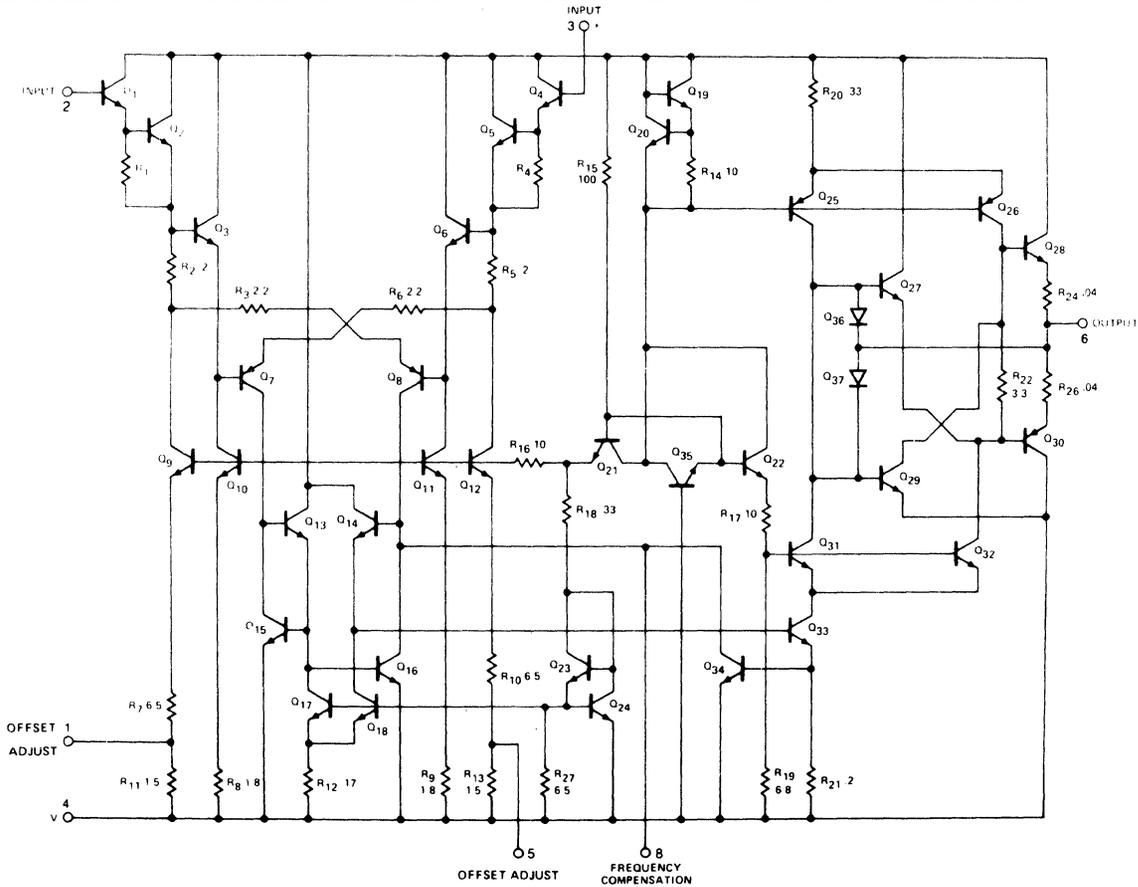
Note: Pin 6 connected to bottom of package.
TOP VIEW

14. CIRCUIT DRAWINGS

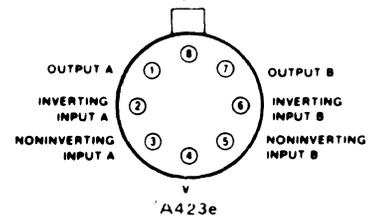
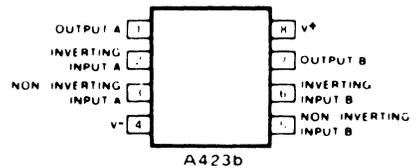
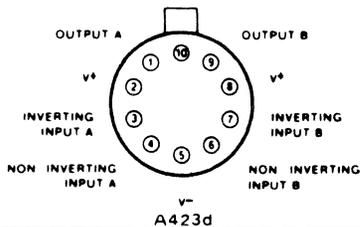
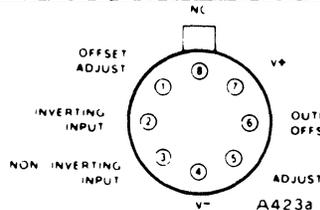
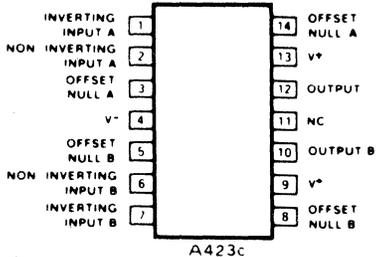
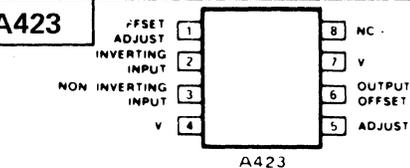
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A422

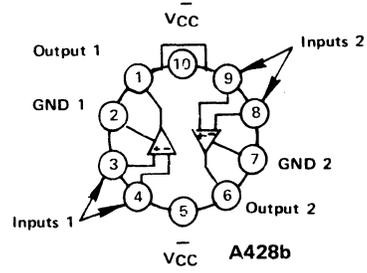
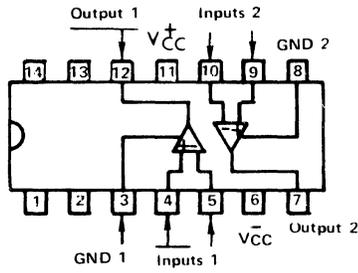


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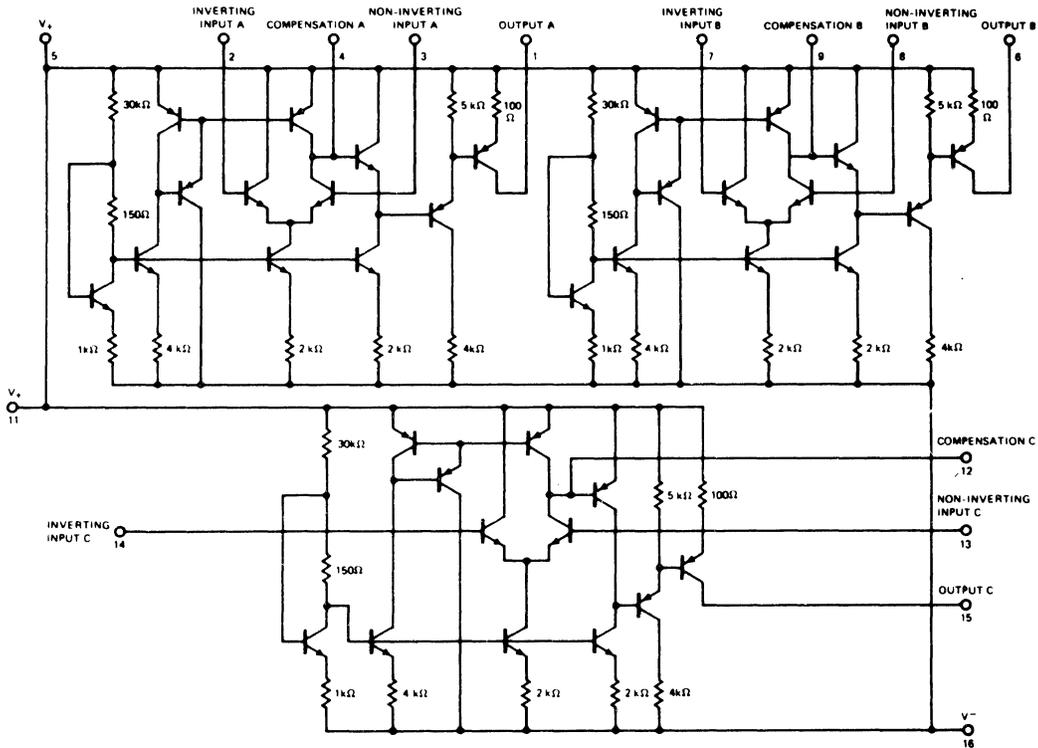
14. CIRCUIT DRAWINGS

A428

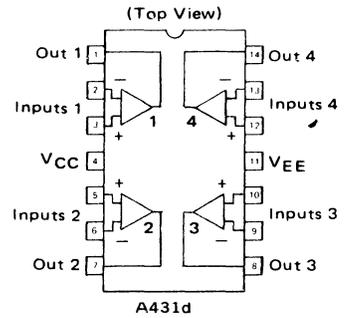
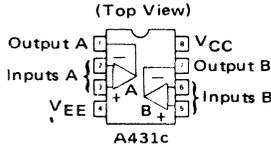
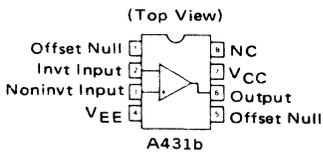
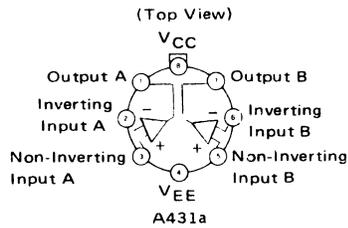
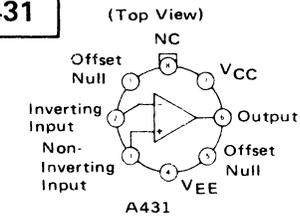


A428b

A430



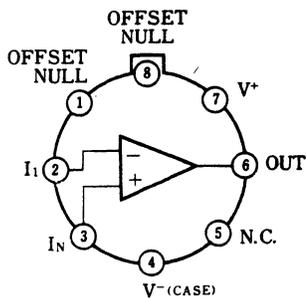
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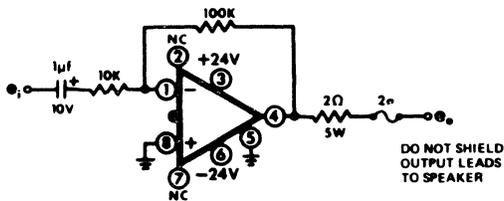
14. CIRCUIT DRAWINGS

A434

(Top View)



A438



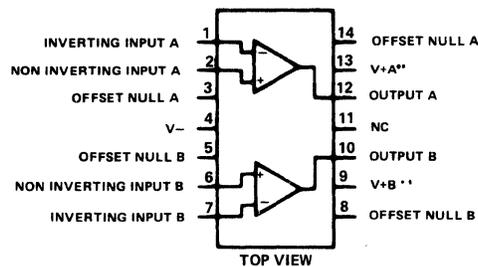
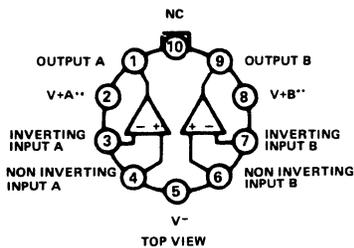
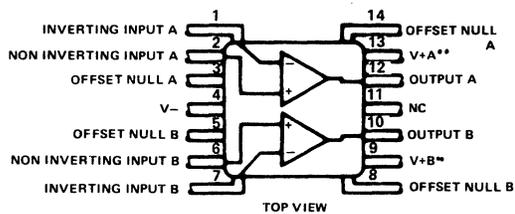
DO NOT SHIELD OUTPUT LEADS TO SPEAKER

A438a: LOAD=8 Ω OR MORE
A438: LOAD=4 Ω OR MORE

A.C. Amplifier
Gain of 10 (+20db)
Z_i=10K

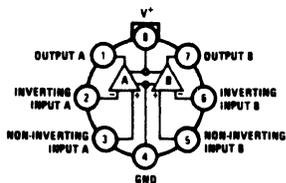
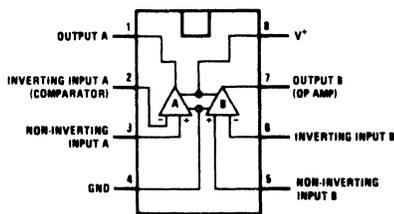
CONNECTIONS (Base) N.C.= No Internal Connection, may be used as tie point

A440

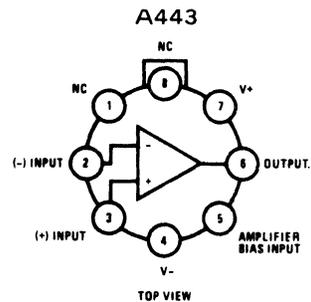


NOTE: NUMBERS IN PARENTHESES ARE PIN NUMBERS FOR AMPLIFIER B, DIP ONLY.
** V+A AND V+B ARE INTERNALLY CONNECTED FOR A440. FOR A440a V+A AND V+B ARE NOT INTERNALLY CONNECTED.

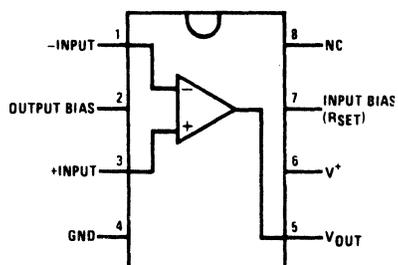
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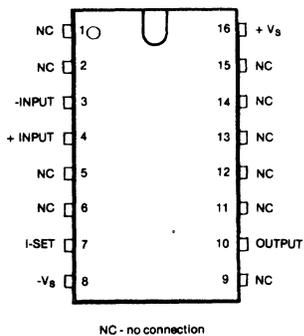
A443



A444

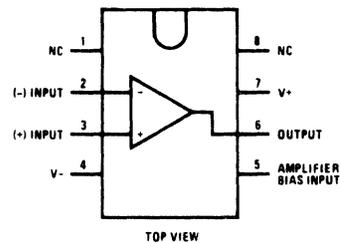


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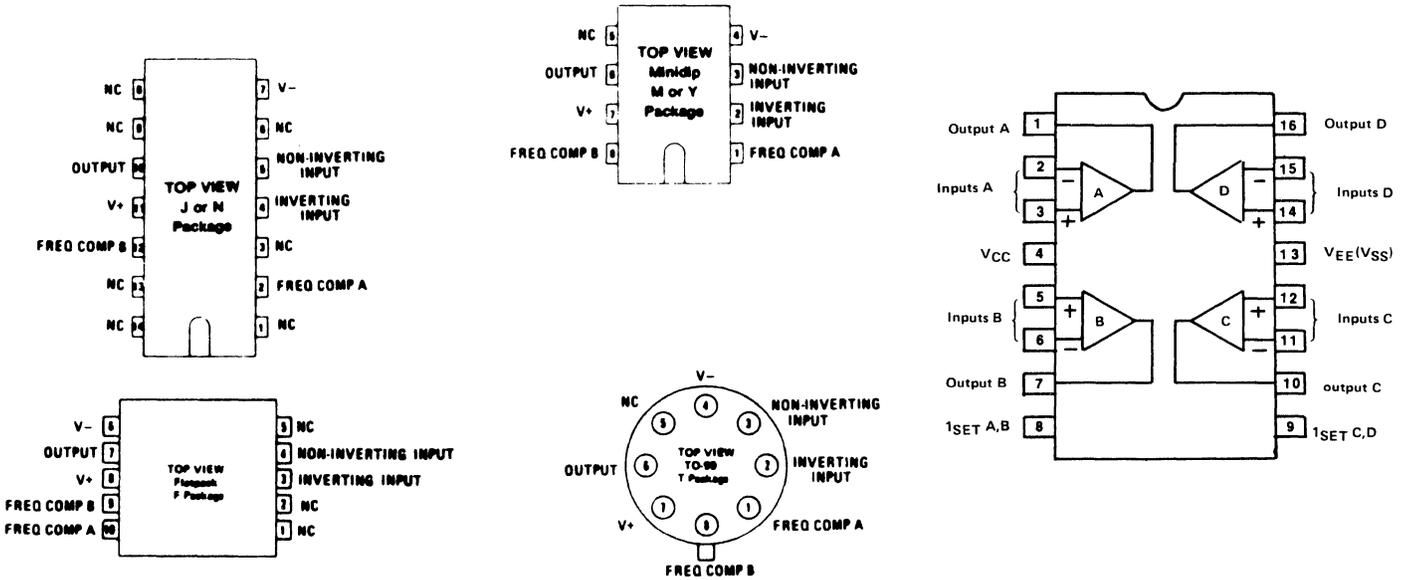
NC - no connection

A443a

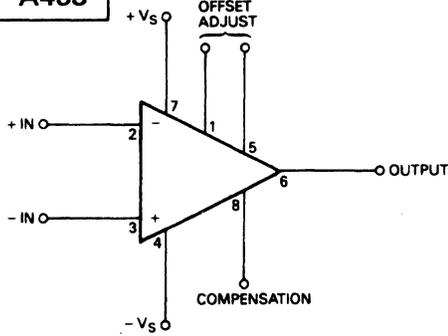


14. CIRCUIT DRAWINGS

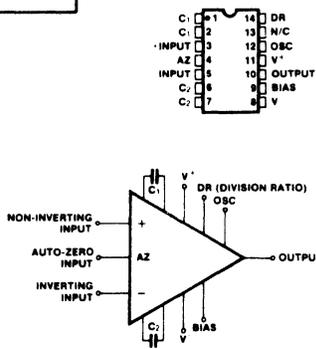
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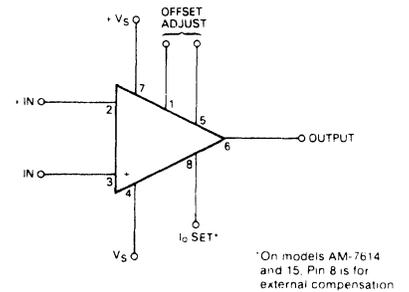
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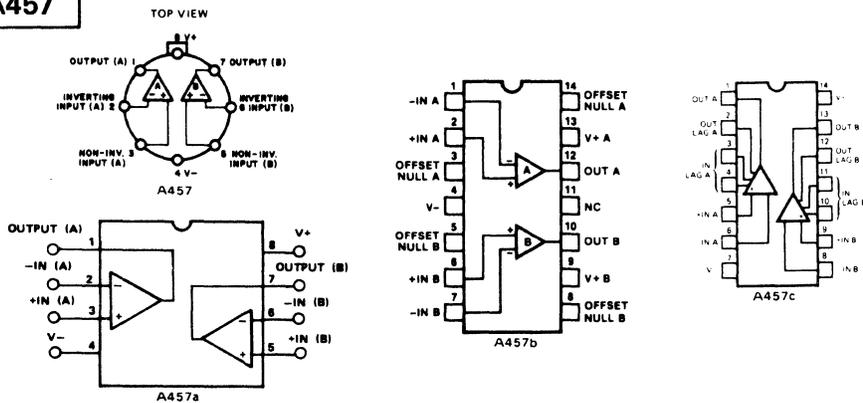
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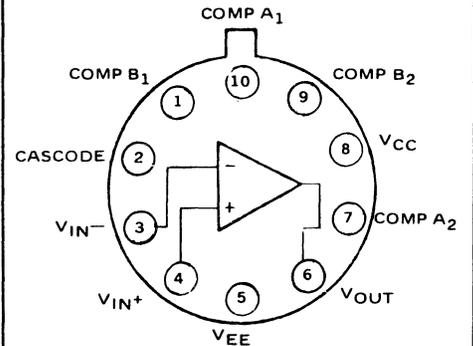
A455



A457



A465

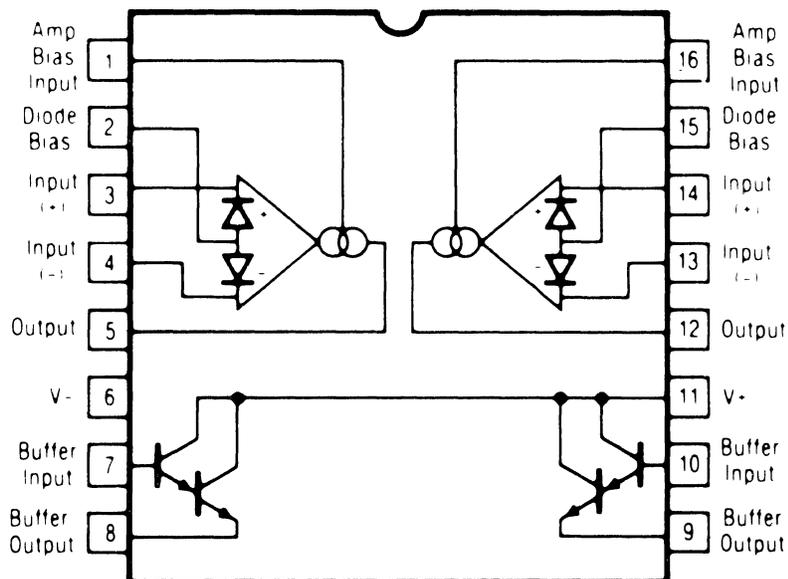


14. CIRCUIT DRAWINGS

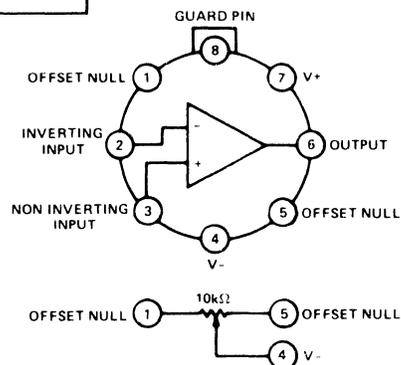
<p>A467</p>	<p>A468</p>	<p>A469</p>																		
<p>A470</p> <p>A470a = Pin 5 = C - Noise Pin 8 = Offset</p>	<p>A471</p>	<p>A472</p>																		
<p>A474</p>	<p>A476</p> <p>Pin Configuration</p> <p>TOP VIEW</p>	<p>A477</p> <p>TOP VIEW</p>																		
<p>A484</p>	<p>A485</p>	<p>A486</p> <p>A486a</p> <table border="1"> <thead> <tr> <th>Pin</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Balance</td> </tr> <tr> <td>2</td> <td>-Input</td> </tr> <tr> <td>3</td> <td>+Input</td> </tr> <tr> <td>4</td> <td>V-</td> </tr> <tr> <td>5</td> <td>Compensation</td> </tr> <tr> <td>6</td> <td>Output</td> </tr> <tr> <td>7</td> <td>V+</td> </tr> <tr> <td>8</td> <td>Balance/Compensation</td> </tr> </tbody> </table>	Pin	Function	1	Balance	2	-Input	3	+Input	4	V-	5	Compensation	6	Output	7	V+	8	Balance/Compensation
Pin	Function																			
1	Balance																			
2	-Input																			
3	+Input																			
4	V-																			
5	Compensation																			
6	Output																			
7	V+																			
8	Balance/Compensation																			

14. CIRCUIT DRAWINGS

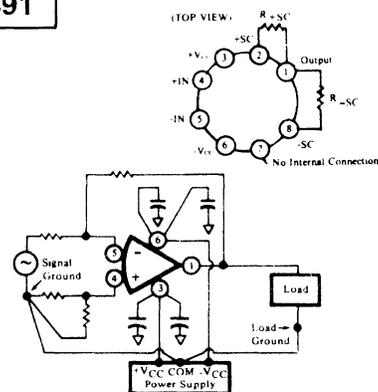
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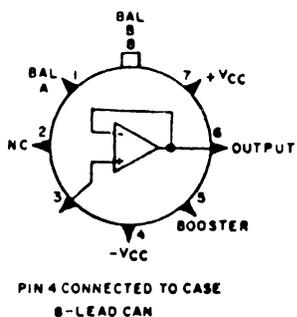
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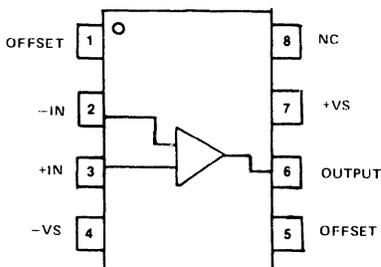
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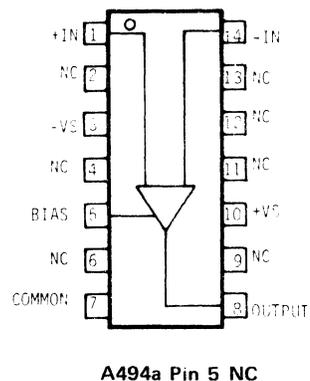
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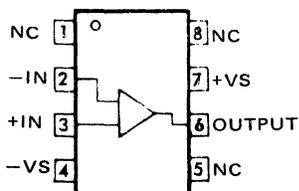
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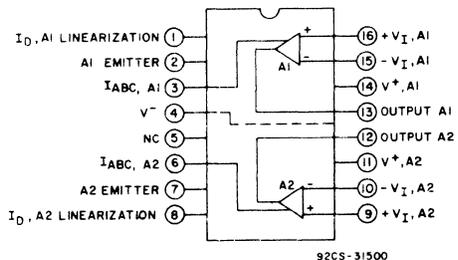
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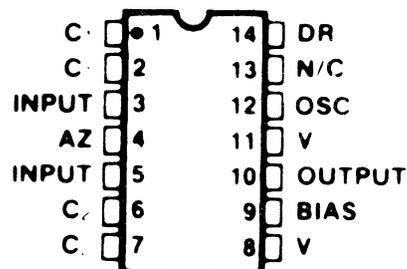
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A499

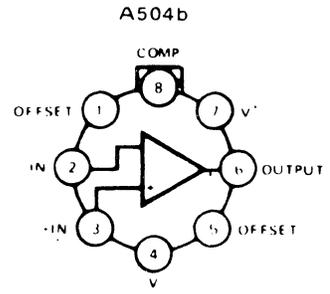
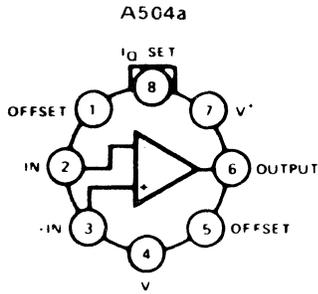
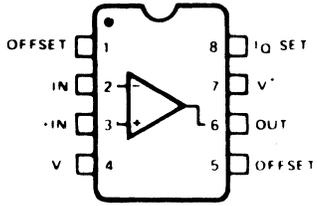


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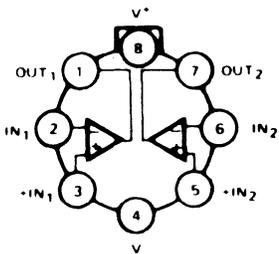


14. CIRCUIT DRAWINGS

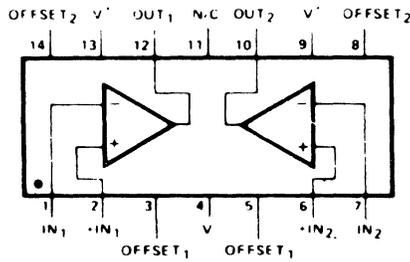
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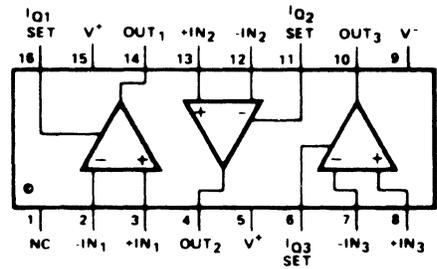
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A504d

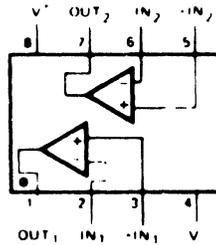
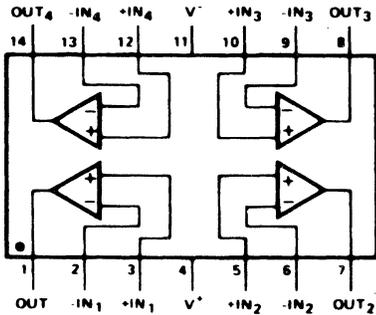


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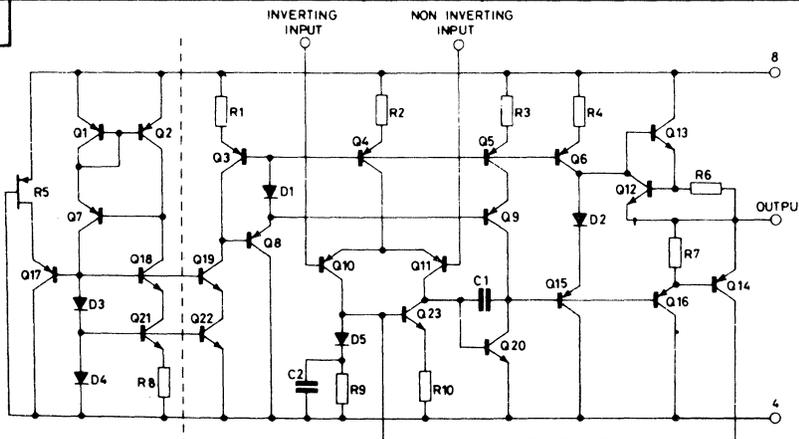


Note: Pins 9 and 13 are internally connected.

A504f

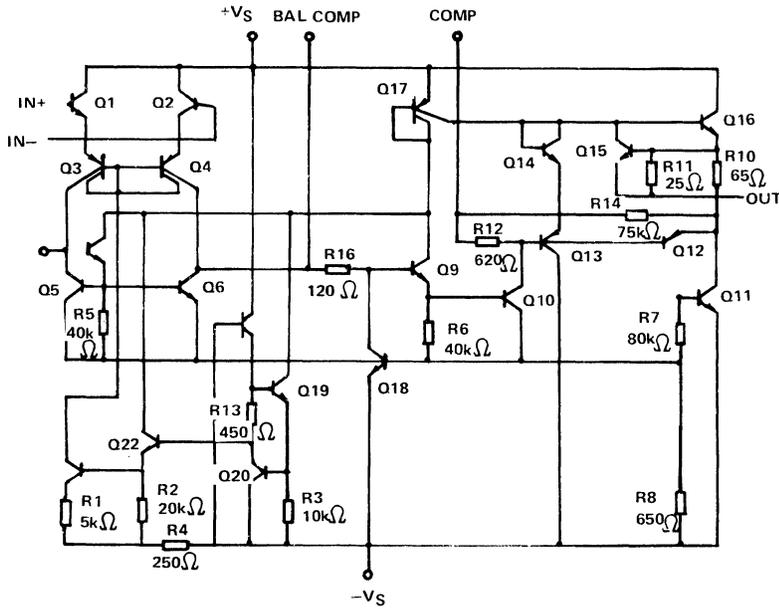


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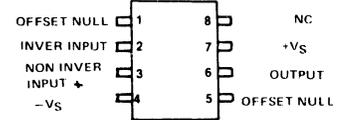
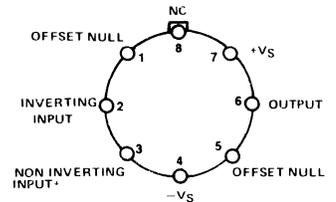


14. CIRCUIT DRAWINGS

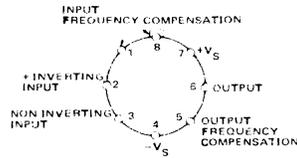
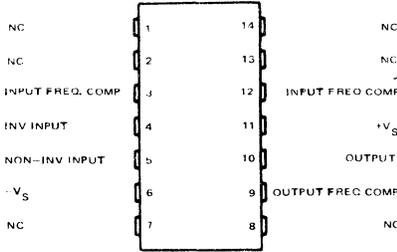
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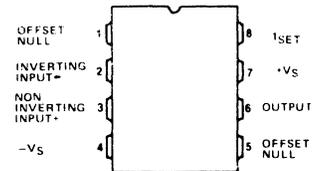
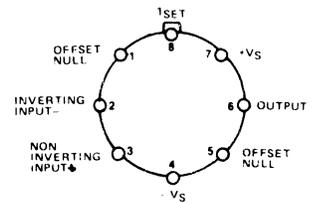
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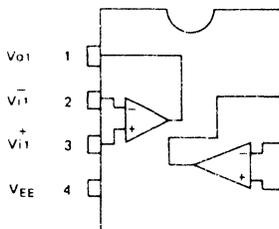
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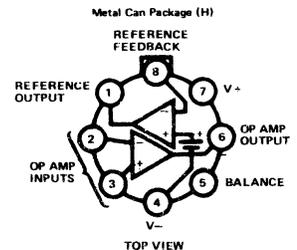
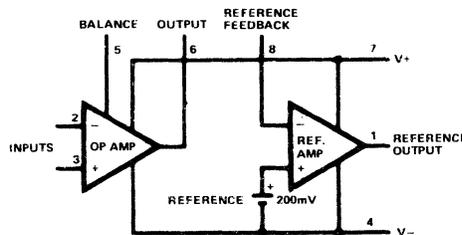
A512



A512a



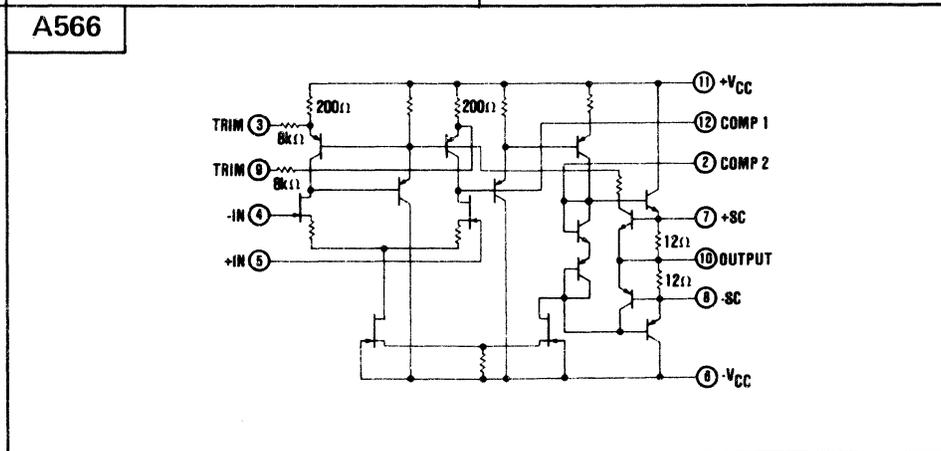
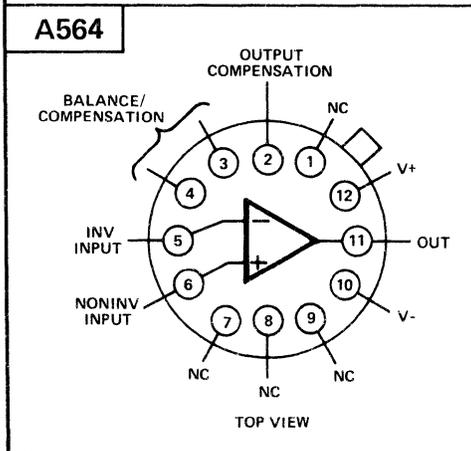
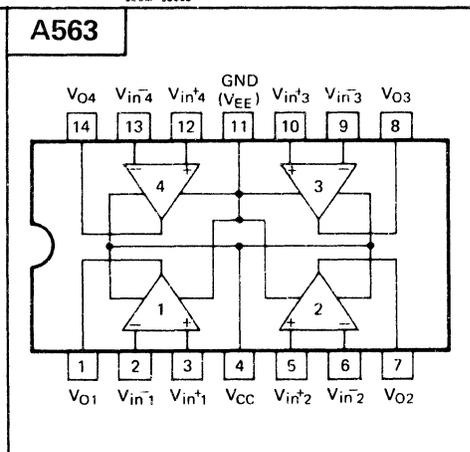
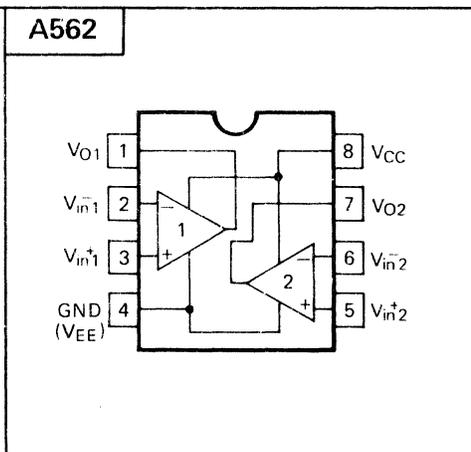
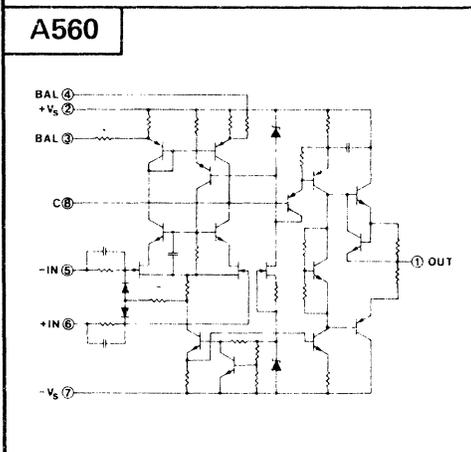
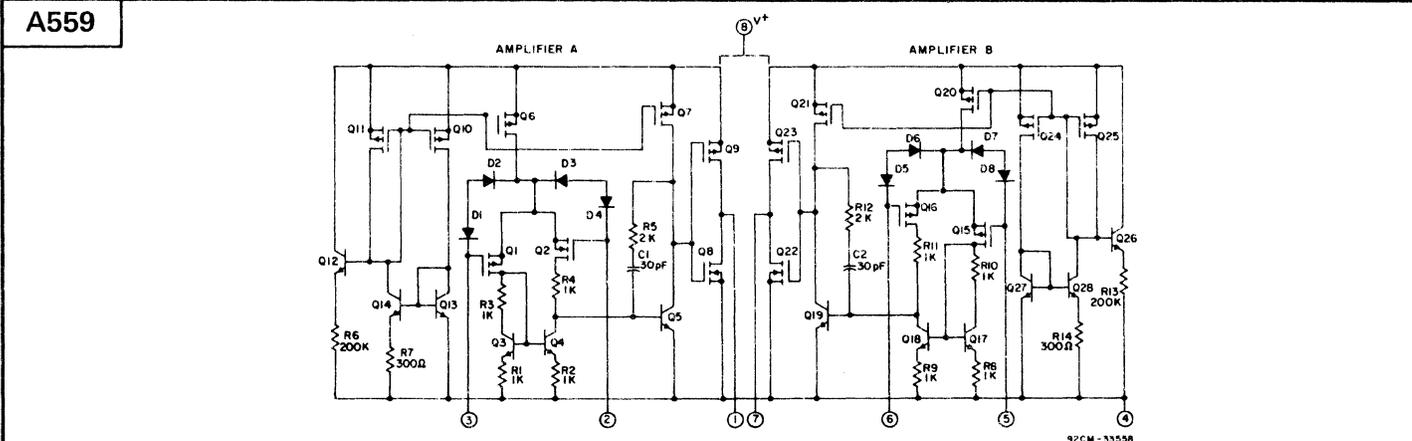
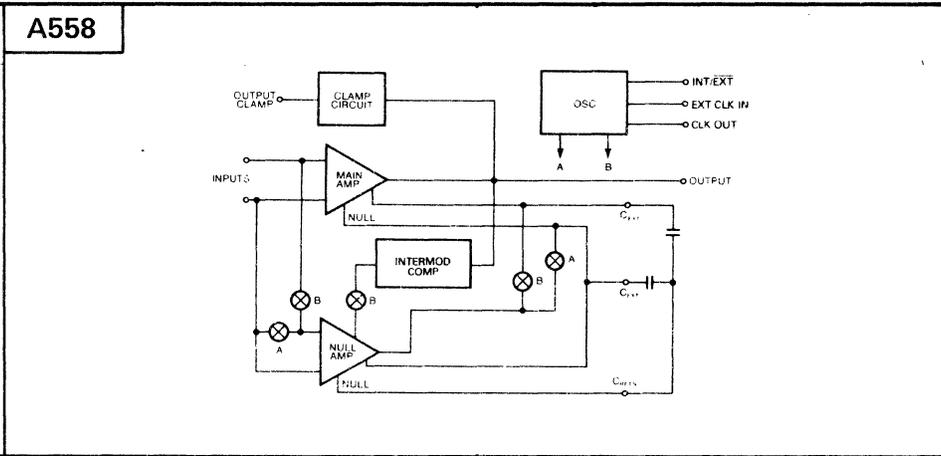
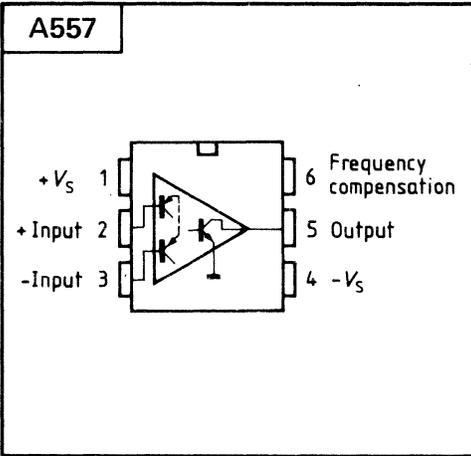
A513



14. CIRCUIT DRAWINGS

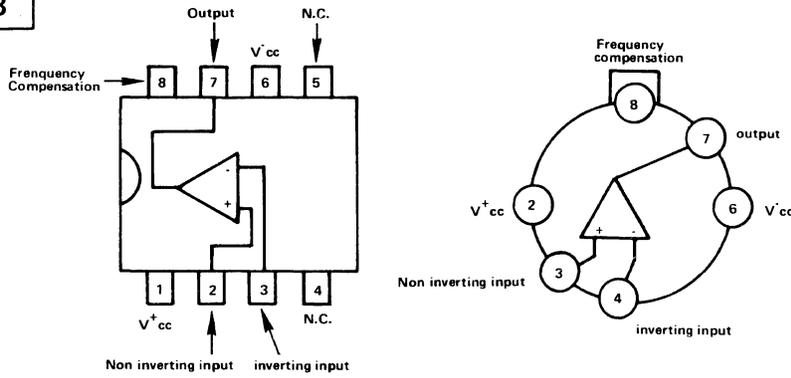
<p>A514</p> <p>TOP VIEW</p>	<p>A515</p> <p>TOP VIEW</p> <p>*Pin 6 can be connected to pin 10, if not, pin 6 must be left with no connection.</p>	<p>A516</p>
<p>A519</p>	<p>A520</p> <p>A519a</p>	
<p>A524</p>		<p>A530</p>
<p>A531</p>	<p>A542</p>	<p>A547</p>

14. CIRCUIT DRAWINGS

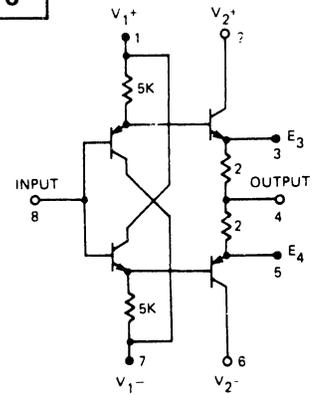


14. CIRCUIT DRAWINGS

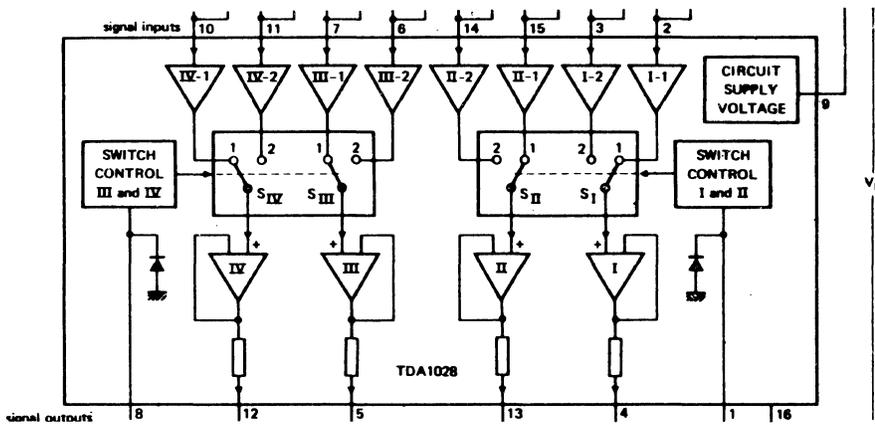
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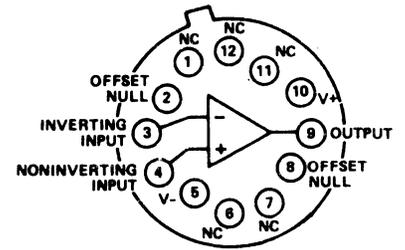
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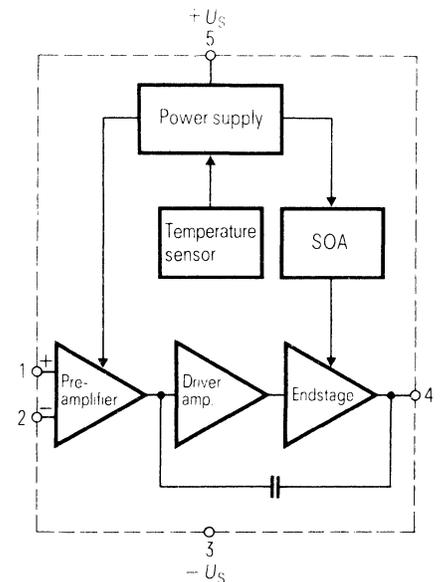
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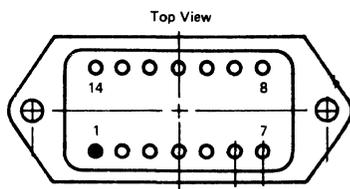
A572



A575



A576



- 1 - In
- 2 + In
- 3 N.C.
- 4 N.C.
- 5 - V_{cc}
- 6 - Current Limit
- 7 N.C.
- 8 Output
- 9 + Current Limit
- 10 + V_{cc}
- 11 Compensation
- 12 Compensation
- 13 Offset Adjust
- 14 Offset Adjust

- 1 Non-inverting input
- 2 Inverting input
- 3 Output

14. CIRCUIT DRAWINGS

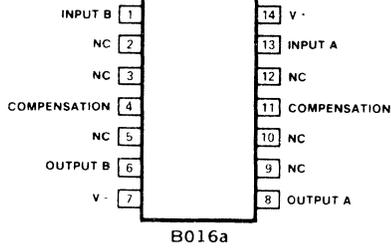
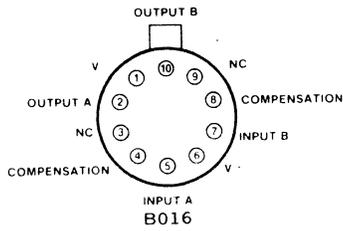
<p>A577</p>	<p>A578</p> <p>TAB 1453 GG/TAE 1453 GG</p>	<p>A579</p> <p>Dual-In-Line Package</p> <p>CASE IS ELECTRICALLY ISOLATED</p> <p>Top View</p>
<p>A580</p>	<p>A581</p>	
<p>A582</p>	<p>A583</p>	
<p>A584</p> <p>TOP VIEW</p>	<p>A585</p>	<p>A586</p> <p>TOP VIEW</p>

14. CIRCUIT DRAWINGS

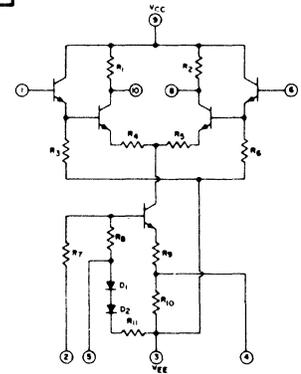
<p>A587</p>	<p>A588</p>	<p>A590</p>
<p>A592</p>	<p>A594</p>	<p>A595</p>
<p>A598 Class A Amplifier</p>	<p>A599 Operational Amplifier</p>	
<p>A600 Voltage Comparator</p>	<p>A601 Op-Amp</p>	

14. CIRCUIT DRAWINGS

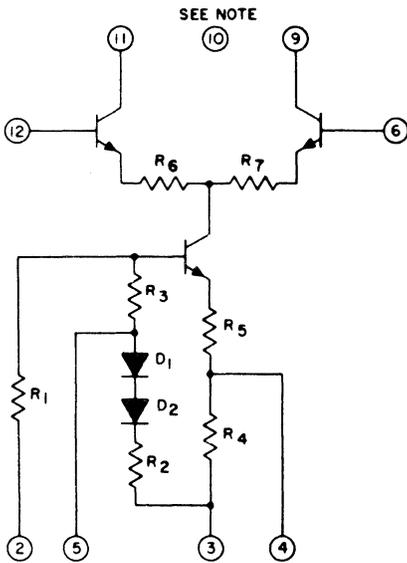
B016



B018

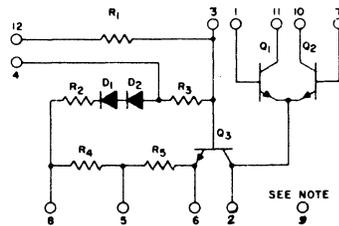


B019



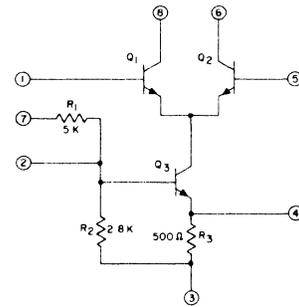
NOTE: Connect Terminal No. 10 to most positive dc supply voltage used for circuit.

B020

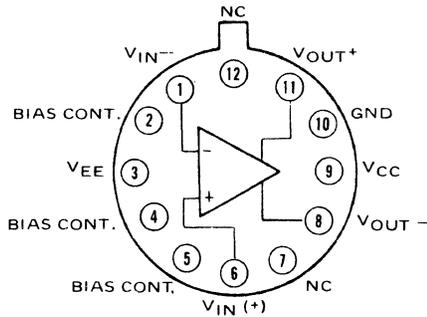


NOTE: Connect Terminal No. 9 to most positive dc supply voltage used for circuit.

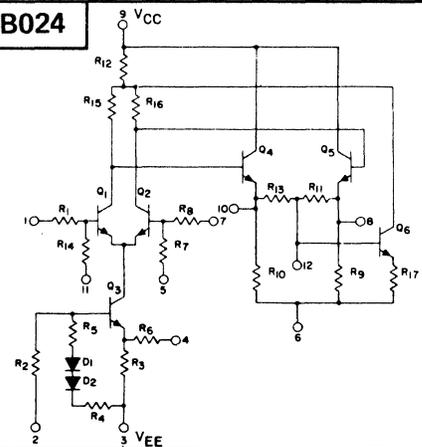
B021



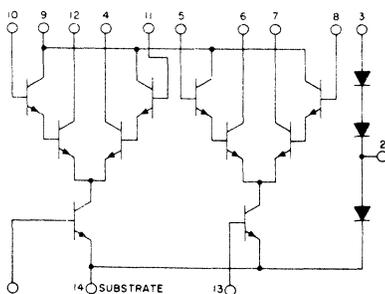
B023



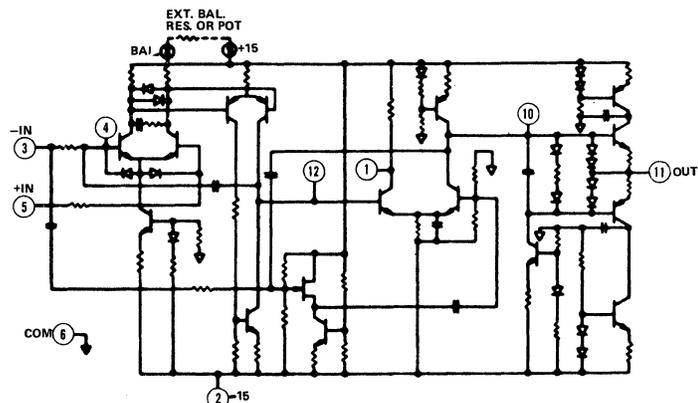
B024



B038



B043



14. CIRCUIT DRAWINGS

B046

FRQ	GAIN	SCALE	IND	COL	P	V+	V-
0046	0	10	4	3	1	2	7
0046	1	10	4	3	1	2	7
0046	2	10	4	3	1	2	7
0046	3	10	4	3	1	2	7
0046	4	10	4	3	1	2	7
0046	5	10	4	3	1	2	7
0046	6	10	4	3	1	2	7
0046	7	10	4	3	1	2	7
0046	8	10	4	3	1	2	7
0046	9	10	4	3	1	2	7
0046	10	10	4	3	1	2	7

B048

SUBSTRATE AND CASE

B049

SUBSTRATE

B050

FLAT PACKAGE

METAL CAN PACKAGE

NOTE: PIN 4 CONNECTED TO CASE.

TOP VIEW

DUAL-IN-LINE PACKAGE

NOTE: PIN 6 CONNECTED TO BOTTOM OF PACKAGE

TOP VIEW

B057

Substrate

B060

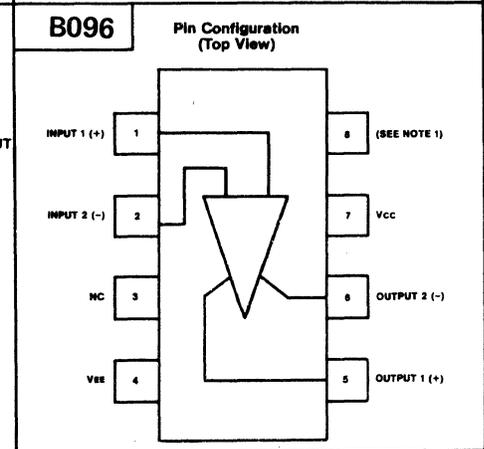
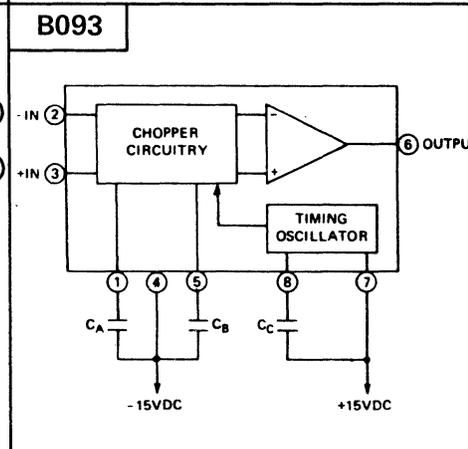
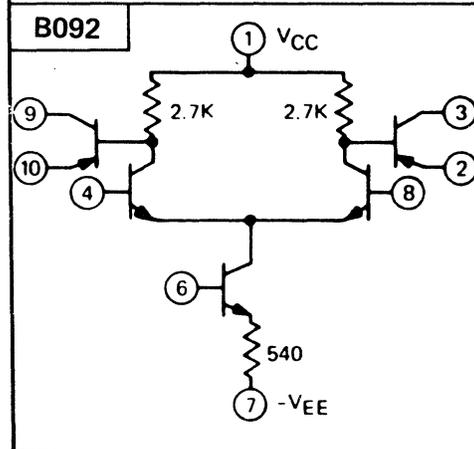
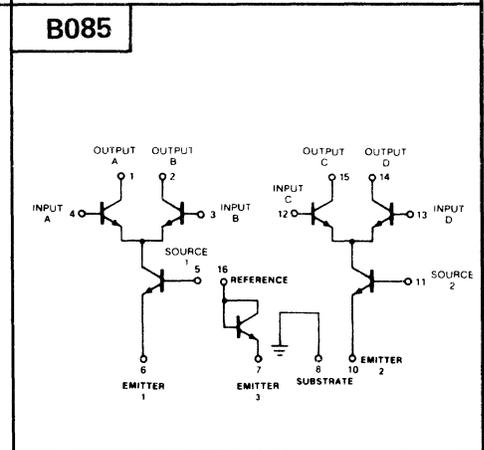
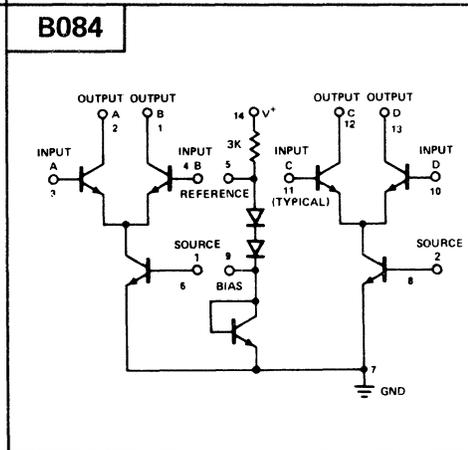
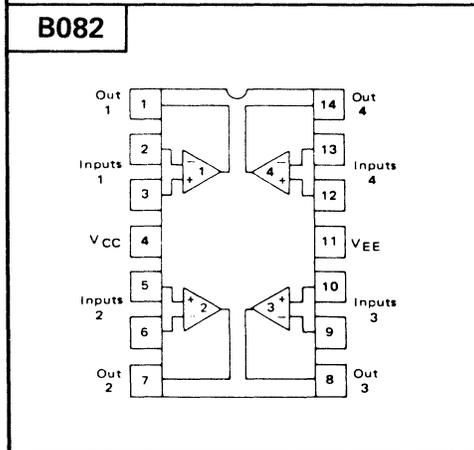
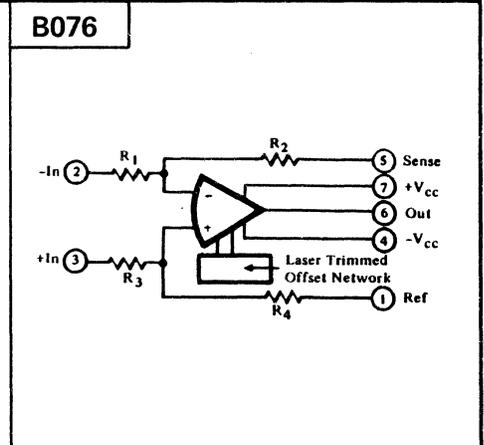
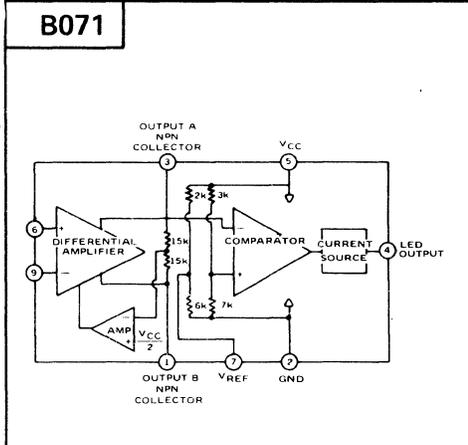
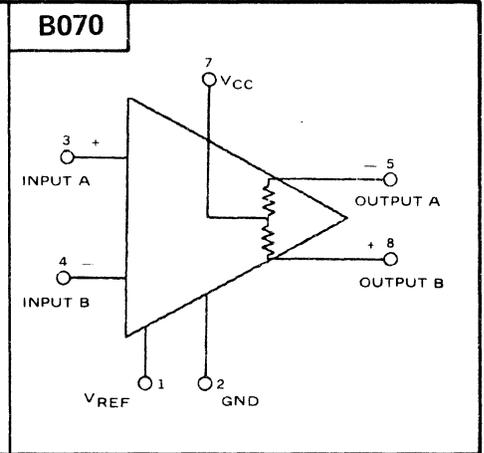
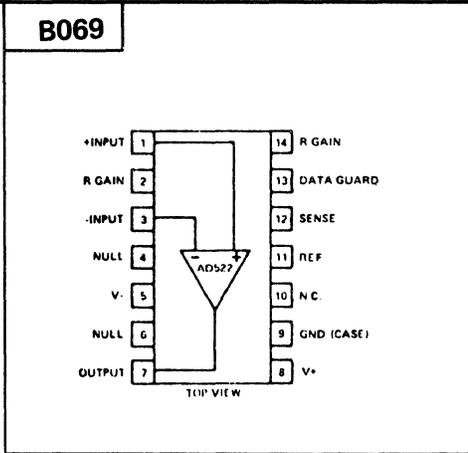
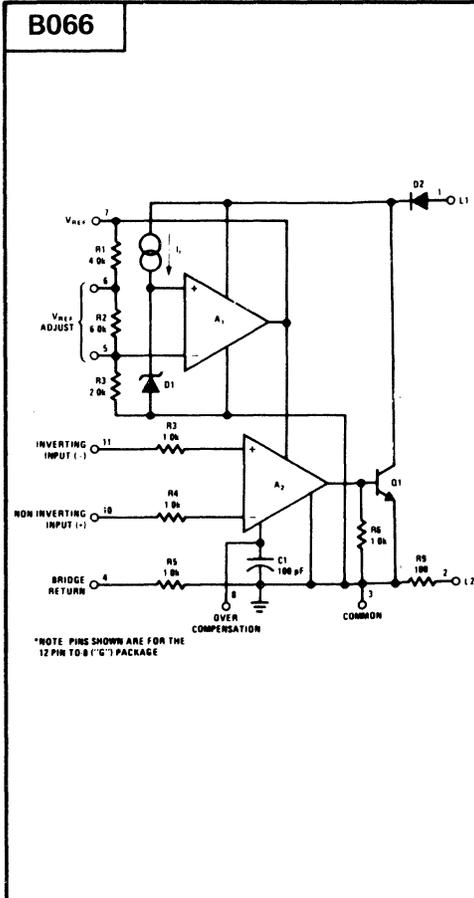
EXT BAL RES OR POT

COM CASE

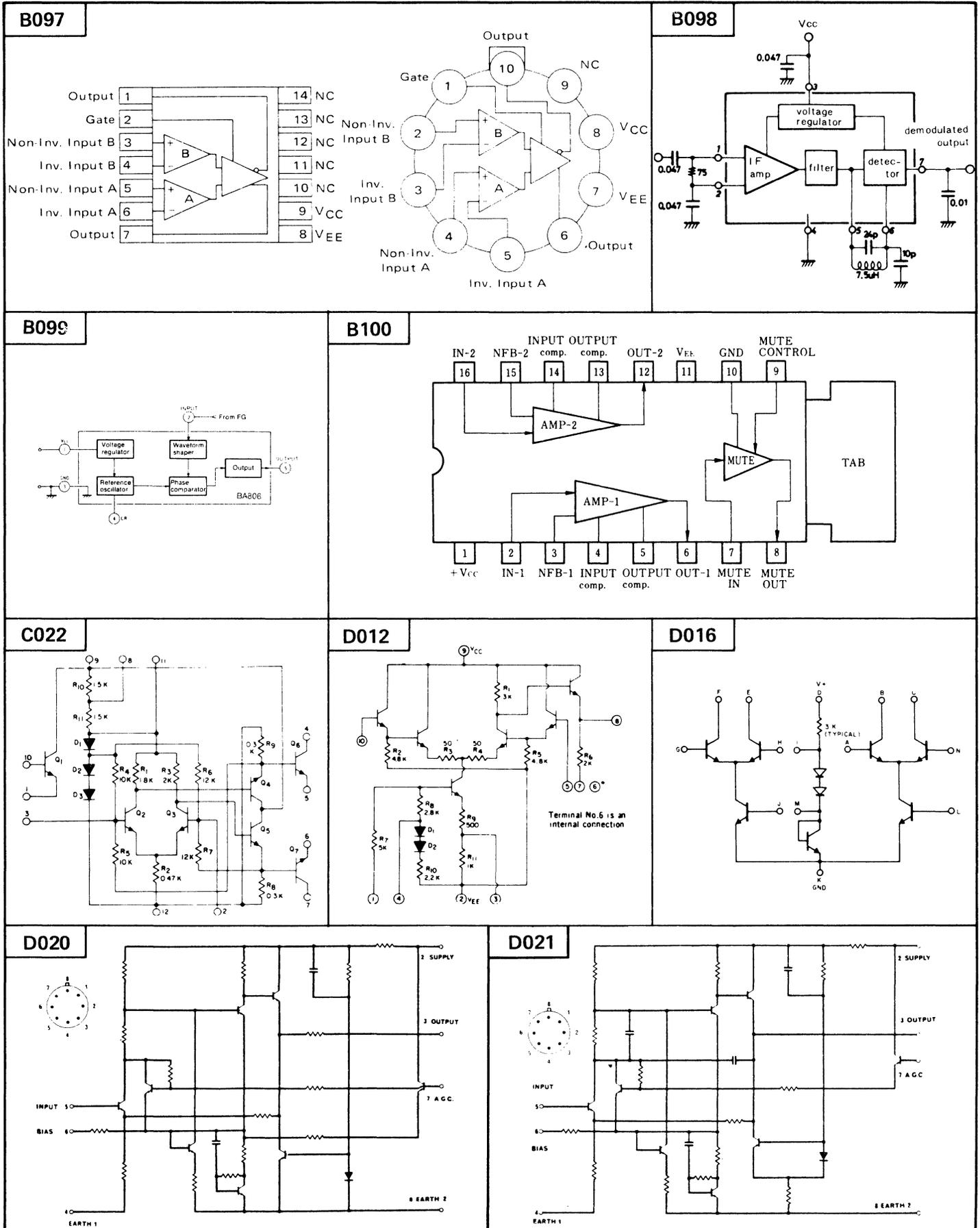
B062

B063

14. CIRCUIT DRAWINGS

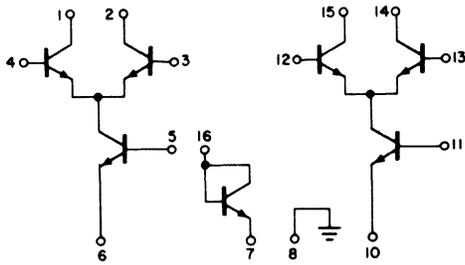


14. CIRCUIT DRAWINGS

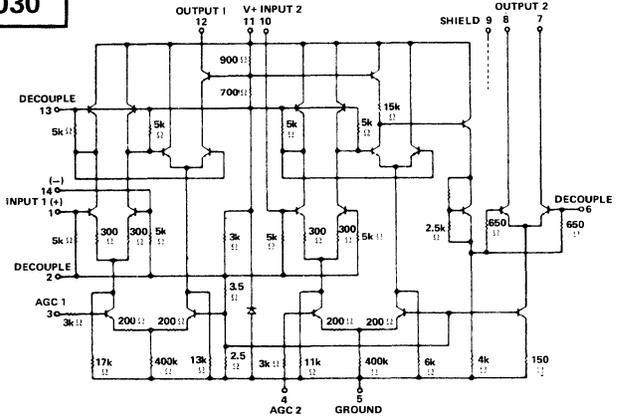


14. CIRCUIT DRAWINGS

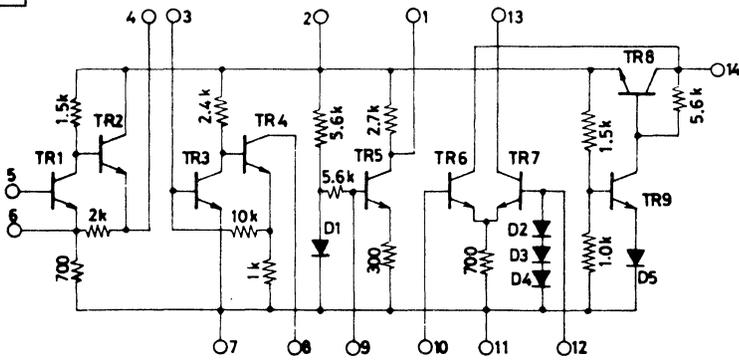
D026



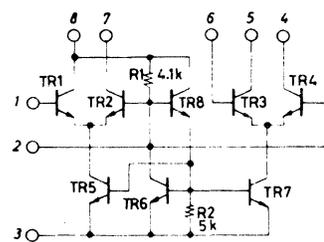
D030



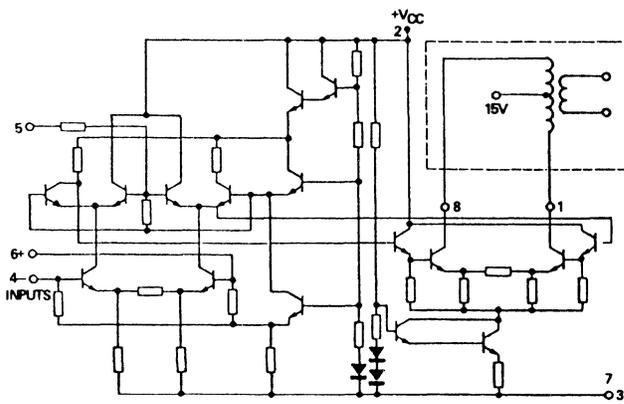
D044



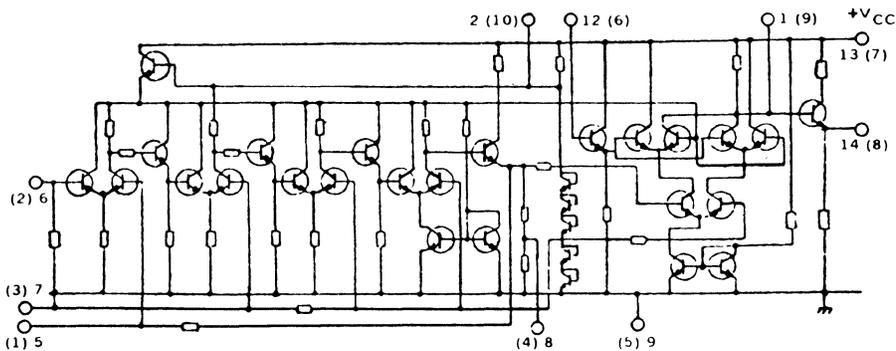
D045



D049



D050



D050a - PIN NUMBERS IN PARENTHESIS

14. CIRCUIT DRAWINGS

D052

1	DECOUPLING	6	GAIN CONTROL	1	GROUND	8	OUTPUT
2	INPUT	7	OUTPUT	2	INPUT	9	NOT TO USE
3	INPUT	8	OUTPUT	3	DECOUPLING	10	+V _{CC}
4	DECOUPLING	9	+V _{CC}	4	GROUND	11	REGULATED VOLTAGE
5	GROUND	10	REGULATED VOLTAGE	5	GAIN CONTROL	12	NOT TO USE
				6	NOT OT USE	13	DECOUPLING
				7	OUTPUT	14	INPUT

D054

D055

D066

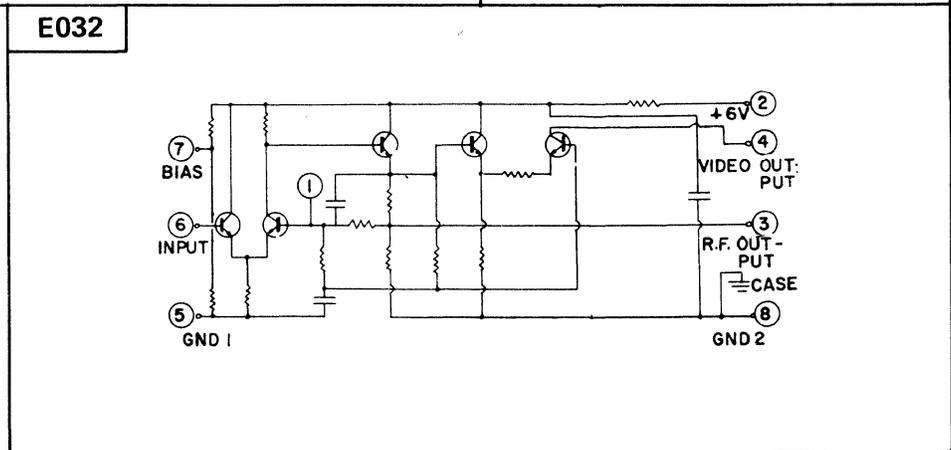
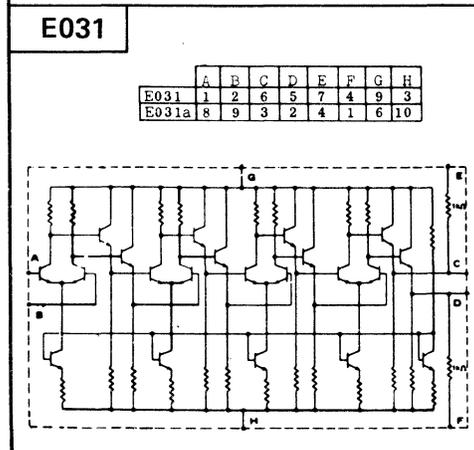
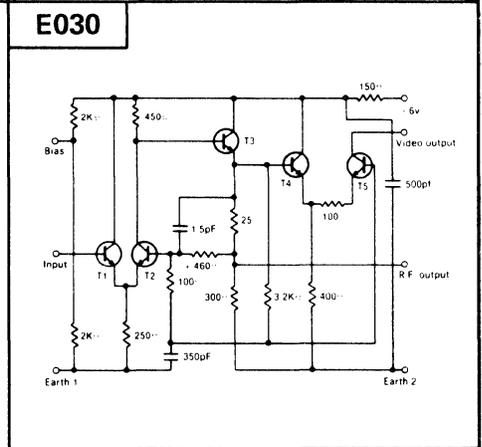
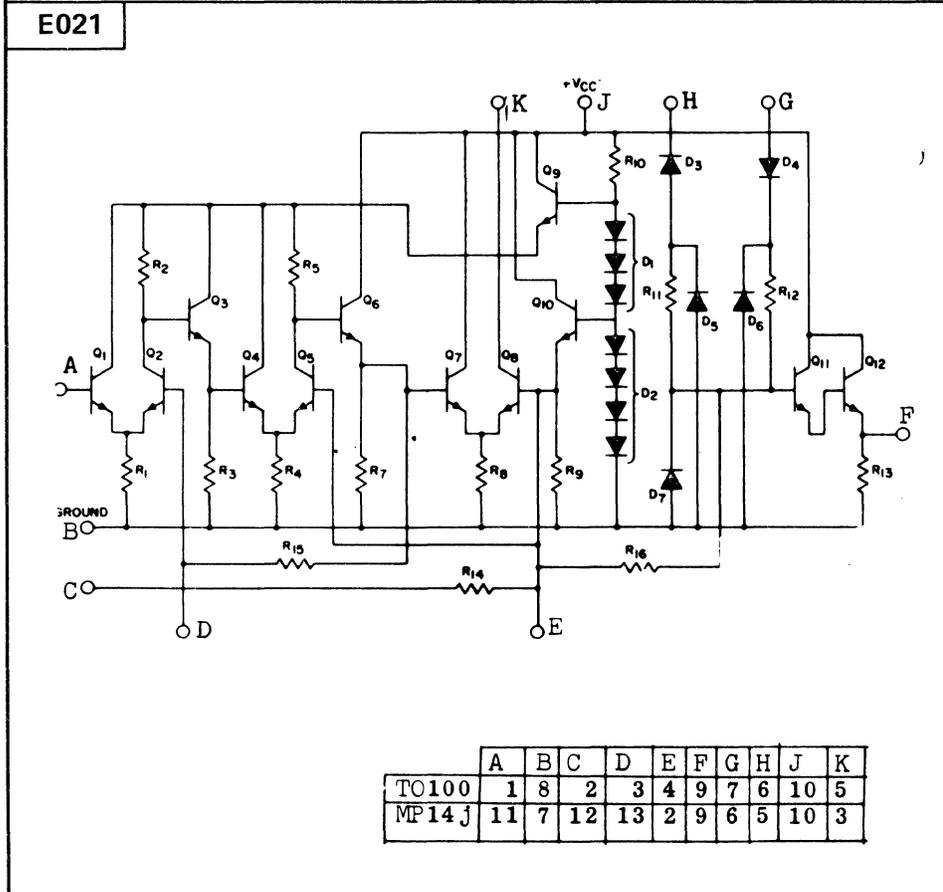
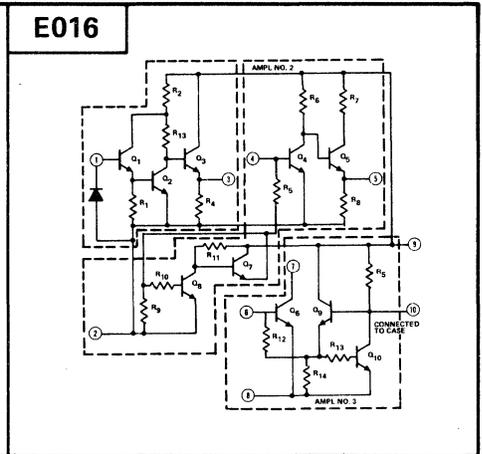
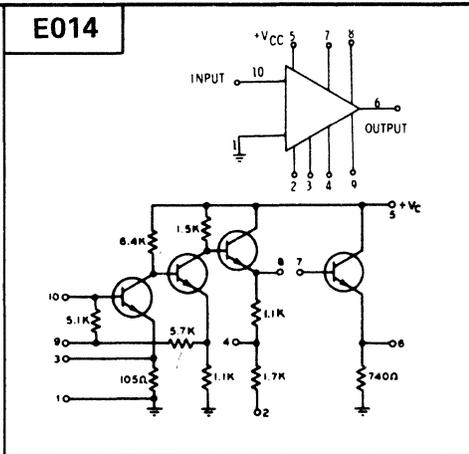
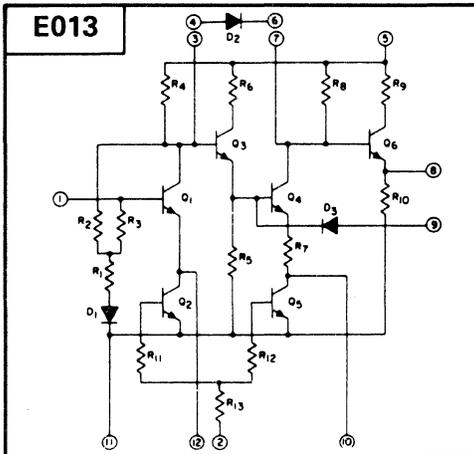
INPUT BYPASS (14), BYPASS (13), RF OUTPUT (12), DETECTOR INPUT (11), DETECTOR INPUT (10), NC (9), AF OUTPUT (8)
 INPUT (1), NC (2), INPUT BIAS (3), GND (4), GND (5), CARRIER OUTPUT (6), V_{CC} (7)

D067

PIN 1 RF INPUT
 2, 3, 7, 8 DC AND RF GROUND
 5 V_{DC}
 9 RF OUTPUT

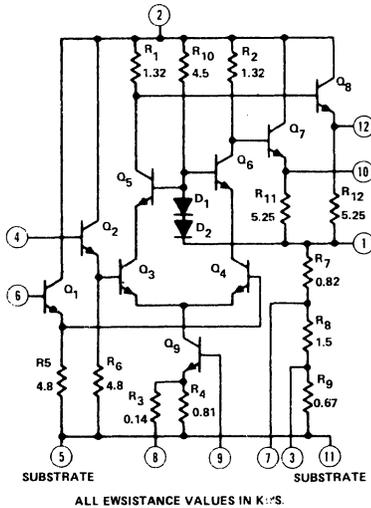
D068

14. CIRCUIT DRAWINGS

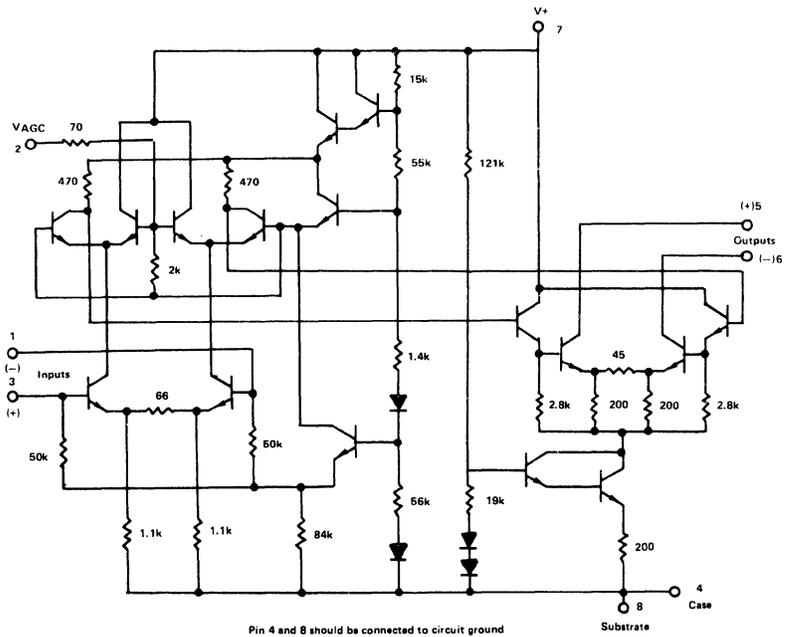


14. CIRCUIT DRAWINGS

E035

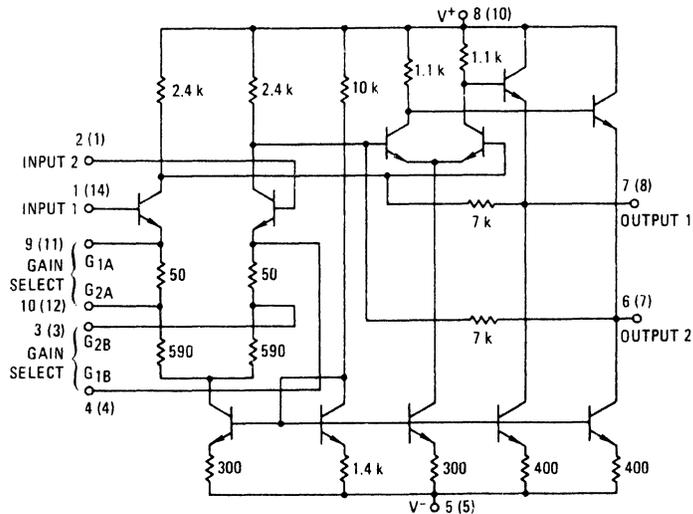


E038



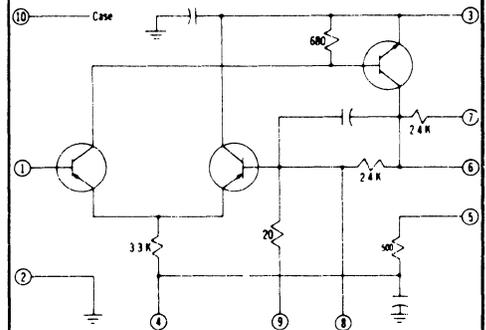
E040

FIGURE 3 - CIRCUIT SCHEMATIC

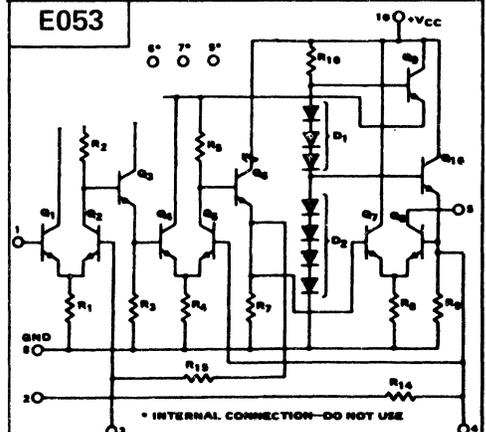


E040	TO100, CN	OUTPUT		V		GAIN		CF2		GAIN		CP1		INPUT		NC
		1	2	+	-	A	B	A	B	1	2	1	2			
		7	6	8	5	10	3	9	4	1	2					
	MF, PF, TO116	8	7	10	5	12	3	11	4	14	1	2, 6, 9, 13				

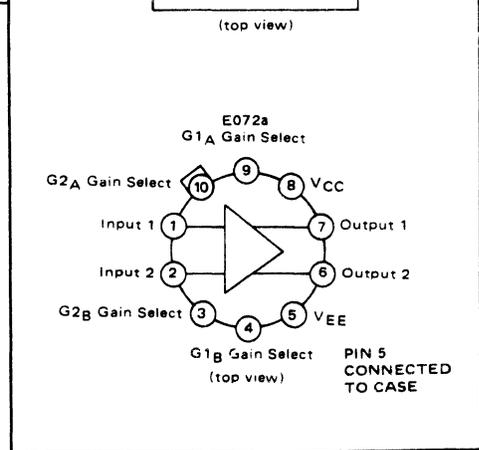
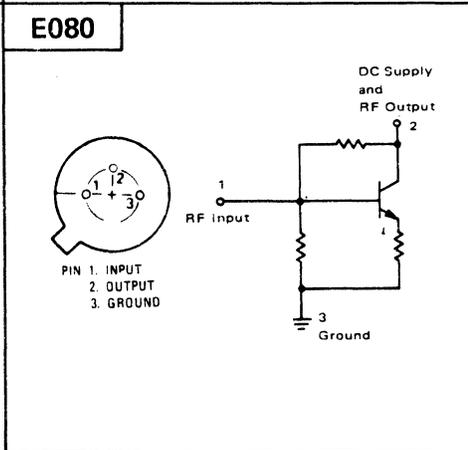
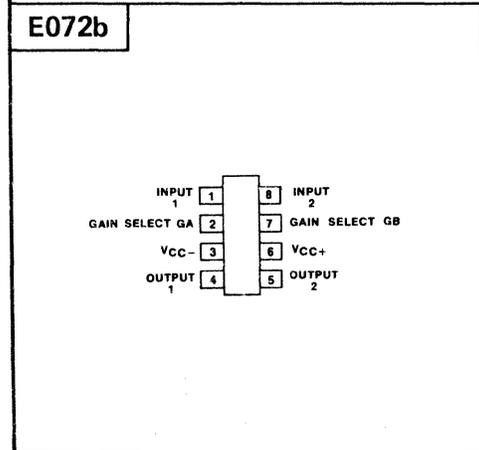
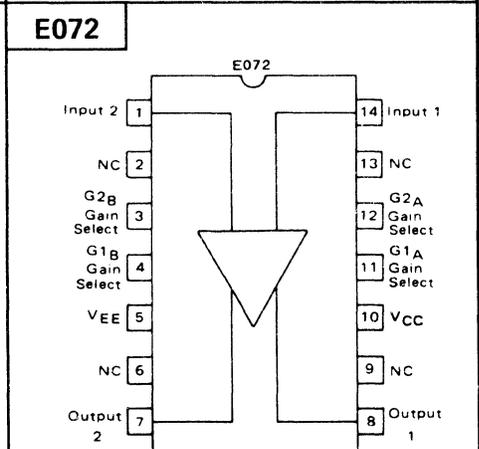
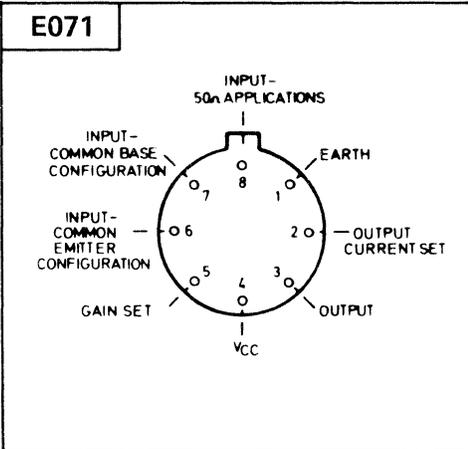
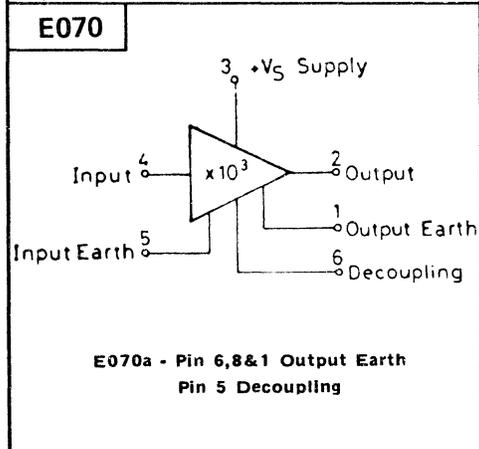
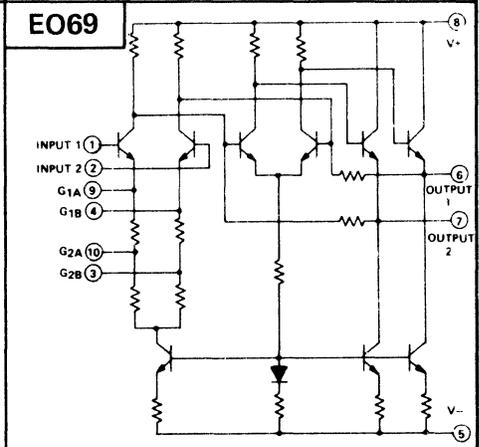
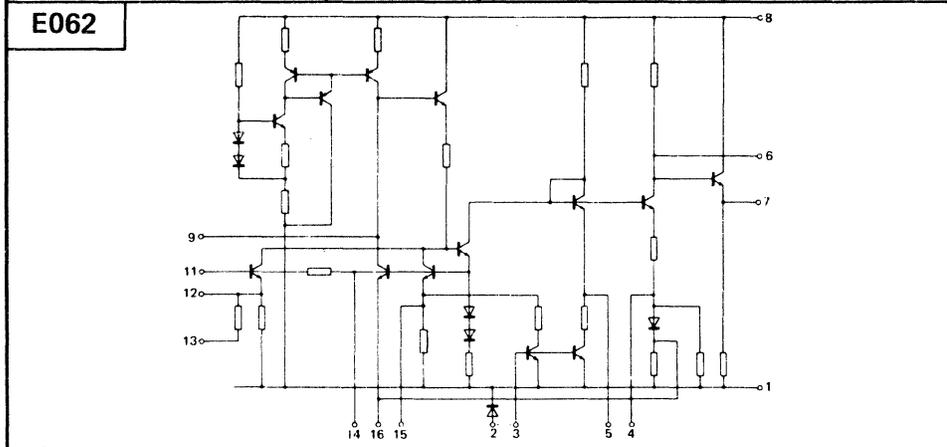
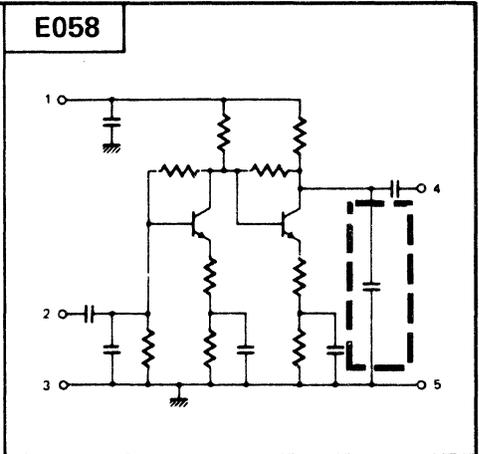
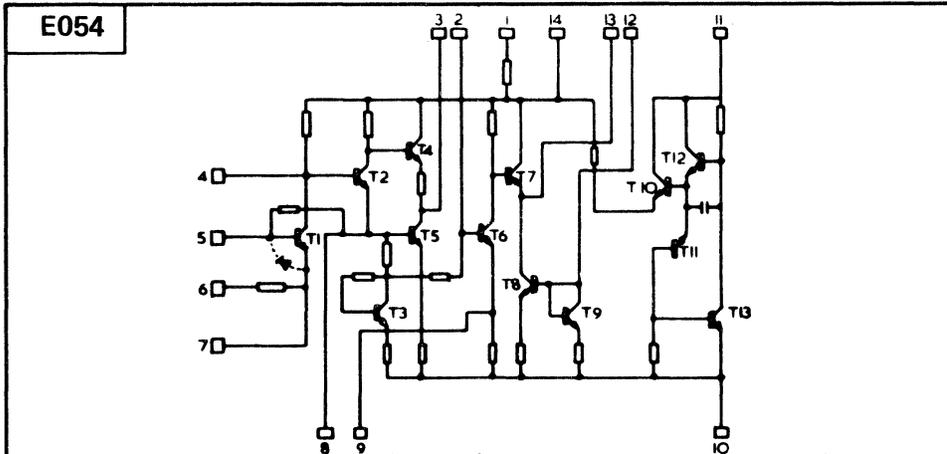
E043



E053



14. CIRCUIT DRAWINGS



14. CIRCUIT DRAWINGS

E086

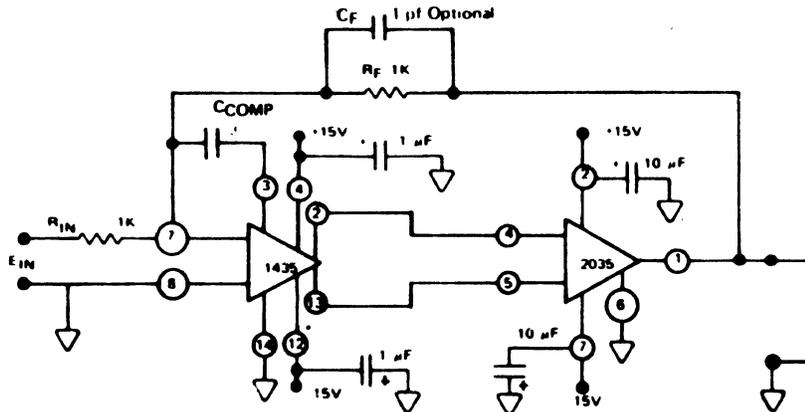
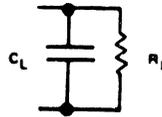
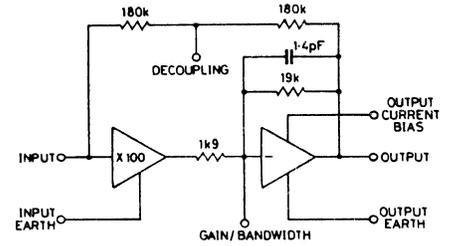


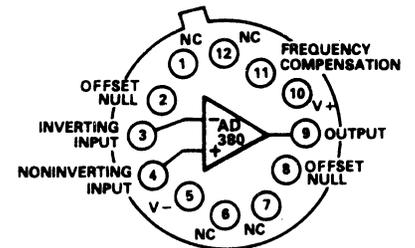
Figure 2. Typical Booster Application



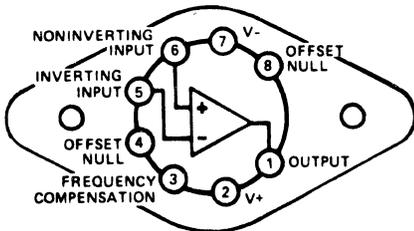
E088



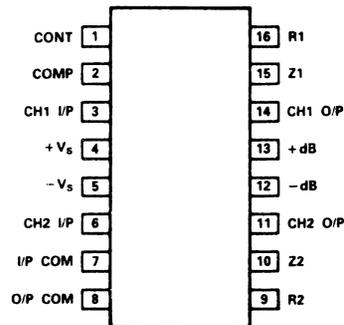
E101



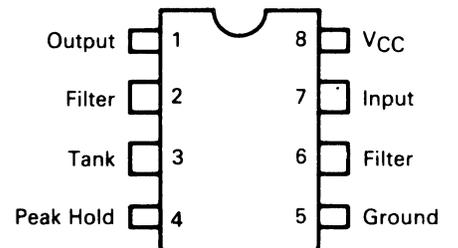
E102



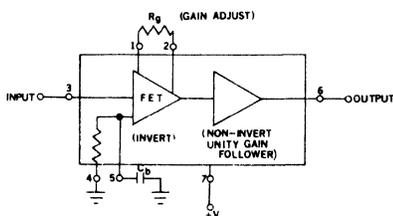
E104



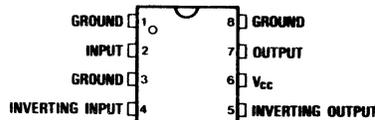
E105



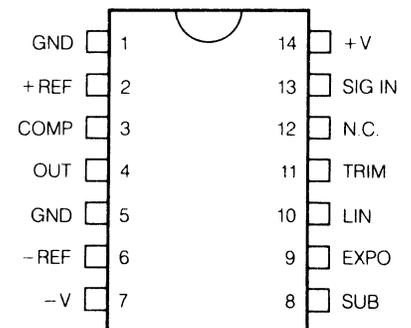
E106



E107



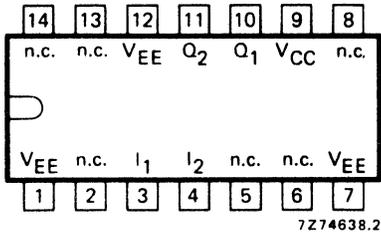
E108



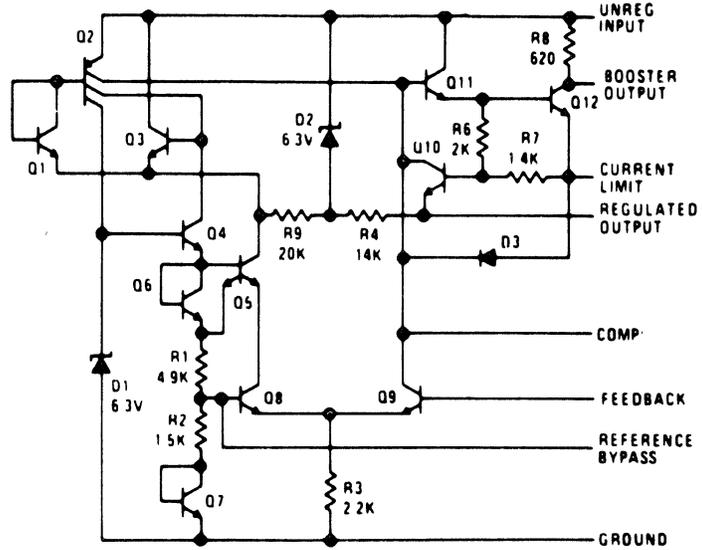
14. CIRCUIT DRAWINGS

E109 Wide-band Limiting Amplifier

Pins marked n.c. should preferably be grounded or connected to supply.
 V_{CC} via 75Ω to 5 V.
 $V_{EE} = 0$ V (ground).

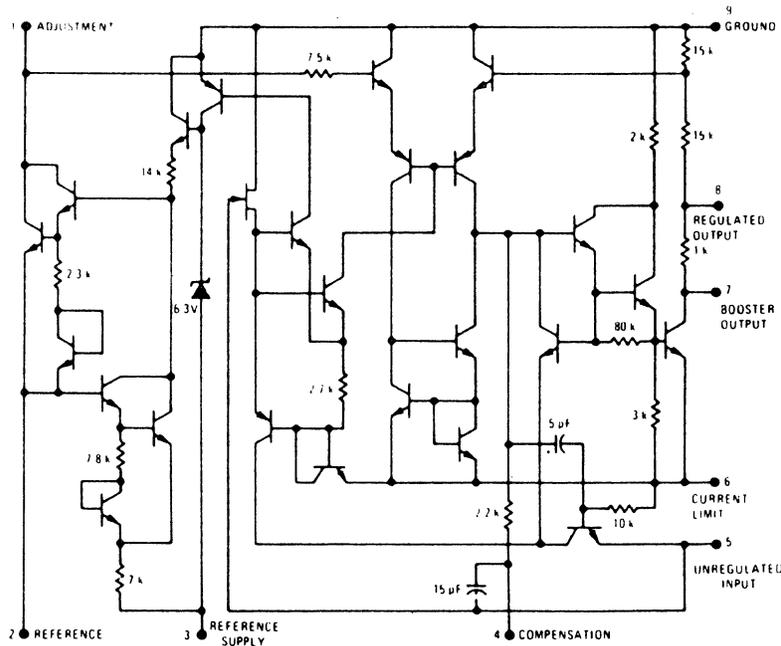


F001



	PKG	IN	BOOST	ELIM	OUT	COMP	PB	REF	QND
F001	CN1	3	2	1	8	7	6	5	4
	FD	3	2	9	8	7	6	5	4
	MP	4	3	12	11	10	8	7	8

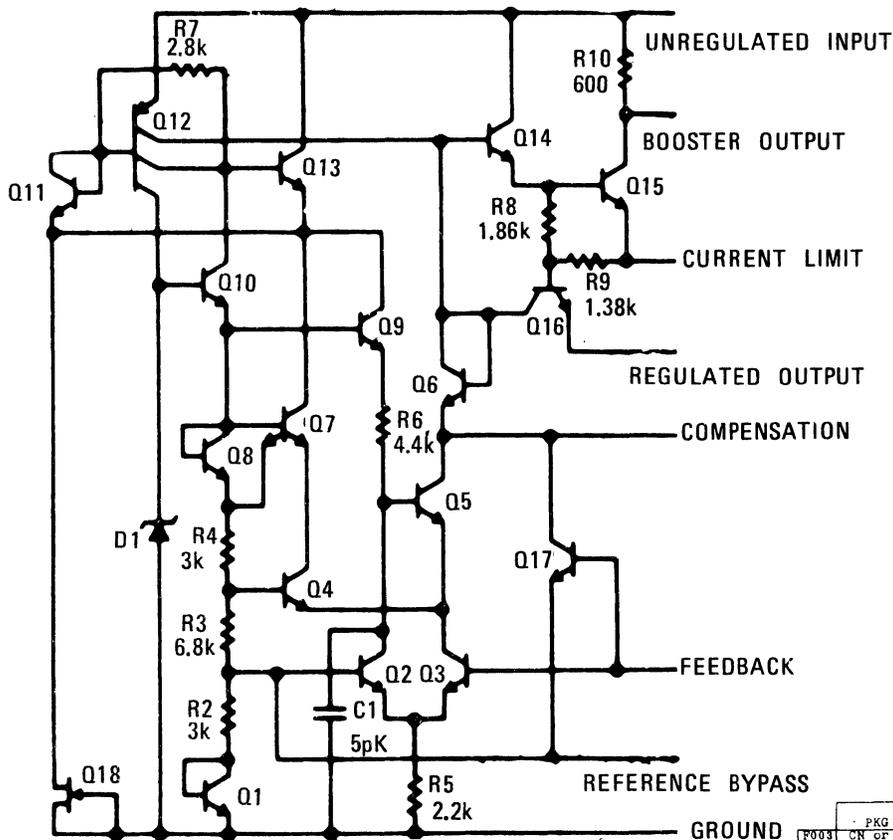
F002



	ADJ	REF	REF	COMP	UNREG	CURR	BOOSTER	REG	GROUND
F002	MP	2	3	5	6	9	10	11	12
	CN	1	2	3	4	5	6	7	8

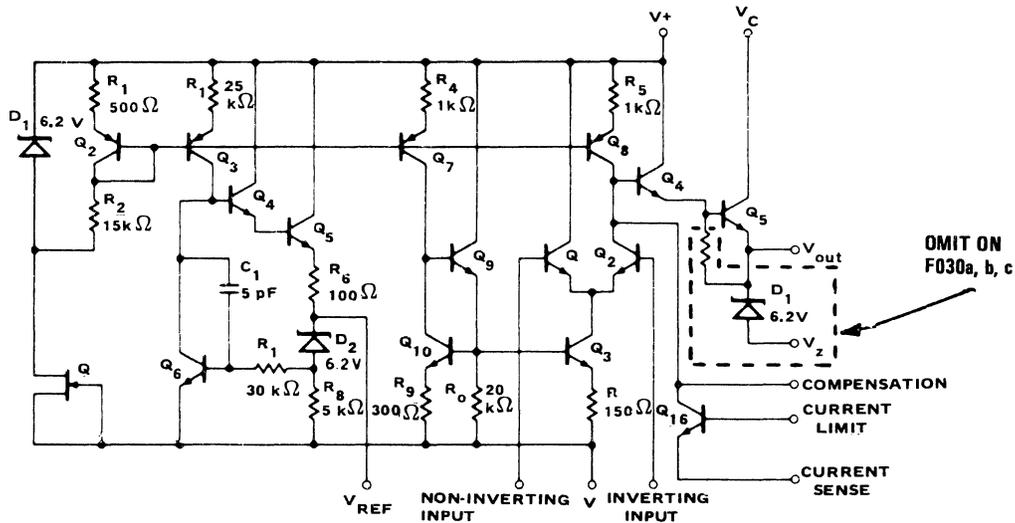
14. CIRCUIT DRAWINGS

F003



PKG	CN	OF	BOOST		ILIM	OUT	COMP	FB	REF	GND
			IN	OUT						
F003	3	2	1	8	7	6	5	4		
	3	2	9	8	7	6	5	4		
	4	3	12	11	10	8	7	5		

F030



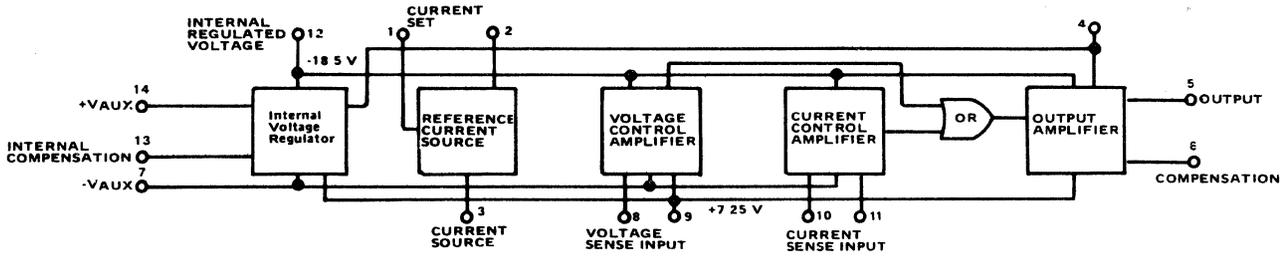
OMIT ON F030a, b, c

PKG	CURRENT SENSE	INV IN	NON INV IN	VREF	V-	VZ	VOLT	VC	V	FREQ COMP	CUR LIMIT	NC
F030, a	1	2	3	4	5*	6	7	8	9	10		
MF or TO116	3	4	5	6	7	13	12	11	10	9	2	1, 8, 14
PF	3	4	5	6	7	9	10	11	12	13	2	1, 8, 14
F030b	1	2	3	4	5	NA	6	7	8	9	10	NA
F030c	3	4	5	6	7	9	10	11	12	13	2	1, 8, 14
F030d	3	4	5	6	7	9	10	11	12	13	2	1, 14
MF or PF	1	2	3	4	5	6	7	8	9	10		

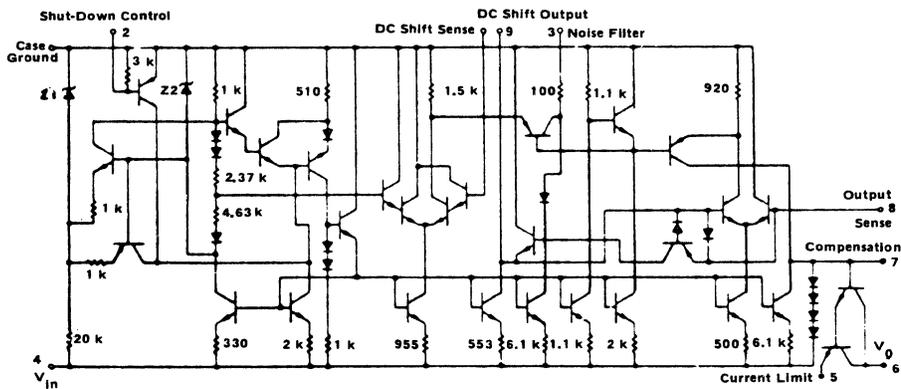
* - CONNECTED TO CASE

14. CIRCUIT DRAWINGS

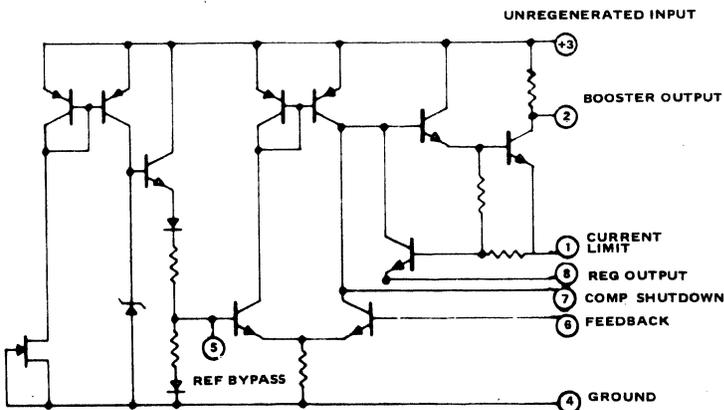
F043



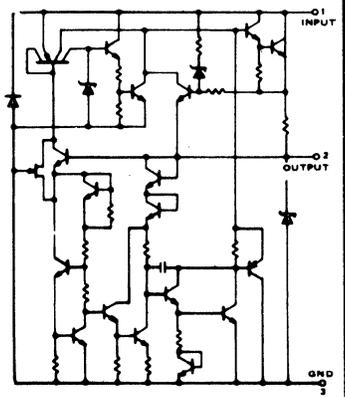
F064



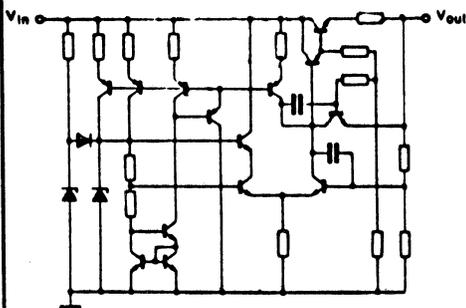
F070



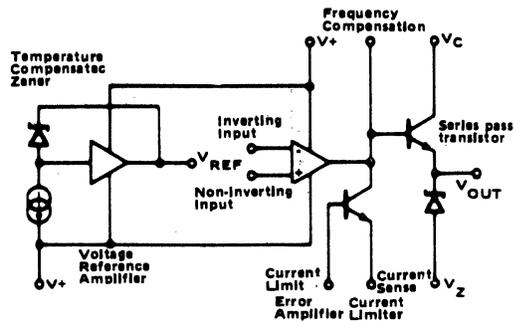
F077



F078



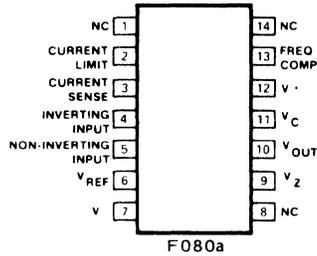
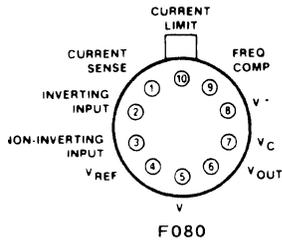
F079



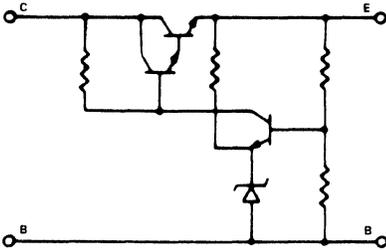
PK0	CUR LIMIT	CUR SENSE	INV INP	NON-INV INPUT	FREQ COMP	VOLT	V _Z	V _C	V ₋	V ₊	V _{REF}
F078C	FF, 10	FF, 1	FF, 3	FF, 4	FF, 5	FF, 6	FF, 7	FF, 8	FF, 9	FF, 10	FF, 11
F079C	FF, 10	FF, 1	FF, 3	FF, 4	FF, 5	FF, 6	FF, 7	FF, 8	FF, 9	FF, 10	FF, 11

14. CIRCUIT DRAWINGS

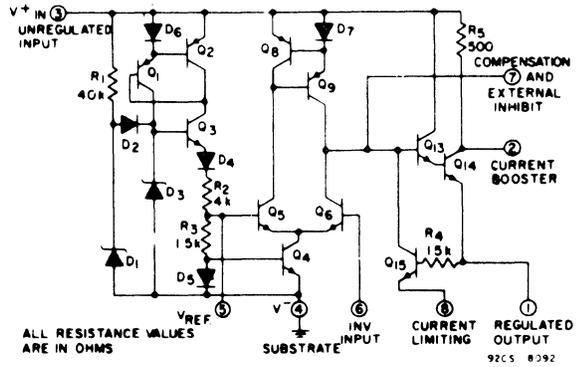
F080



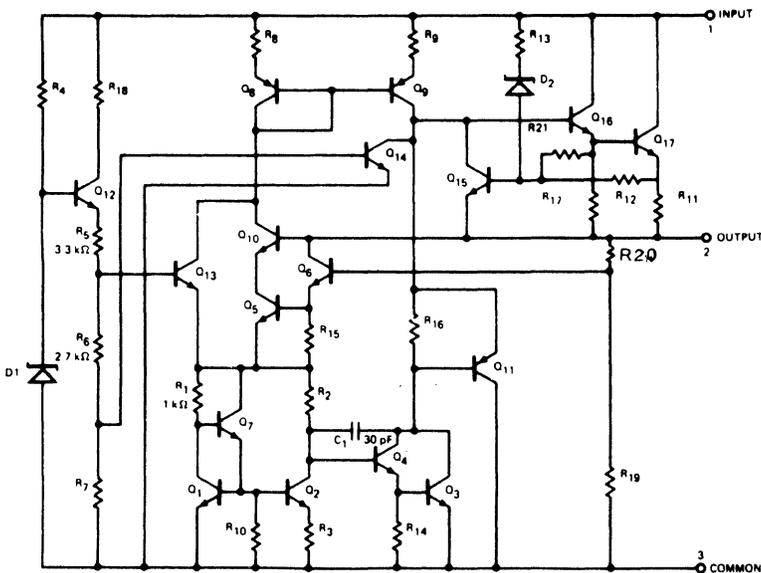
F082



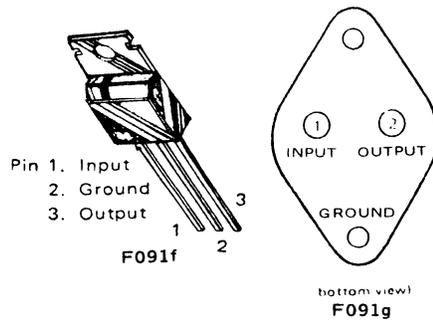
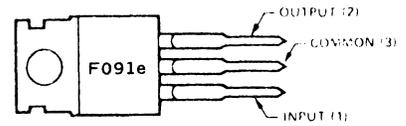
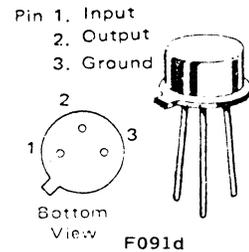
F088



F091



F091a: INCLUDES R21, EXCLUDES R20
F091b: INCLUDES R21, R20



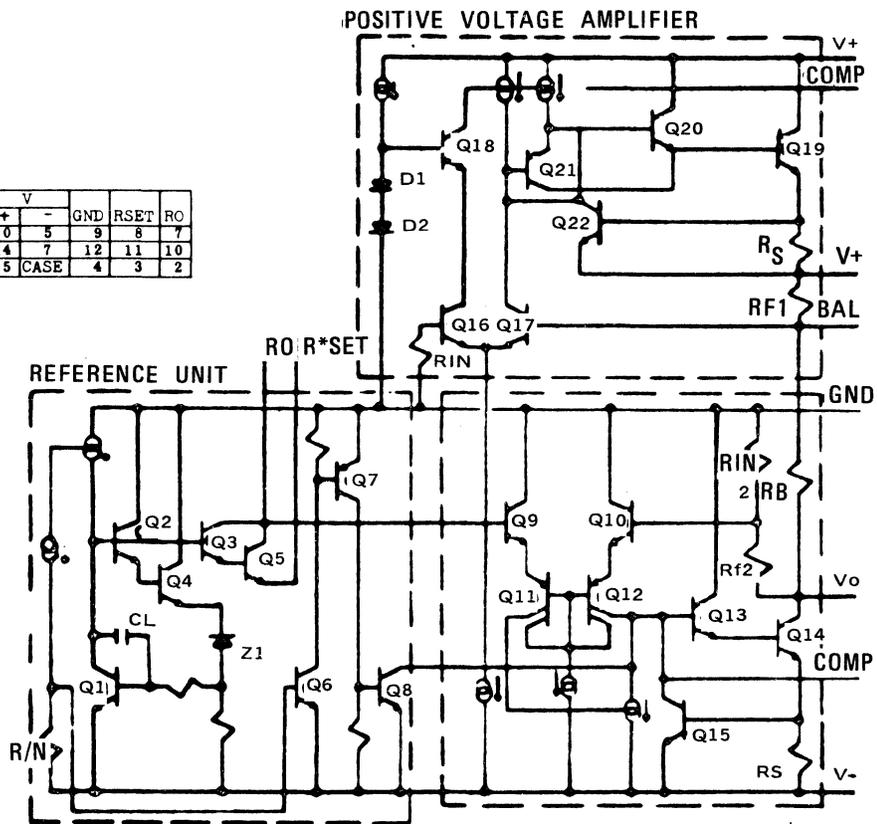
Pins 1 and 2 electrically isolated from case. Case is third electrical connection.

F091c: INCLUDES R20, EXCLUDES R21

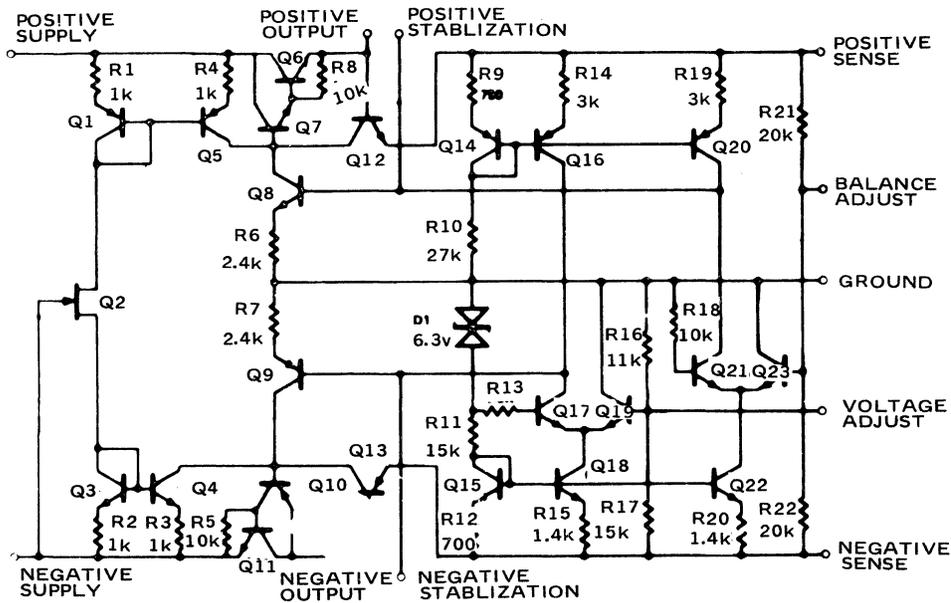
14. CIRCUIT DRAWINGS

F096

PKG	VO				COMP				BAL				V				GND	RSET	RO
	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-			
F096	1	6	2	4	3	10	5	9	8	7									
F096a	MP	1	8	3	5	4	14	7	12	11	10								
	CN	6	1	7	9	8	5	CASE	4	3	2								



F097

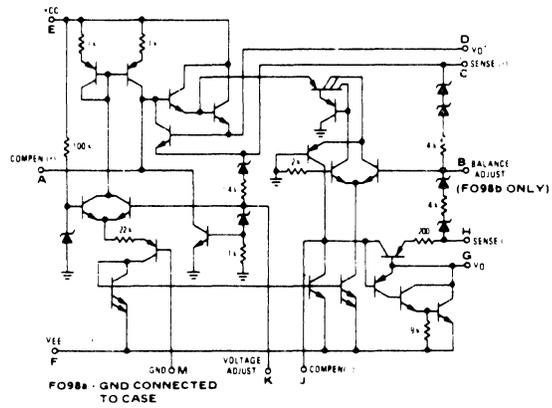


PKG	POS				NEG				VOL. ADJ.	BAL ADJ.	
	STAB	SENSE	OUT	V+	V-	STAB	SENSE	OUT			
F097	1	2	3	4	5	8	7	6	9	NA	
	MP or TO116	3	4	5	7	8	12	11	10	14	2

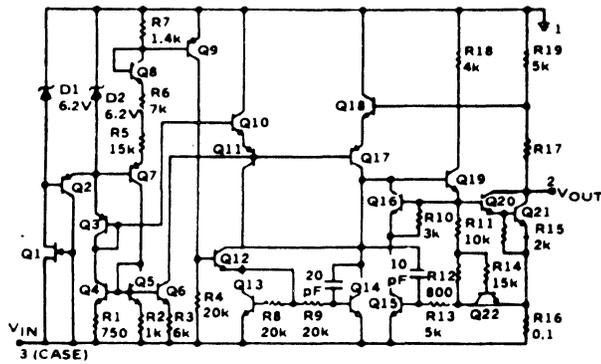
14. CIRCUIT DRAWINGS

F098

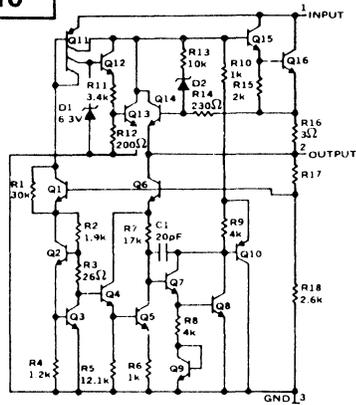
	A	B	C	D	E	F	G	H	J	K	M
F098	1	2	3	4	5	6	7	8	9	10	
F098a	1	2	3	4	5	6	7	8	9		
F098b	3	2	4	5	7	8	10	11	12	14	1



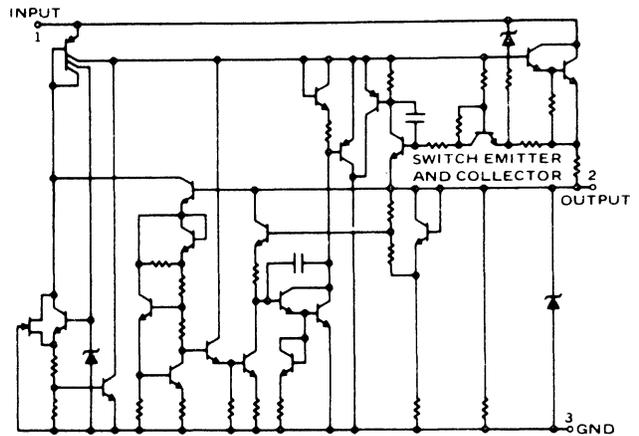
F109



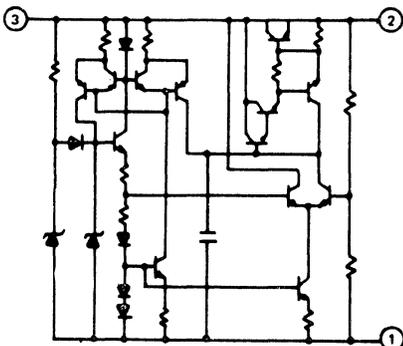
F110



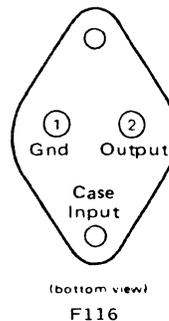
F111



F113



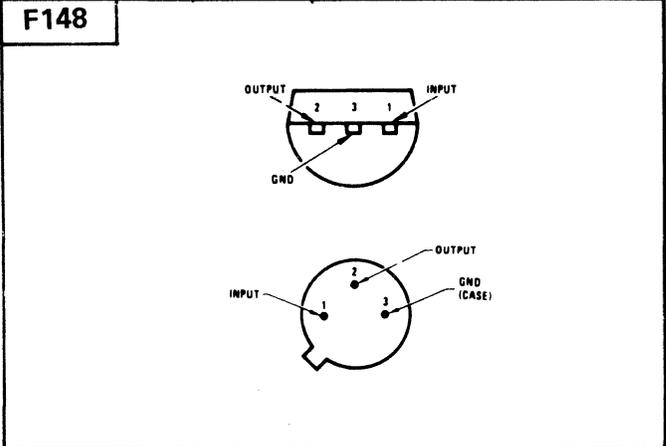
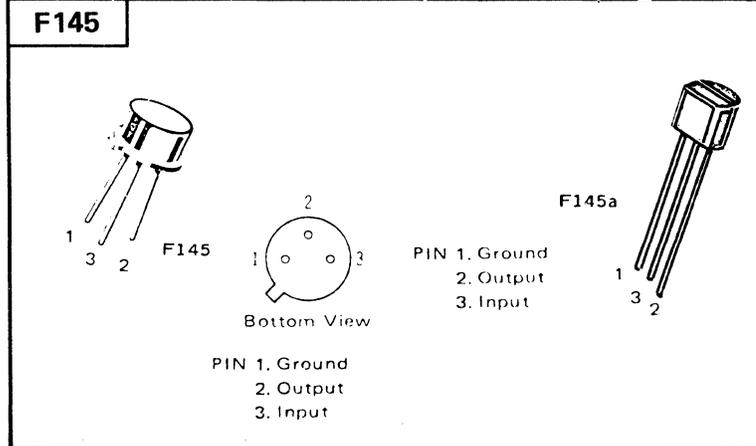
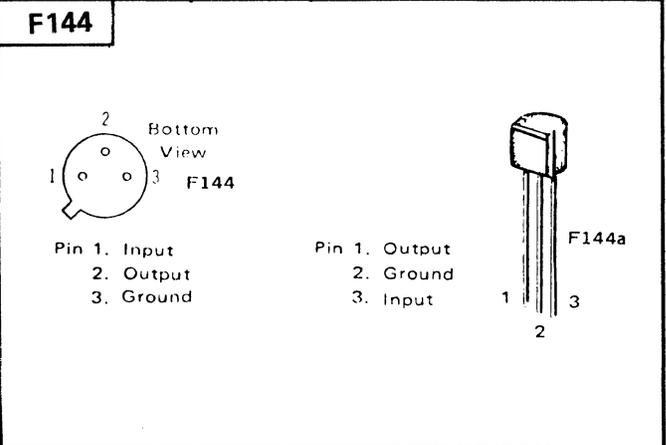
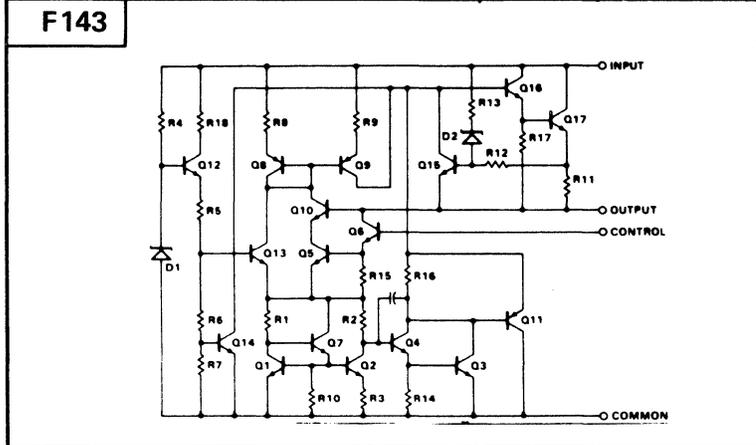
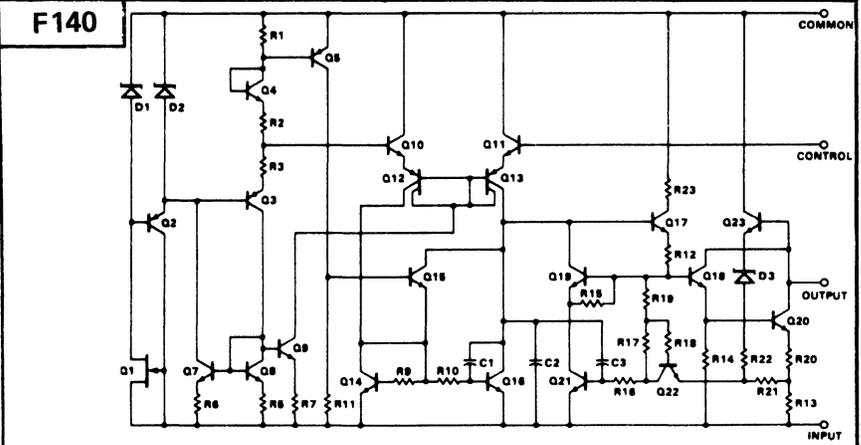
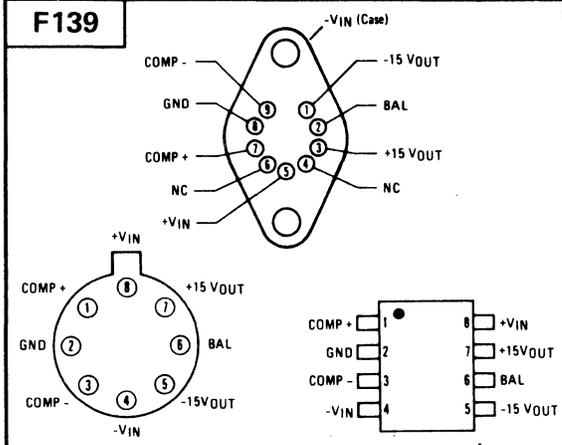
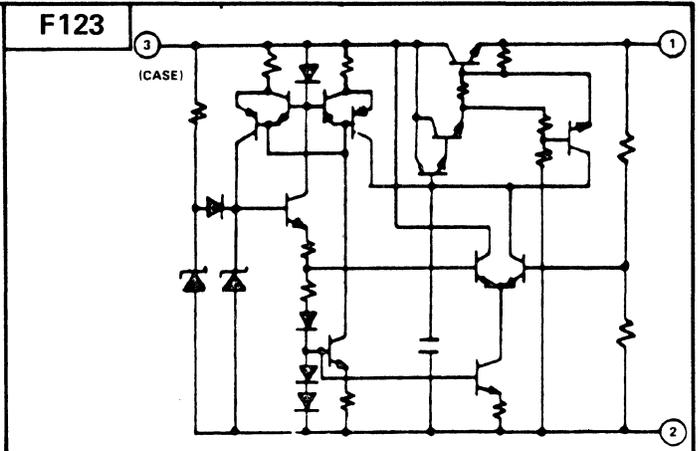
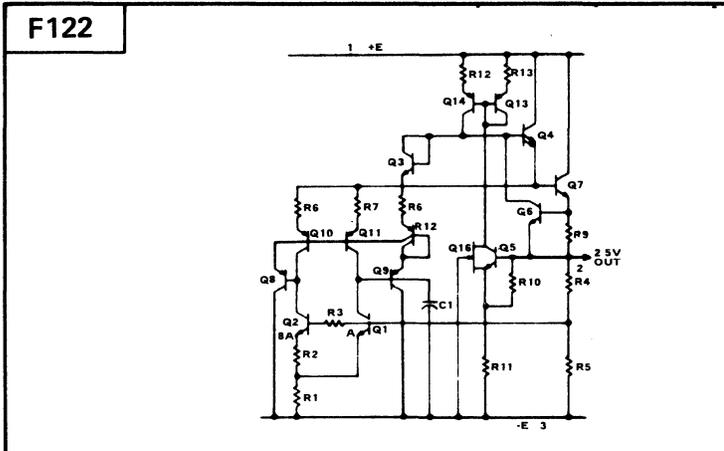
F116



Pin 1. Ground
2. Input
3. Output
F116a

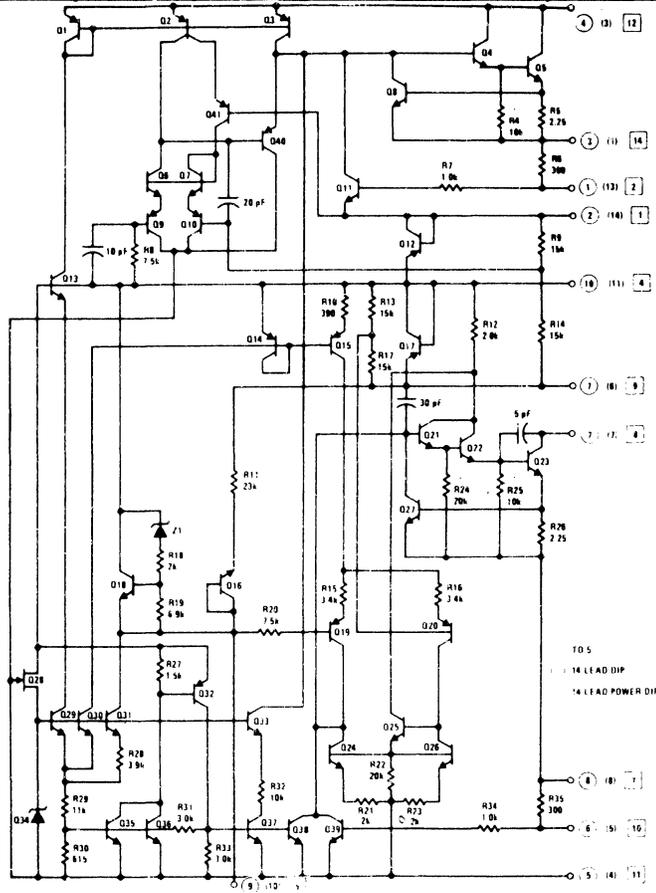


14. CIRCUIT DRAWINGS

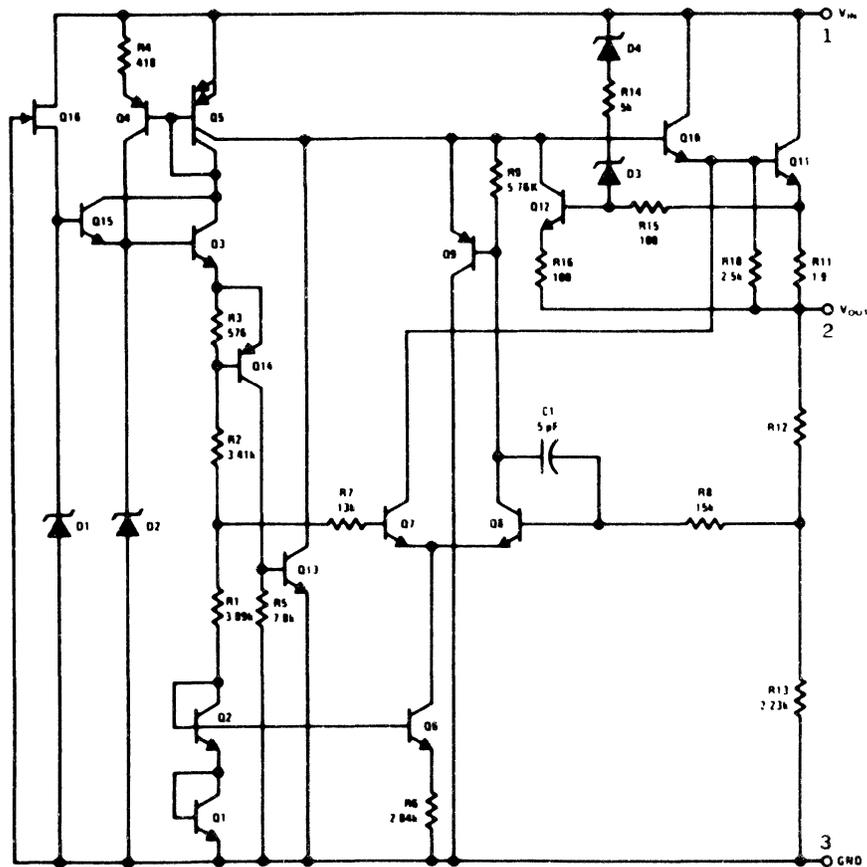


14. CIRCUIT DRAWINGS

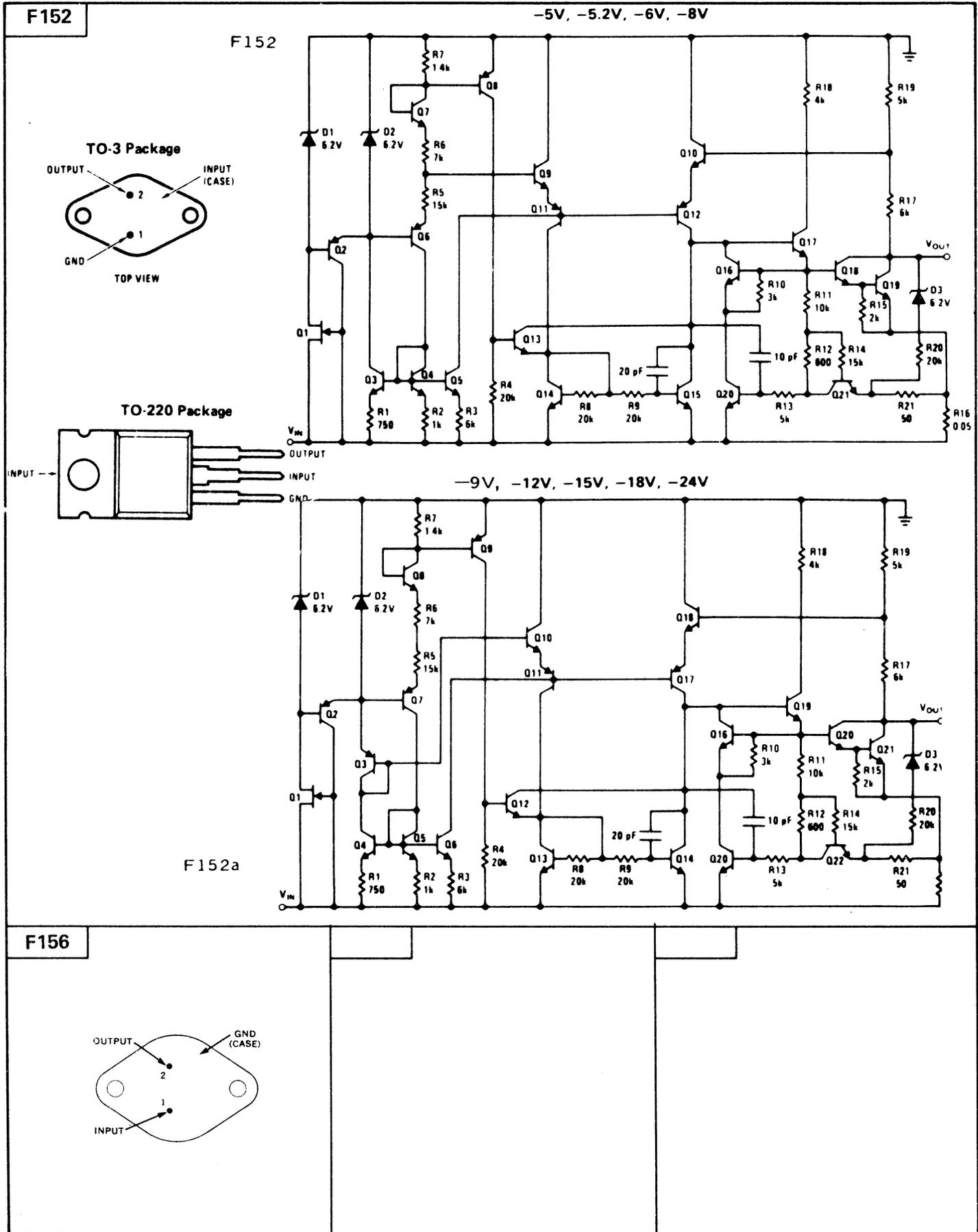
F149



F150

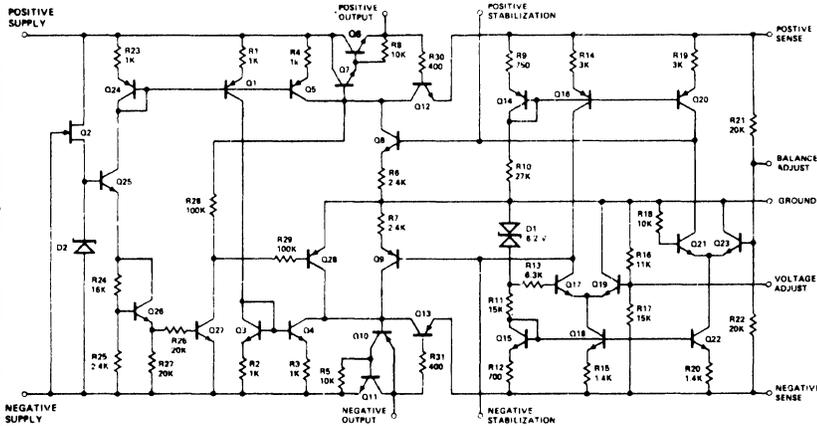


14. CIRCUIT DRAWINGS



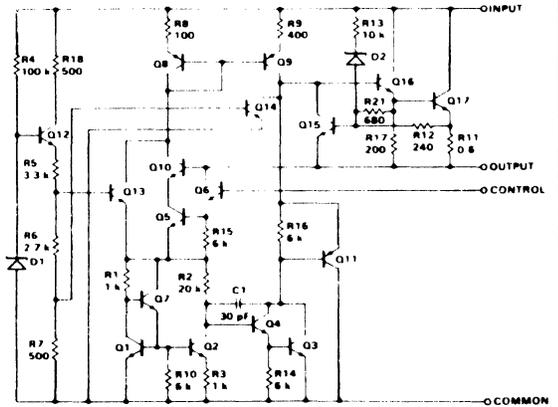
14. CIRCUIT DRAWINGS

F157

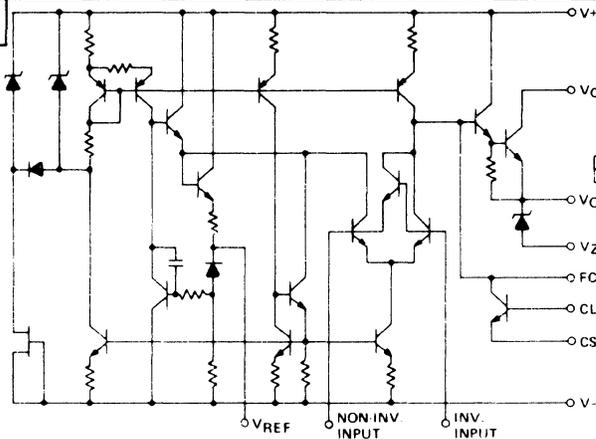


PKG	POS				NEG				VOLT		BAL	
	STAB	SENSE	OUT	V+	V-	STAB	SENSE	OUT	ADJ	ADJ	ADJ	ADJ
F157	ME	3	4	5	7	8	12	11	10	14	2	
TC100		1	2	3	4	5	8	7	6	9	NA	

F159

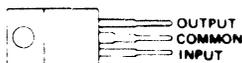


F160

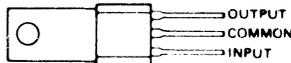


PKG	CURRENT SENSE	INV.	NON-INV.	V+	V-	V+	V-	V+	V-	FREQ. ZONE	CURRENT SENSE	N.O.
F160	ME	3	4	5	7	8	9	10	11	12	13	1, 8, 14
F160a	ME	1	2	3	4	5	6	7	8	9	10	NA

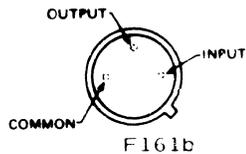
F161



F161

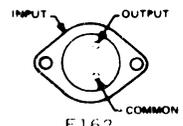


F161a



F161b

F162



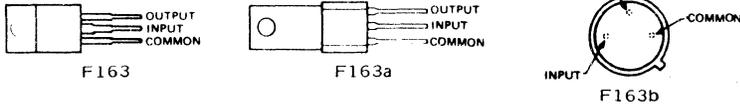
F162
TOP VIEW



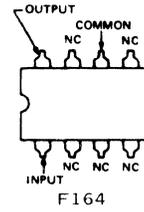
F162a
TOP VIEW

14. CIRCUIT DRAWINGS

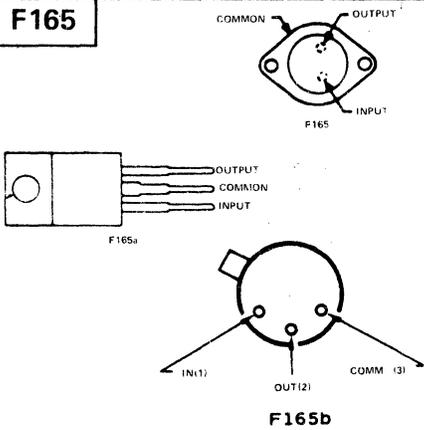
F163



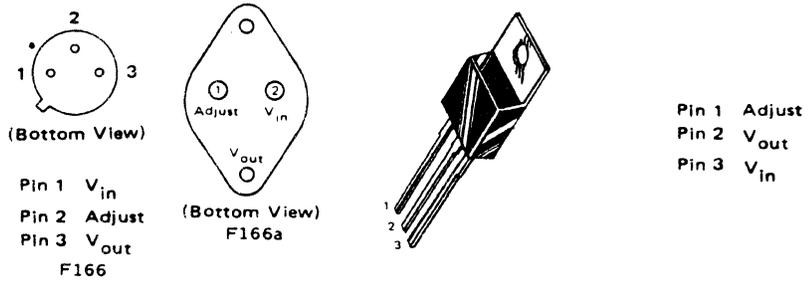
F164



F165

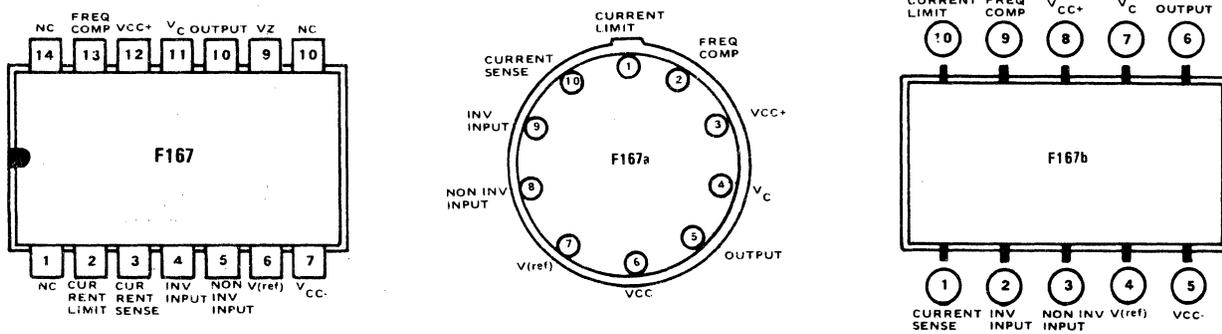


F166

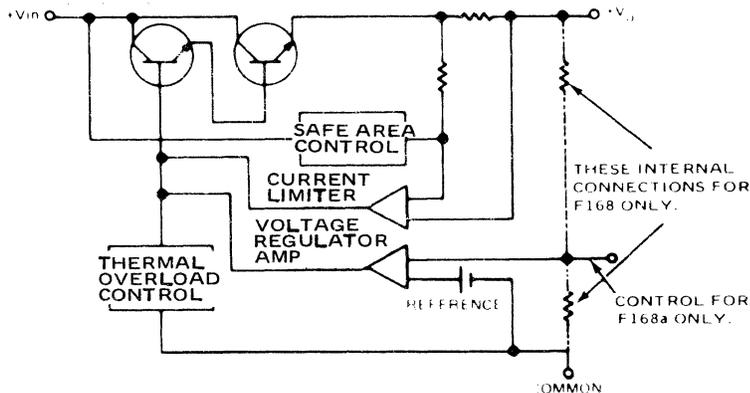


Heatsink surface connected to Pin 2
F166b

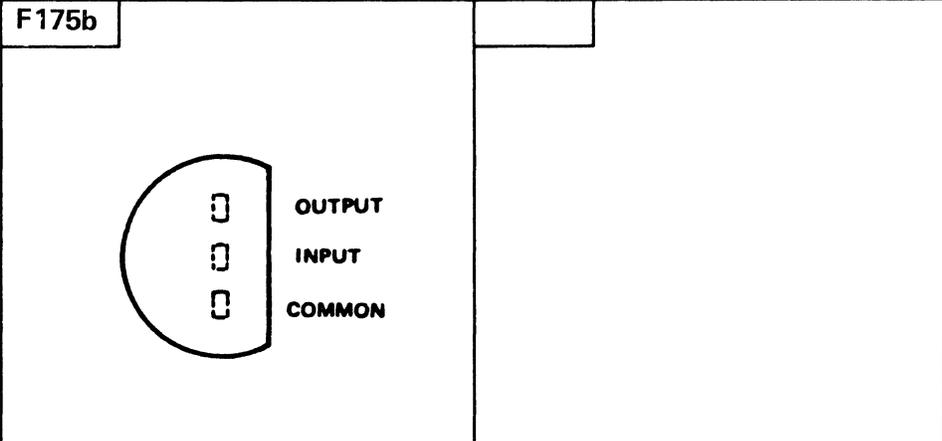
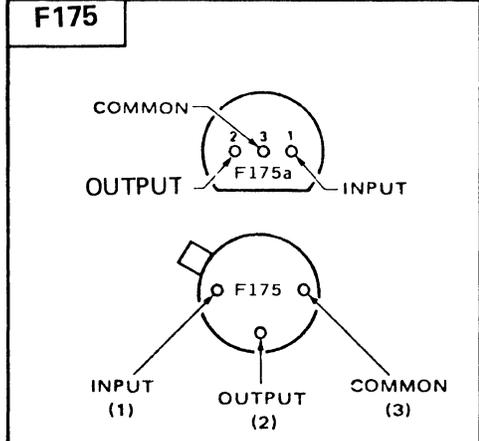
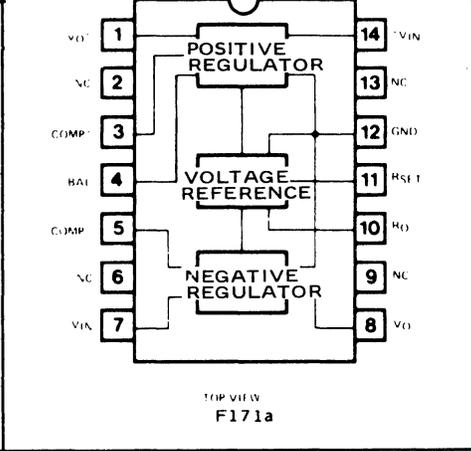
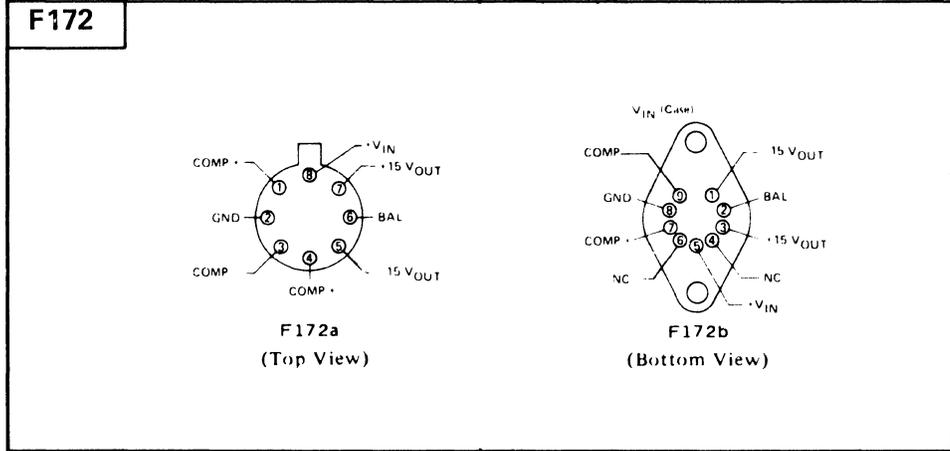
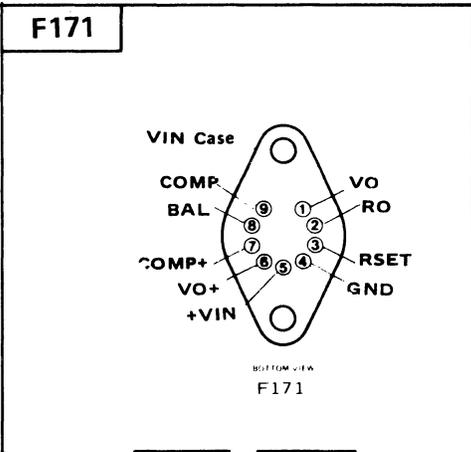
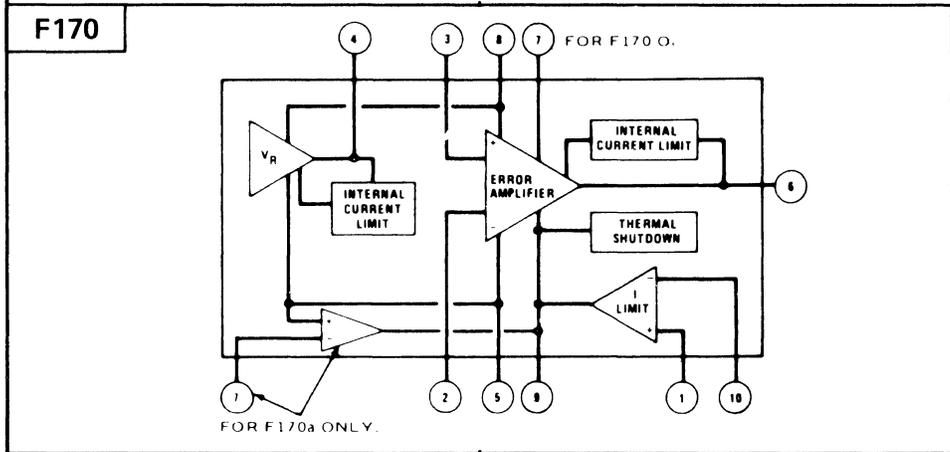
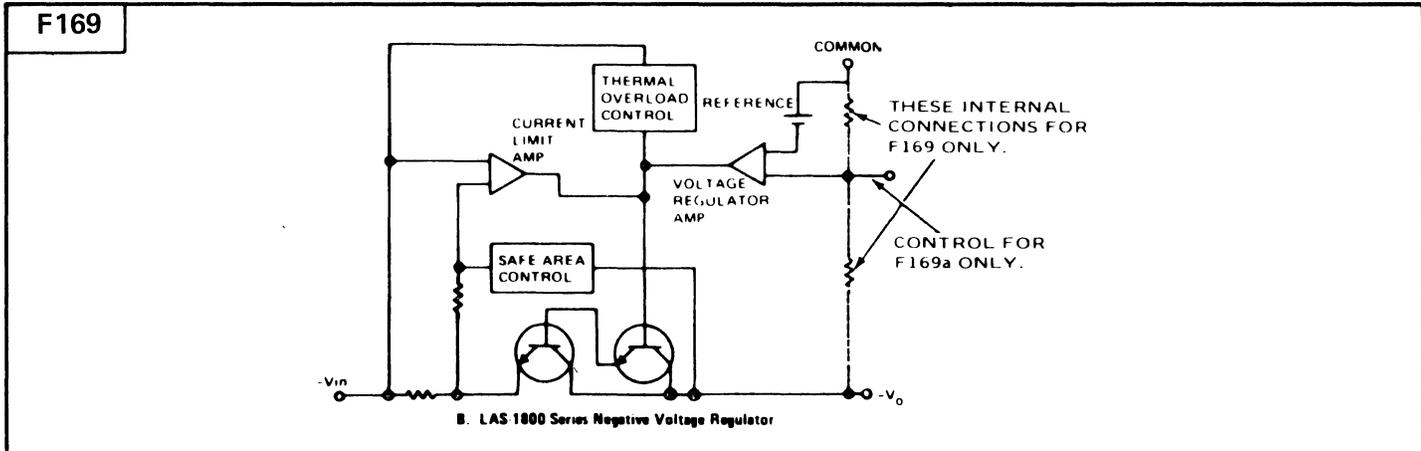
F167



F168



14. CIRCUIT DRAWINGS

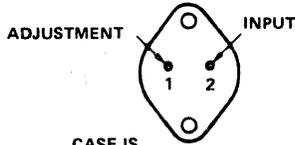


14. CIRCUIT DRAWINGS

F178



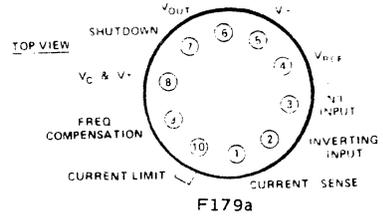
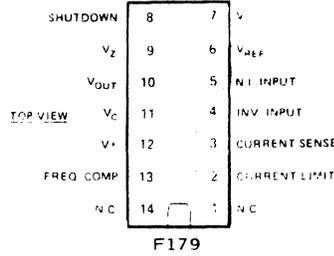
F178b



CASE IS OUTPUT

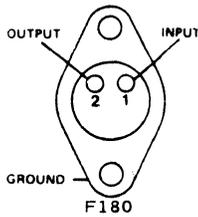
F178a
F178c

F179

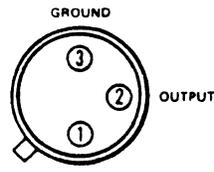


F179a

F180



F180



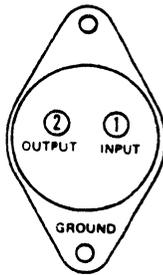
F180a

F182

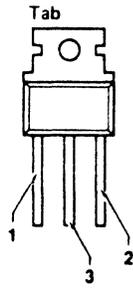
PIN	FUNCTION
1	Input
2	Output
3	Common

PIN	FUNCTION
1	Common (elec)
2	Control
3	Output
4	Input
5	Common

TOP VIEWS
(CASE IS INTERNALLY CONNECTED TO GROUND)



F180b

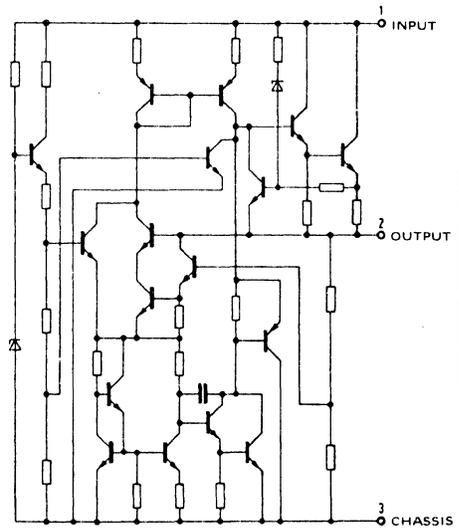


FRONT VIEW

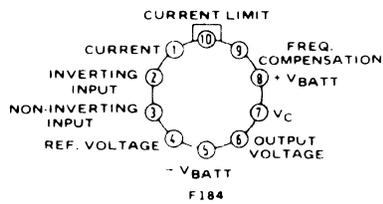
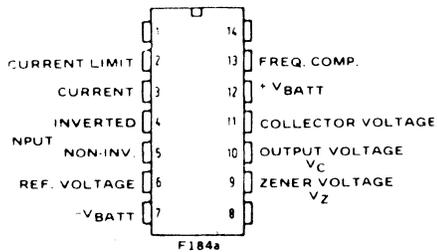
- 1 - Input
- 2 - Output
- 3 - Ground
- Tab - Ground

F180c

F183



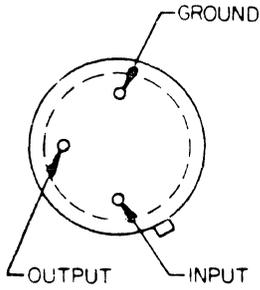
F184



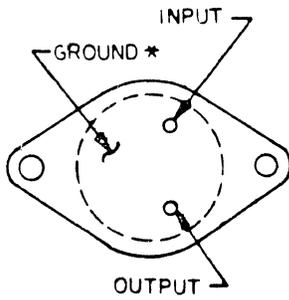
F184

14. CIRCUIT DRAWINGS

F186

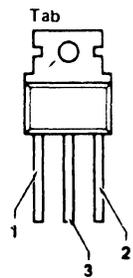


NOTE: Bottom views.
F186 & F186a



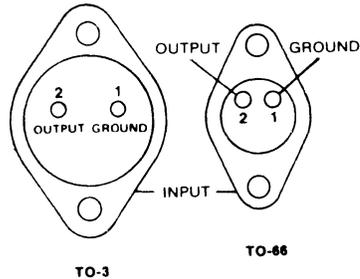
*(Case is connected to ground.)
F186b & F186c

F187



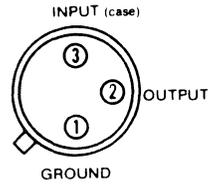
**TO-220
FRONT VIEW**

- 1 - Ground
- 2 - Output
- 3 - Input
- Tab - Input



TO-3

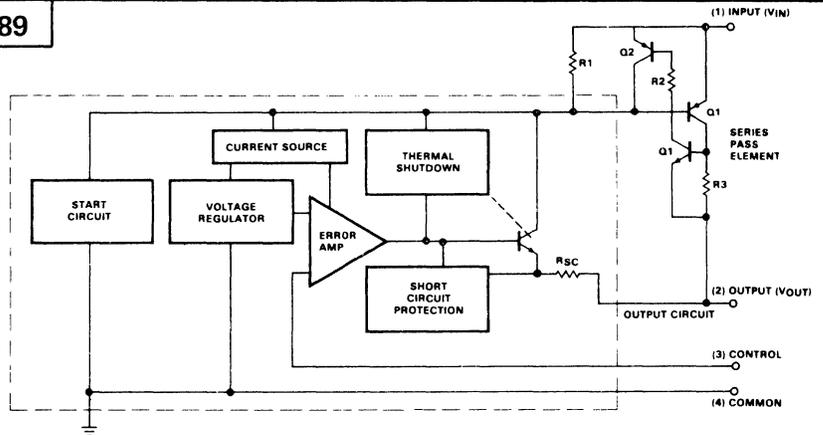
TO-66



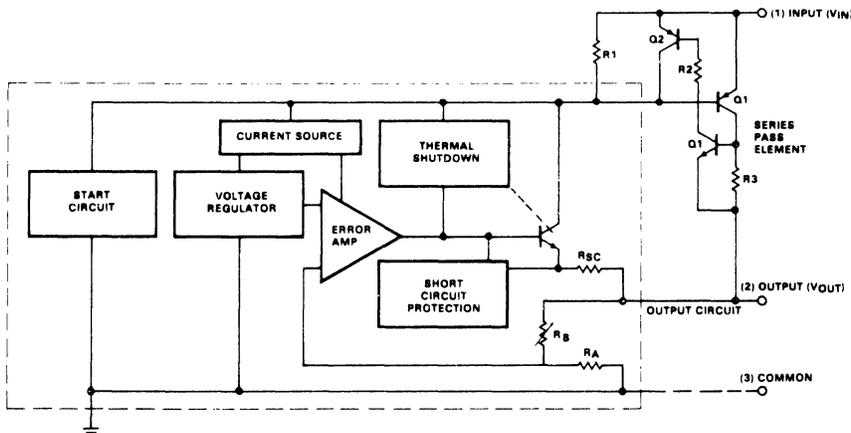
TO-39

TOP VIEWS

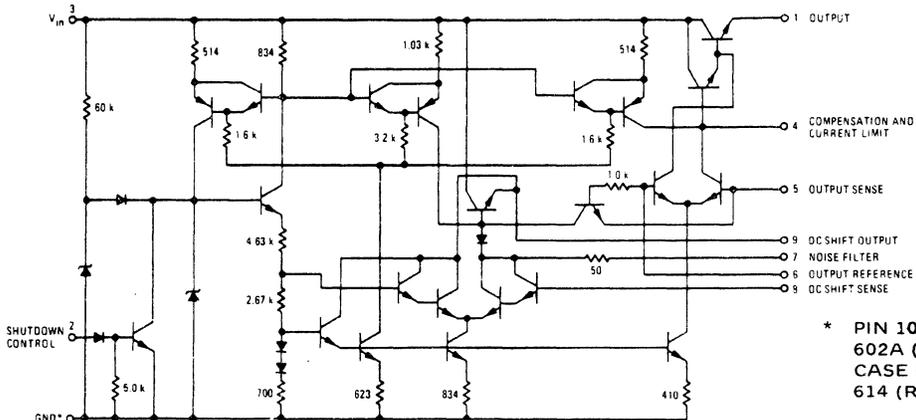
F189



F190



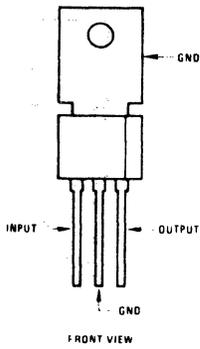
F193



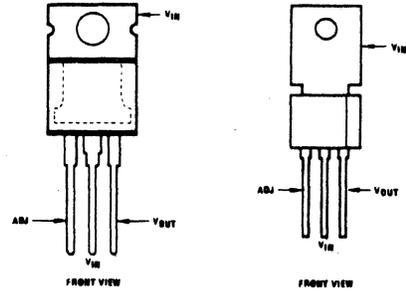
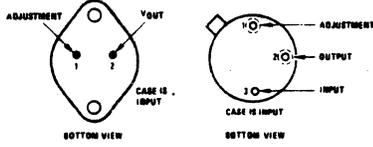
* PIN 10 GROUND FOR CASE 602A (G SUFFIX).
CASE IS GROUND FOR CASE 614 (R SUFFIX).

14. CIRCUIT DRAWINGS

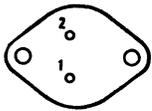
F194



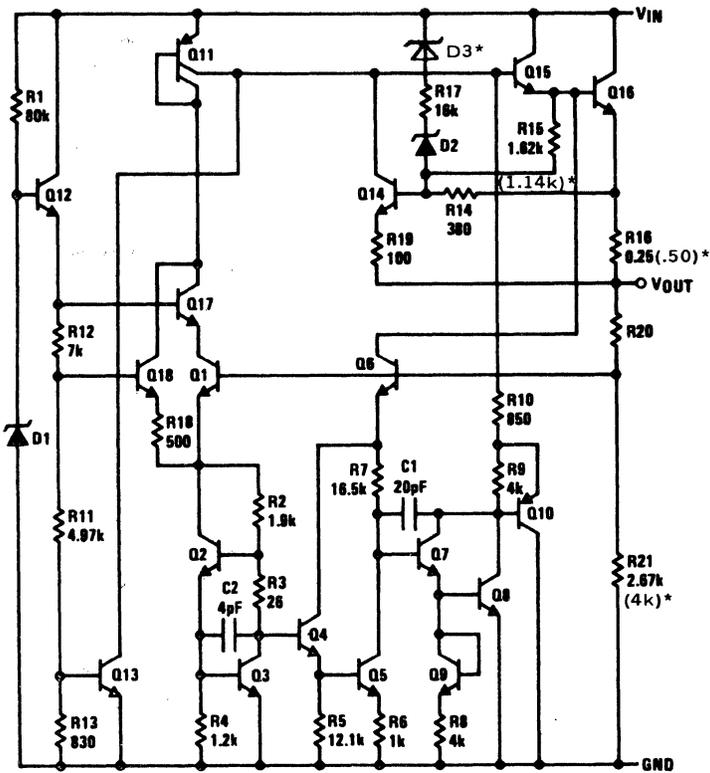
F198



F199

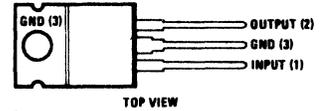


BOTTOM VIEW
Pin 1 - input
Pin 2 - output
Case - ground

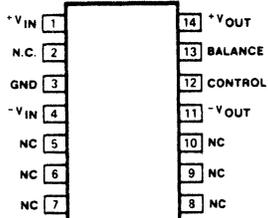


* COMPONENTS MARKED WITH AN ASTERISK APPLY FOR F199a ONLY.

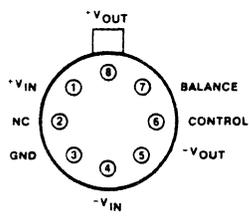
F199a



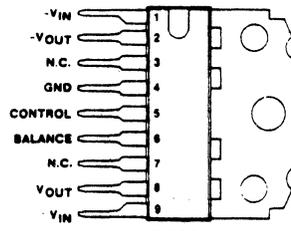
F200



F200



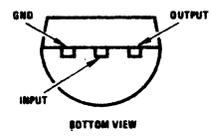
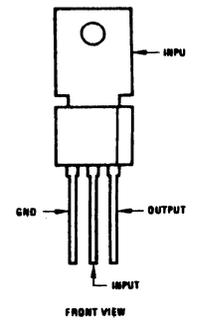
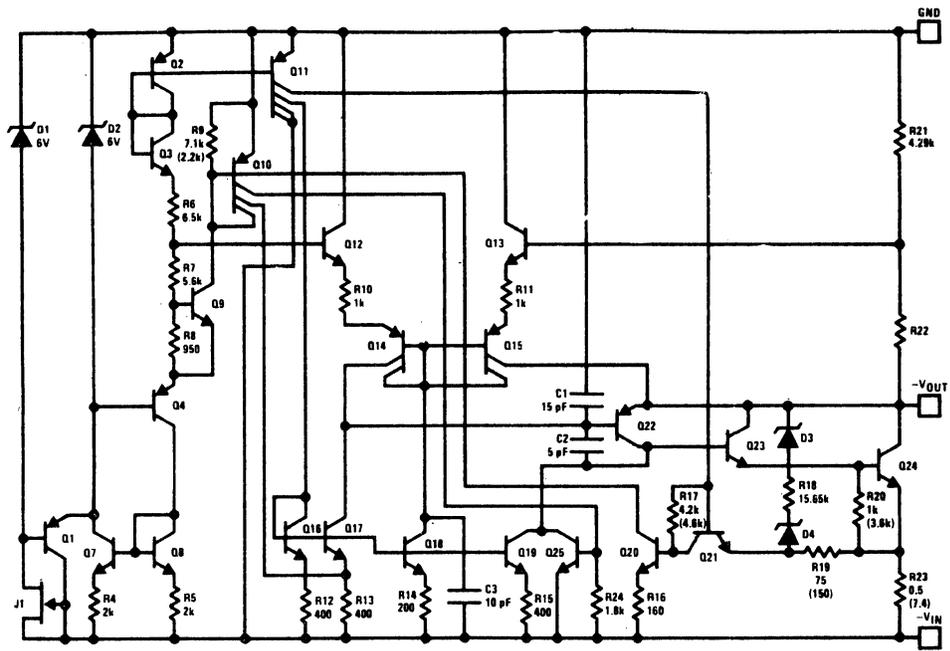
F200a



F200b

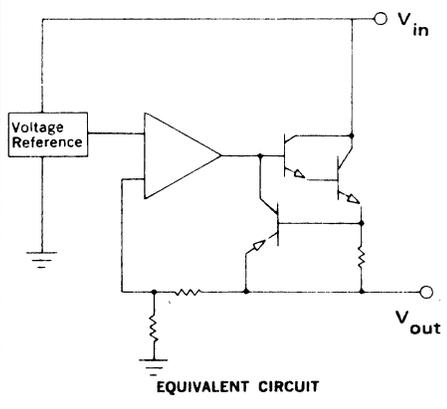
14. CIRCUIT DRAWINGS

F201



-5V through -24V
F201a

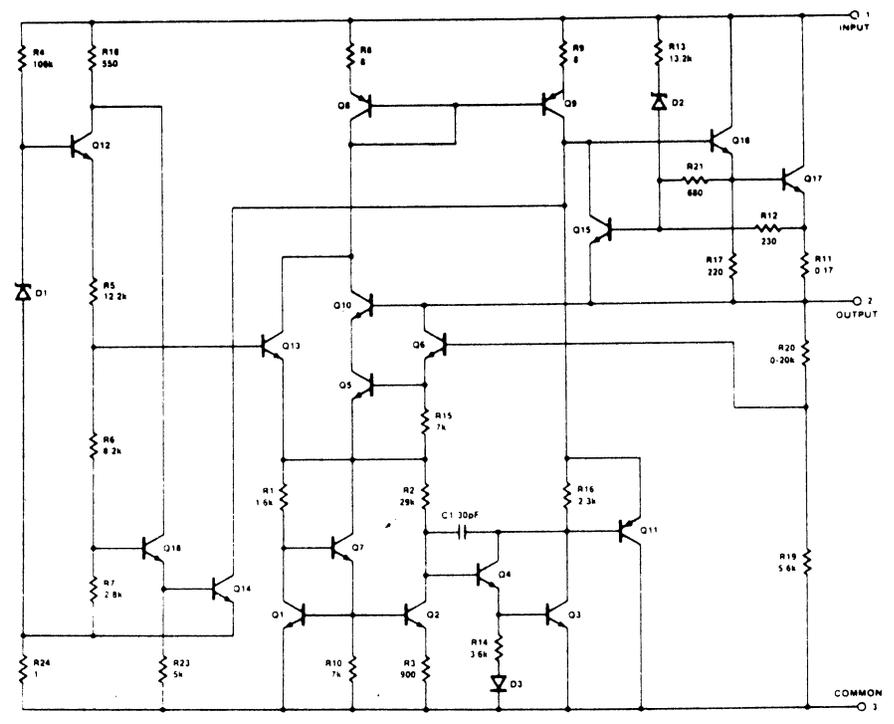
F206



EQUIVALENT CIRCUIT

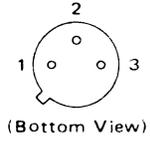
Case = V in Pin 2 = V out Pin 1 = ground

F207



14. CIRCUIT DRAWINGS

F208



(Case is output)



Pin 1 V_{in}
Pin 2 Adjust
Pin 3 V_{out}

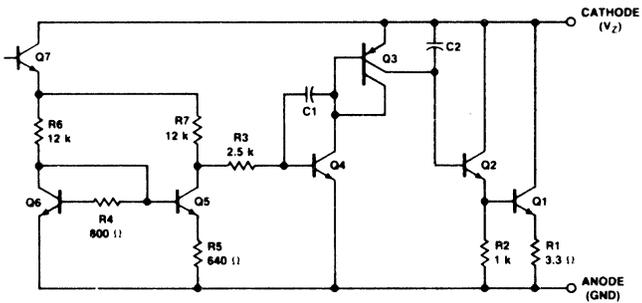
F208

Pin 1 Adjust
Pin 2 V_{out}
Pin 3 V_{in}

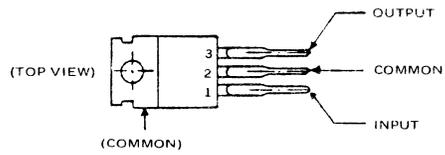
F208a



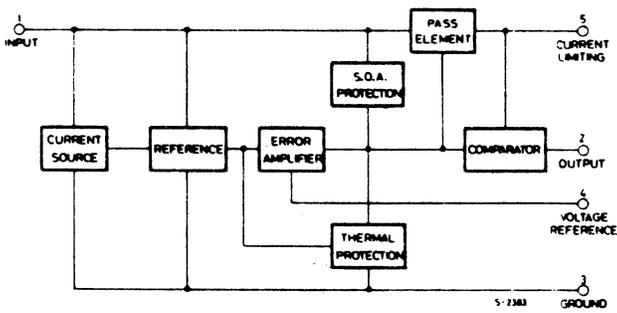
F212



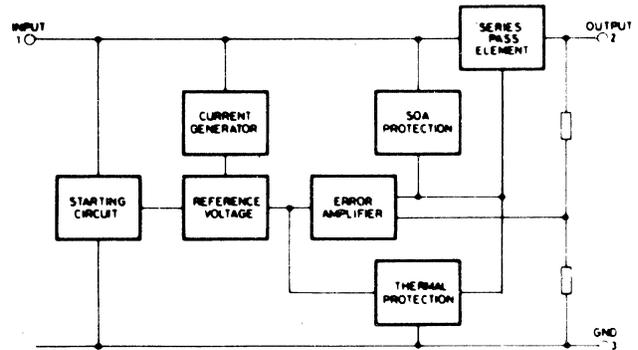
F215



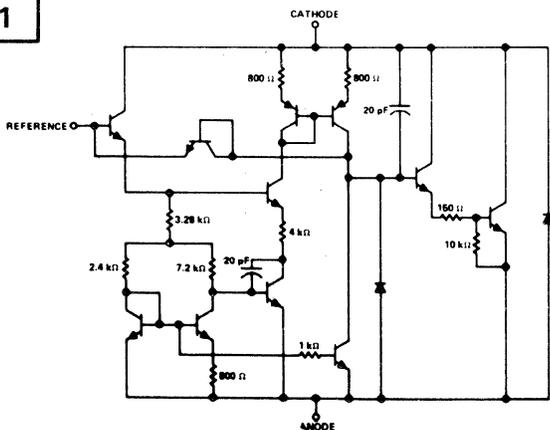
F219



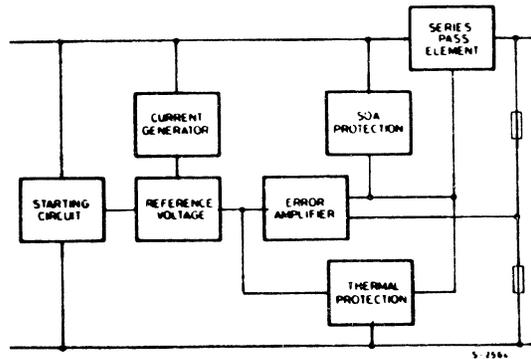
F220



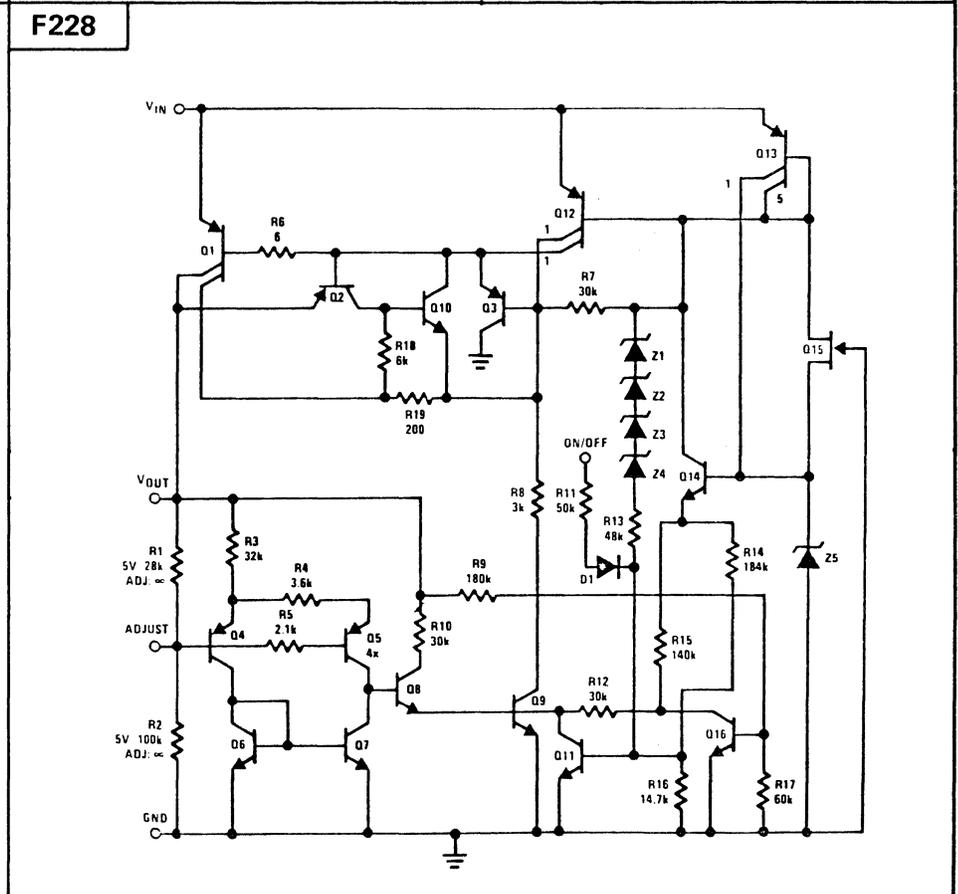
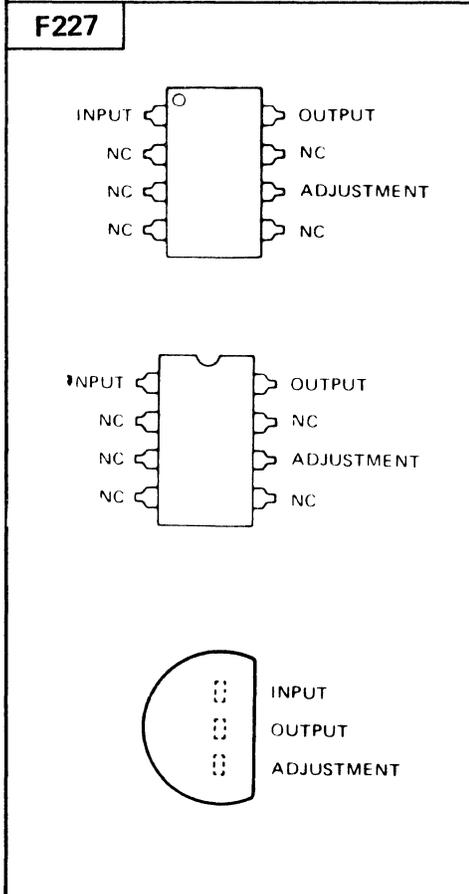
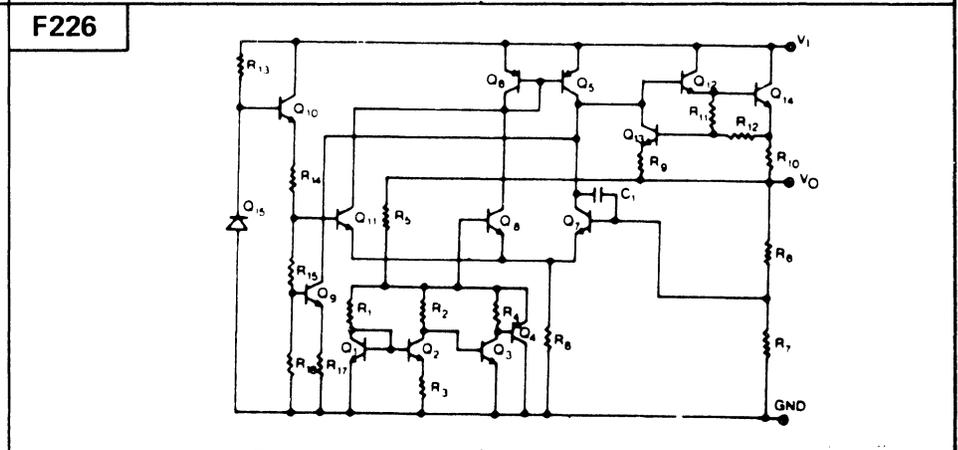
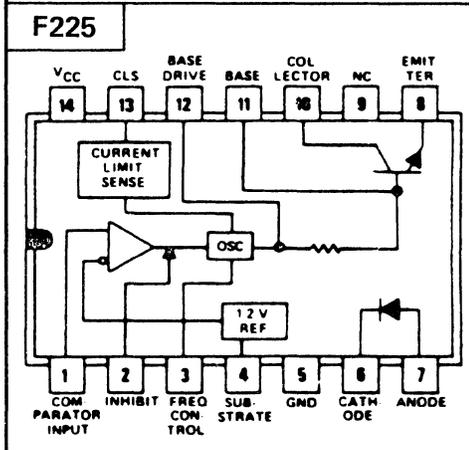
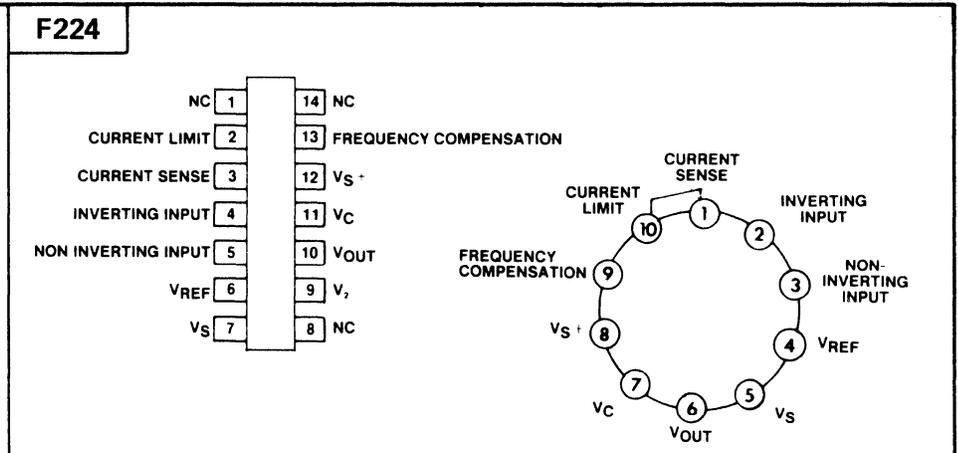
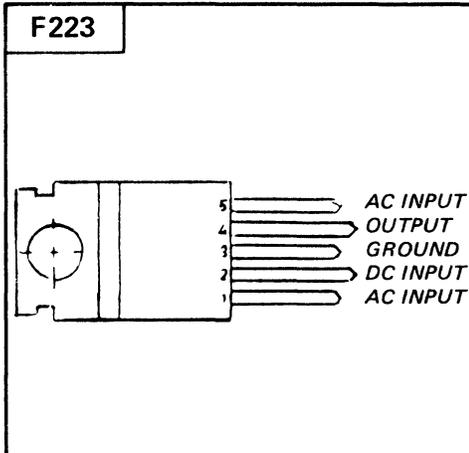
F221



F222

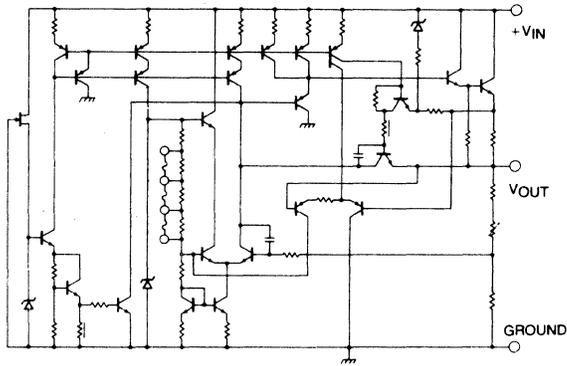


14. CIRCUIT DRAWINGS

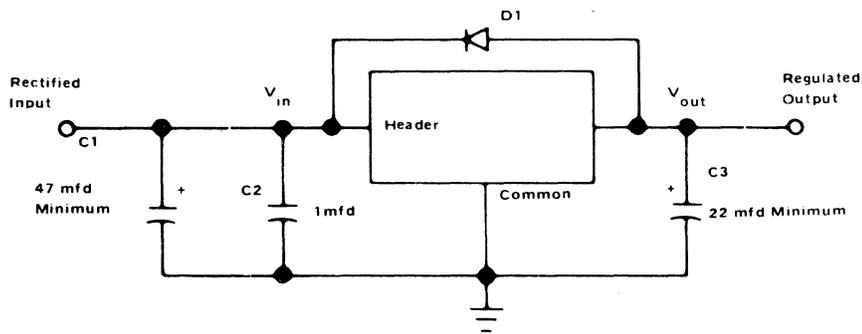


14. CIRCUIT DRAWINGS

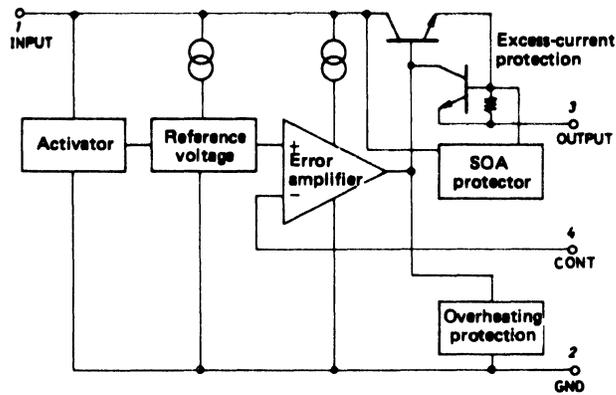
F229



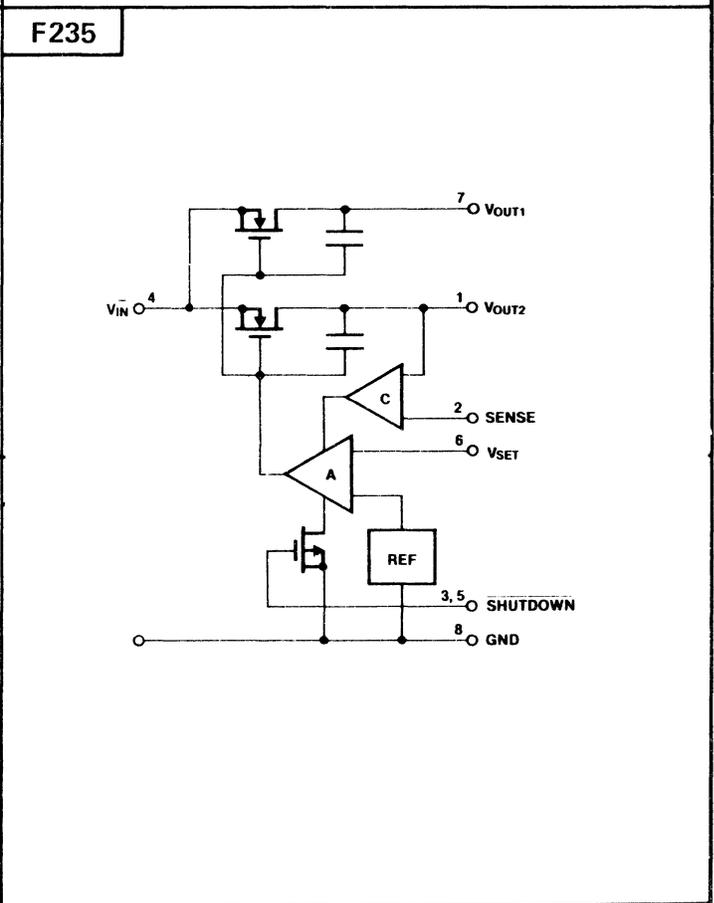
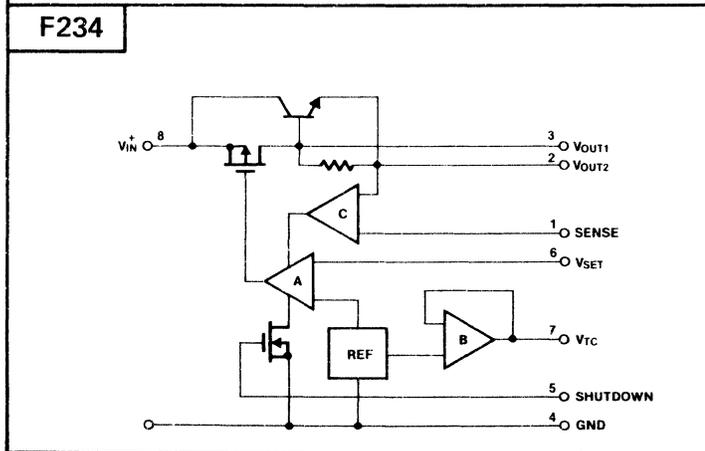
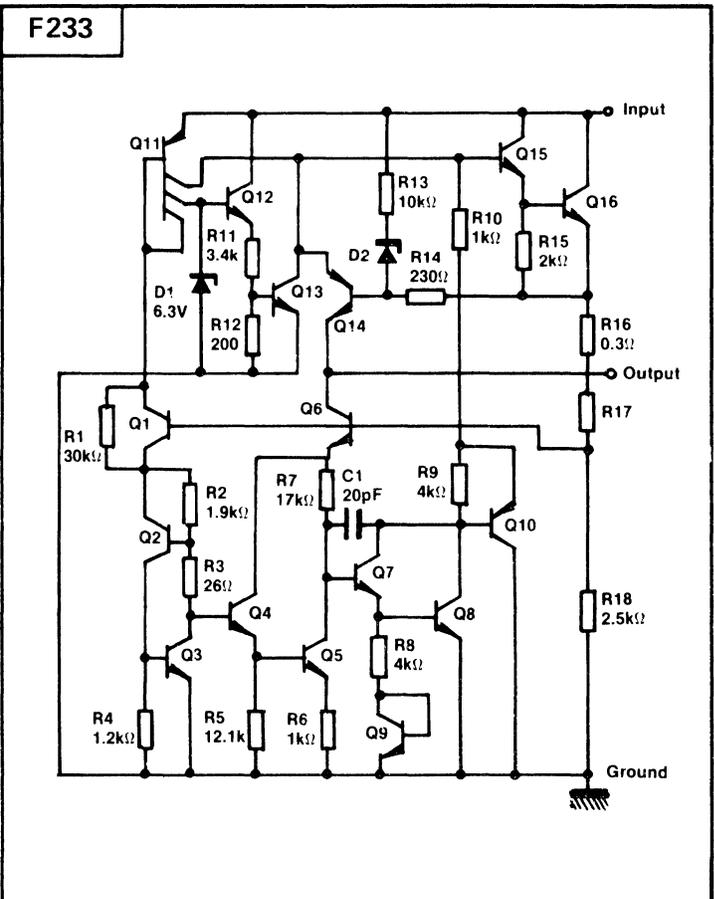
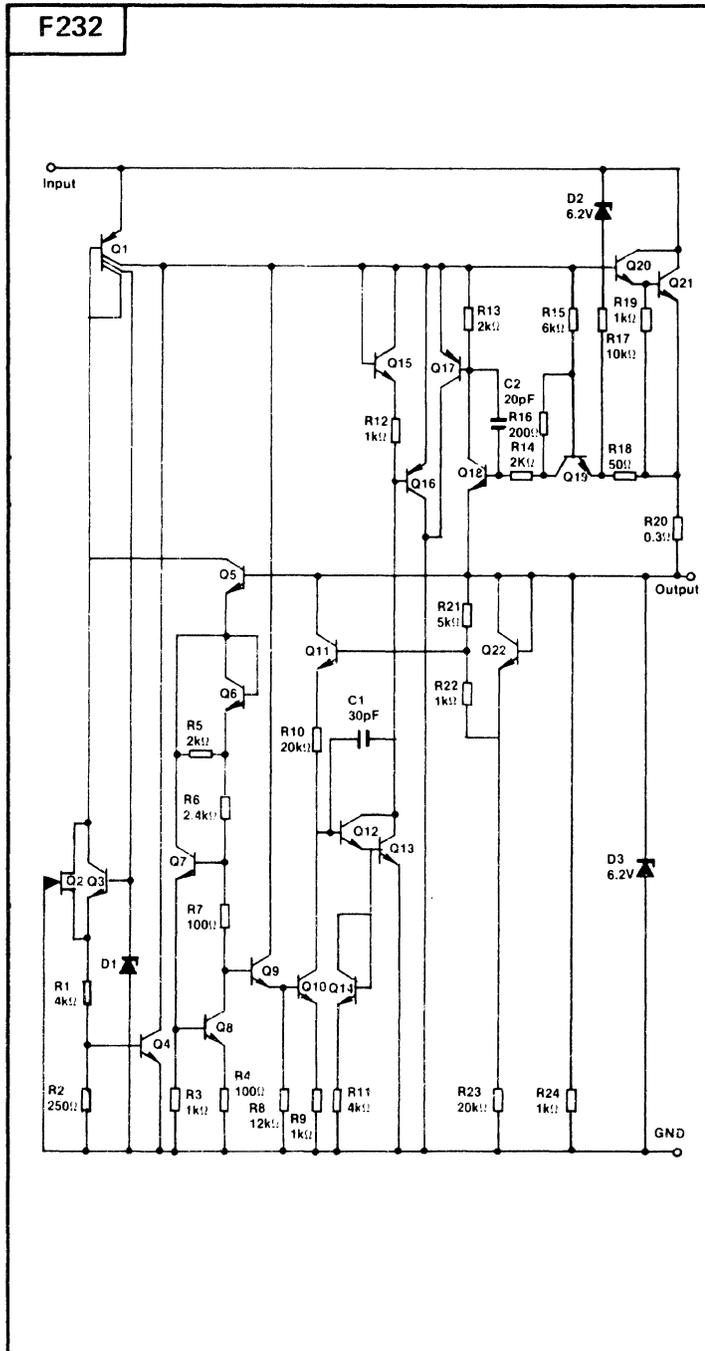
F230



F231

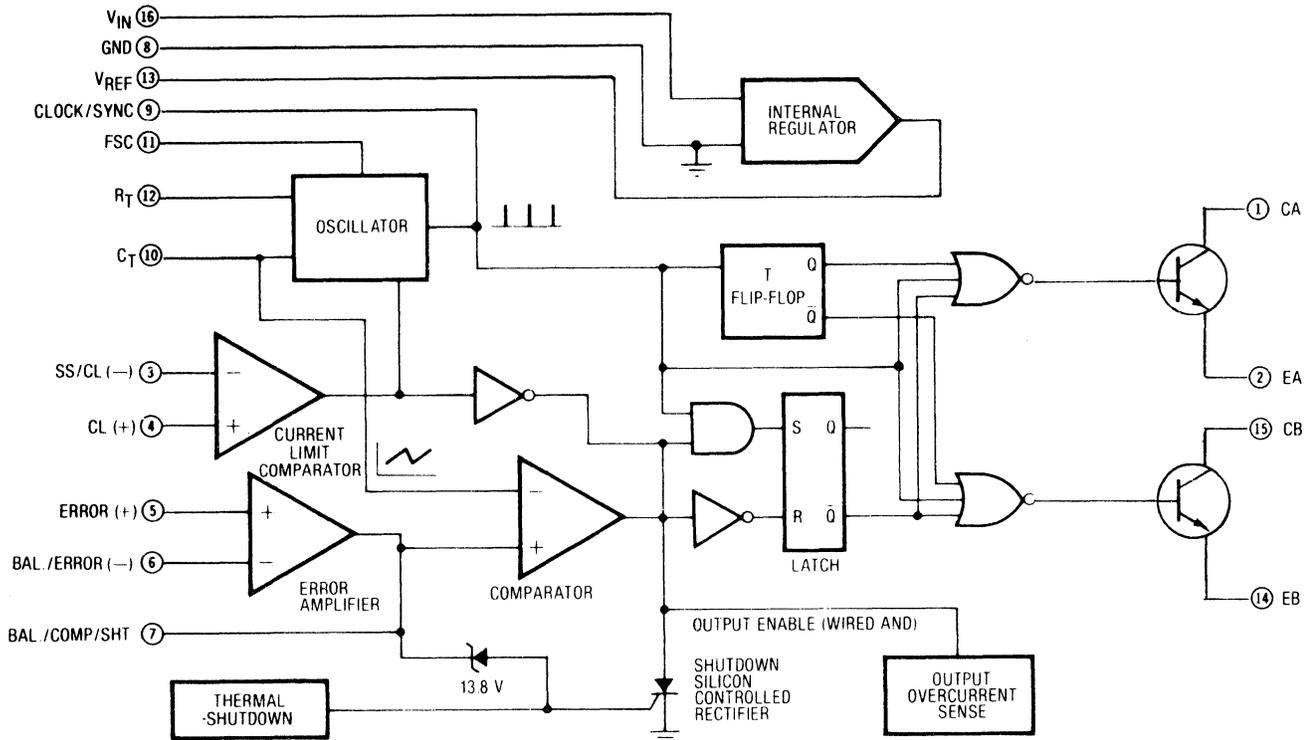


14. CIRCUIT DRAWINGS

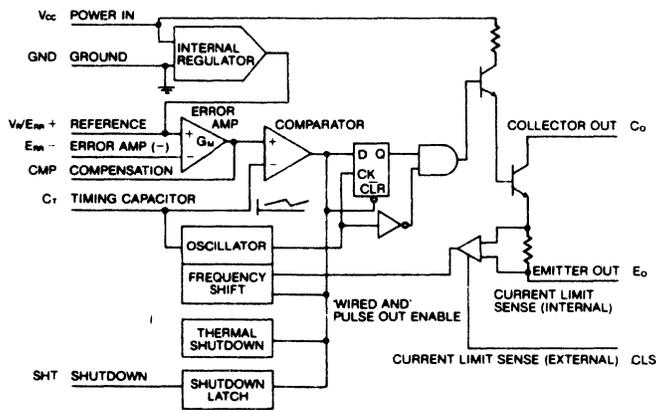


14. CIRCUIT DRAWINGS

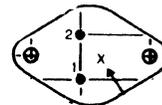
F236



F237



F238



PIN	FUNCTION
1	ADJUSTMENT
2	V_{IN}
CASE	OUTPUT

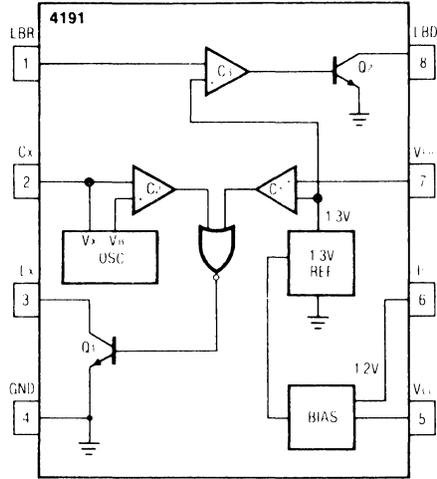
F239

PIN CONNECTIONS

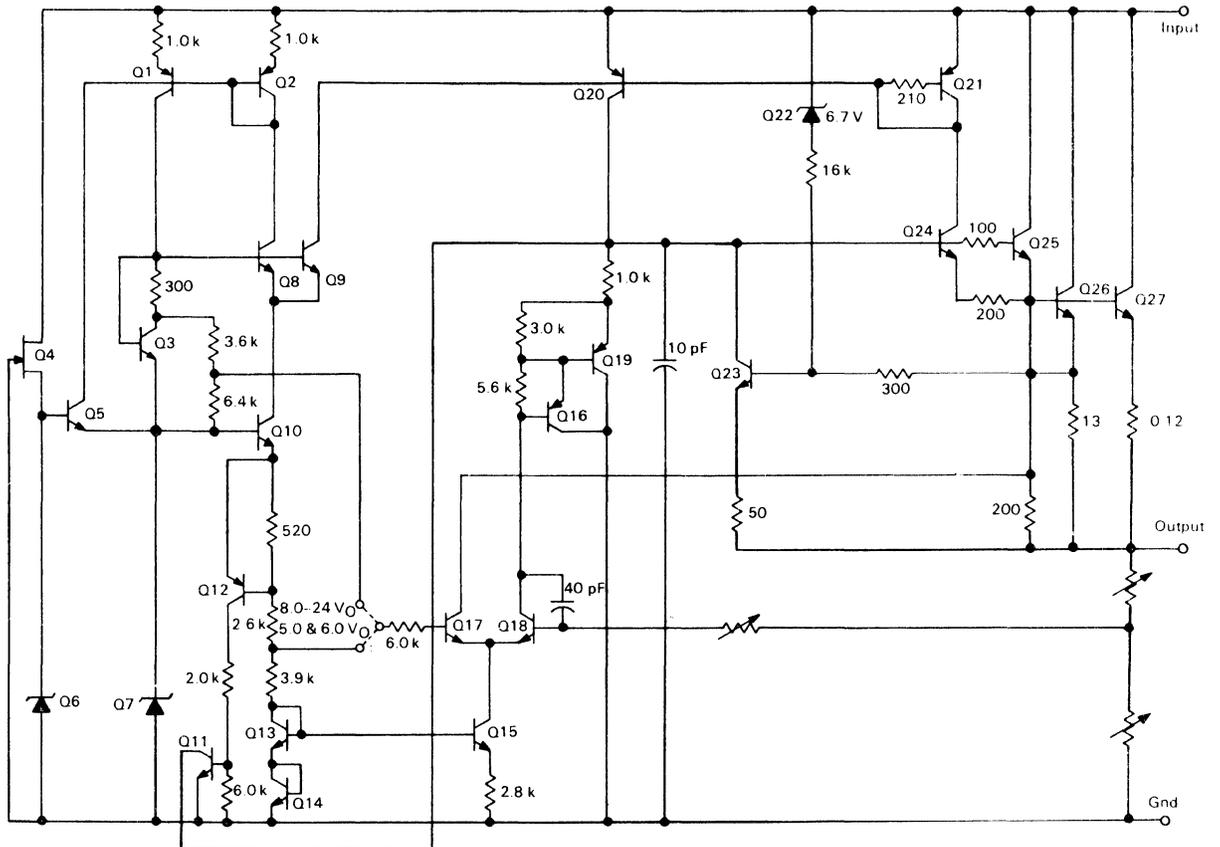
1. V_{AUX} COMMON
2. V_{AUX}
3. VOLTAGE LOOP COMPENSATION
4. CURRENT LOOP COMPENSATION
5. OUTPUT
6. VOLTAGE SENSE
7. CURRENT OFFSET
8. CURRENT SENSE
9. VOLTAGE REFERENCE CURRENT ADJUST
10. V_{AUX} POSITIVE

14. CIRCUIT DRAWINGS

F240



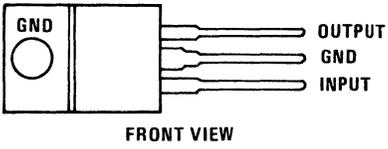
F241



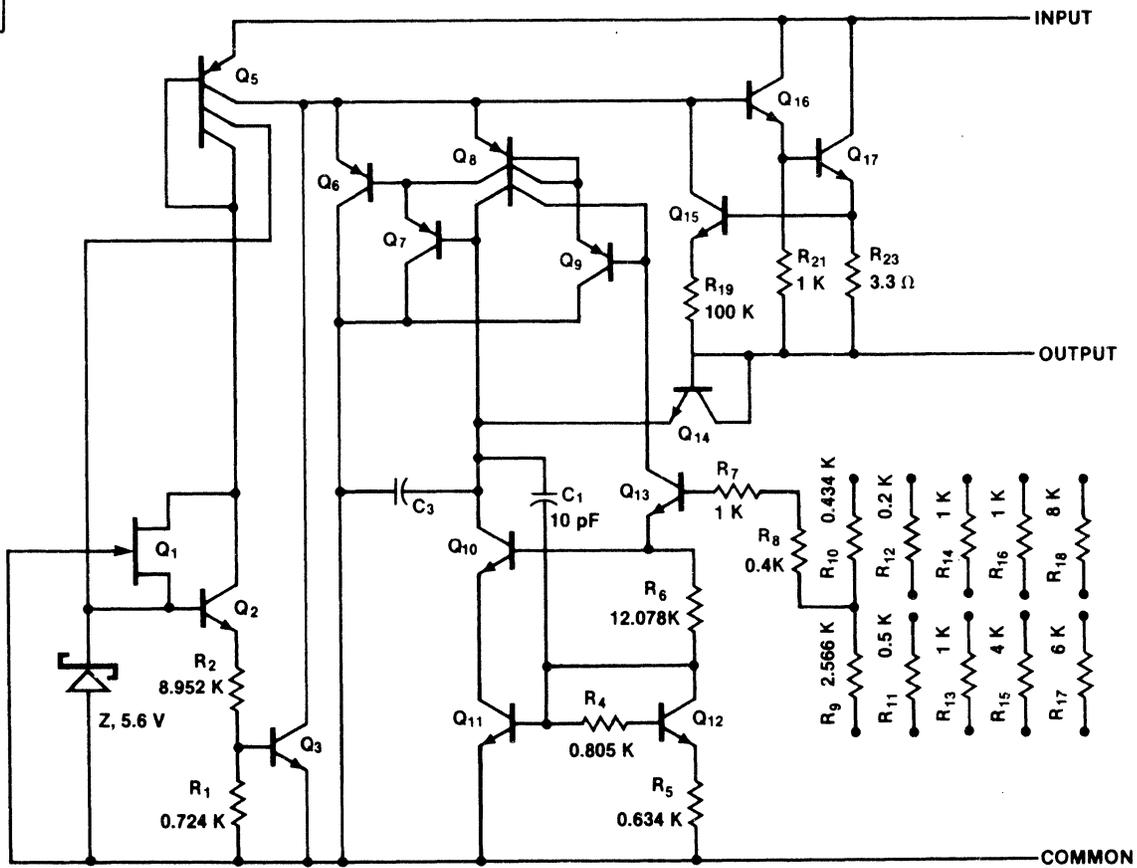
14. CIRCUIT DRAWINGS

F242

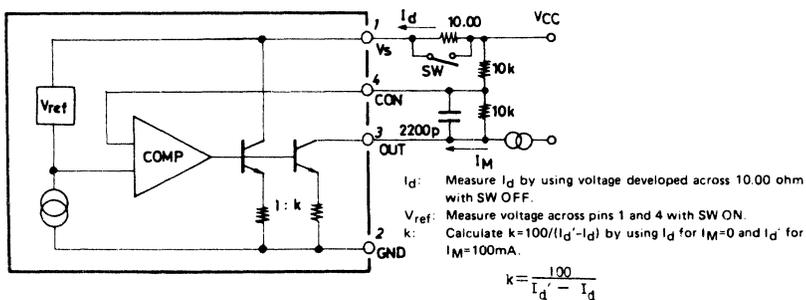
(TO-220)
Plastic Package



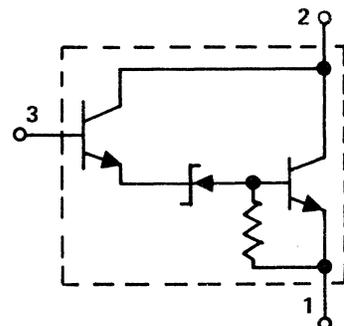
F243



F244

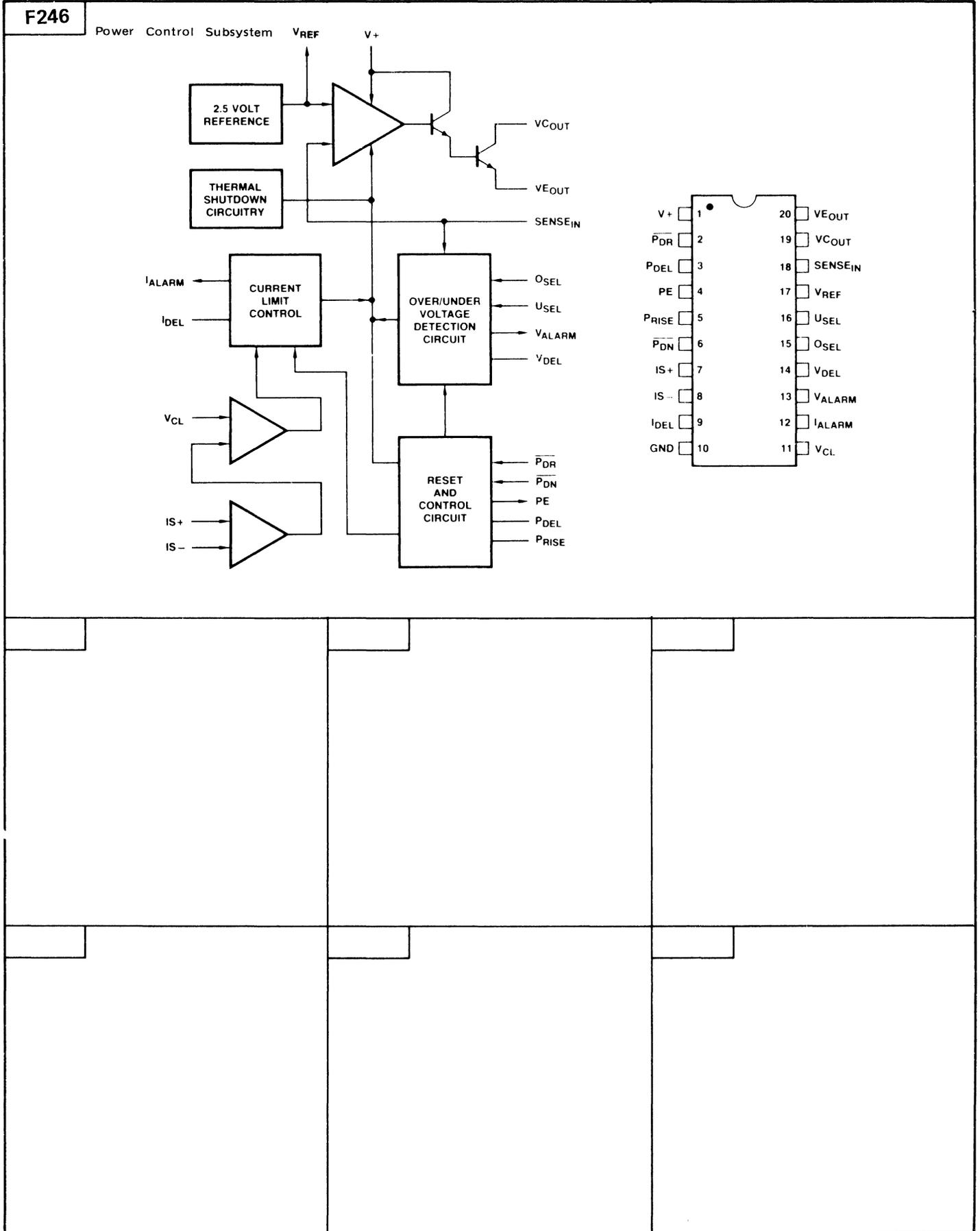


F245



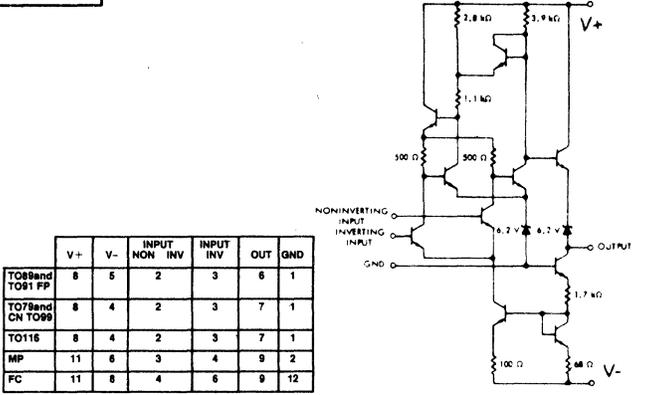
EQUIVALENT CIRCUIT

14. CIRCUIT DRAWINGS



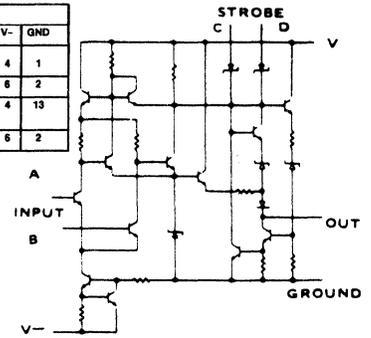
14. CIRCUIT DRAWINGS

G001

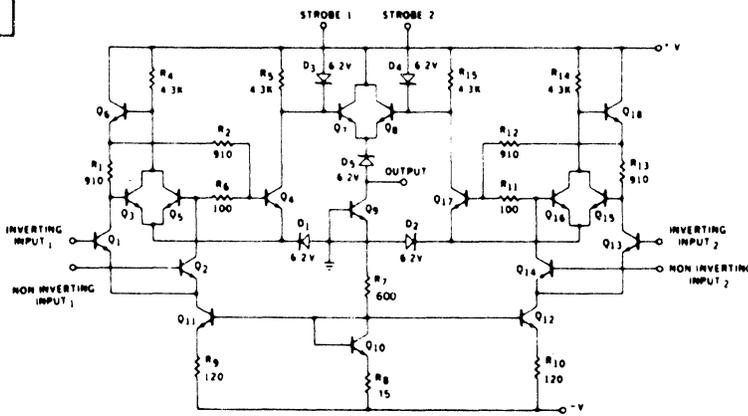


G005

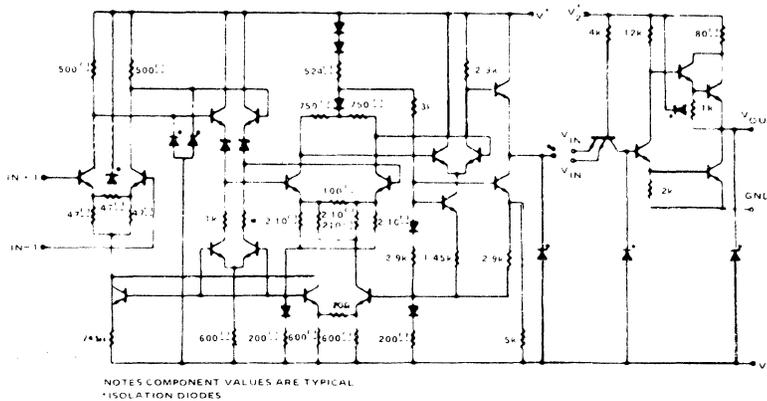
PKG	CKT NO.	INPUT		STROBE		OUT	V+	V-	GND
		A	B	C	B				
G005	CN, M-P	2	3	5	6	7	8	4	1
G005a	FP	3	4	7	8	9	11	6	2
G005b	MP	1	2	3	1	14	12	11	4
		2	6	5	7	8	10		
G005c	MP	3	4	7	8	9	11	6	2



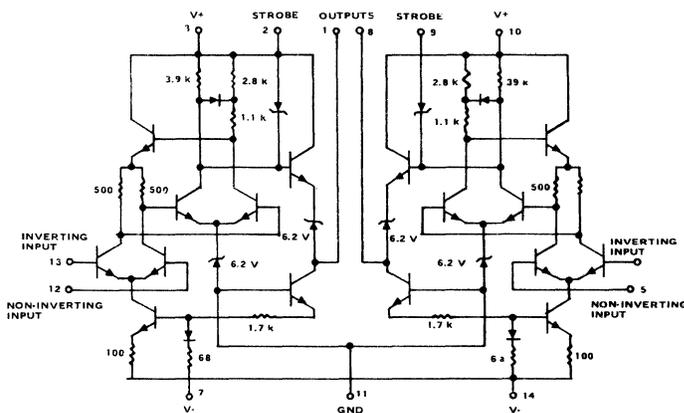
G006



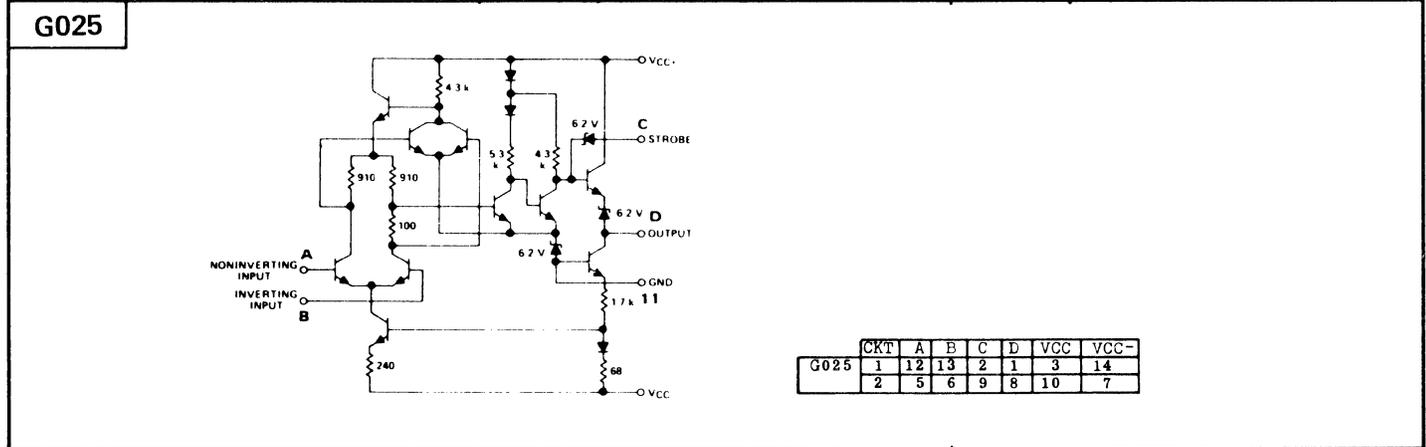
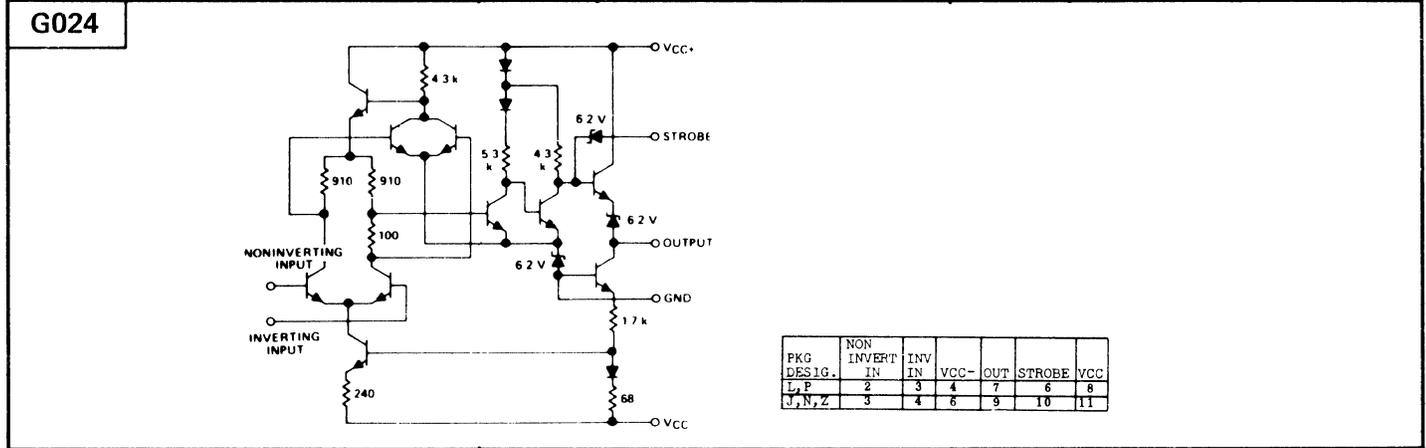
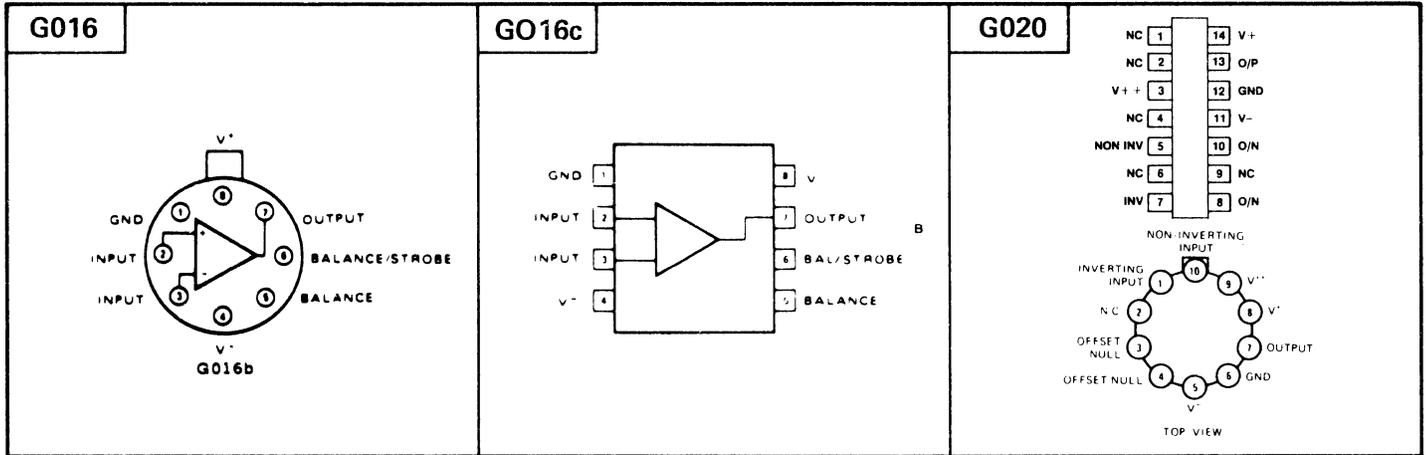
G009



G012

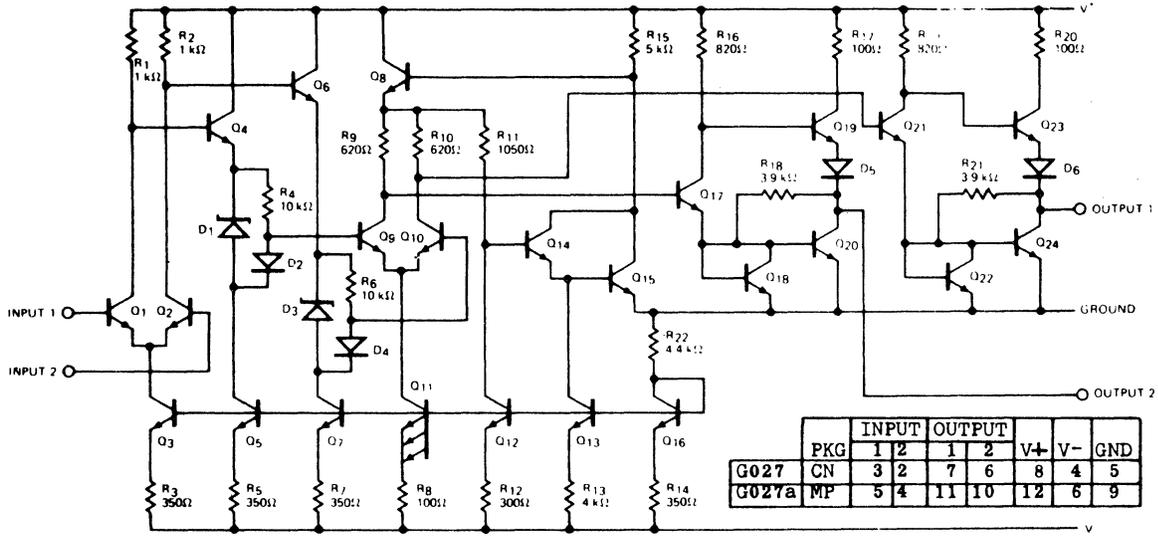


14. CIRCUIT DRAWINGS

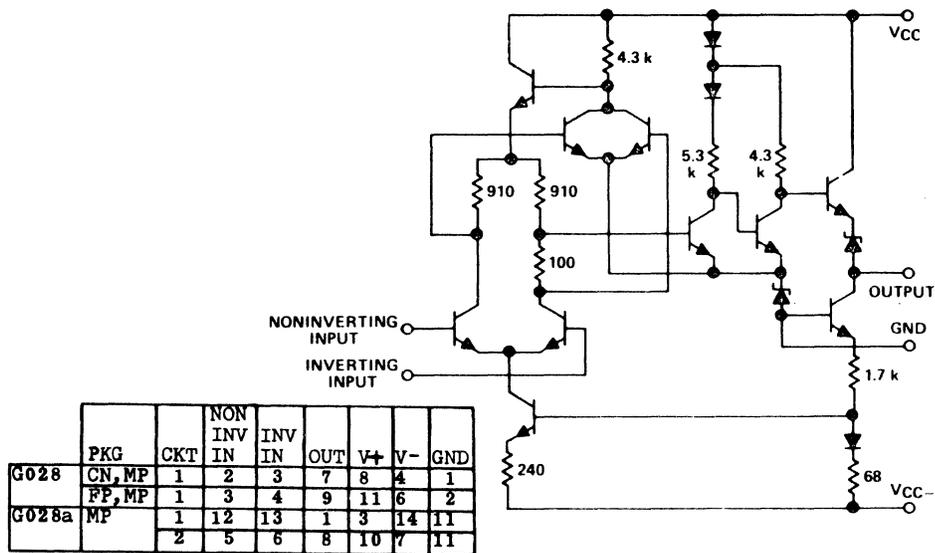


14. CIRCUIT DRAWINGS

G027

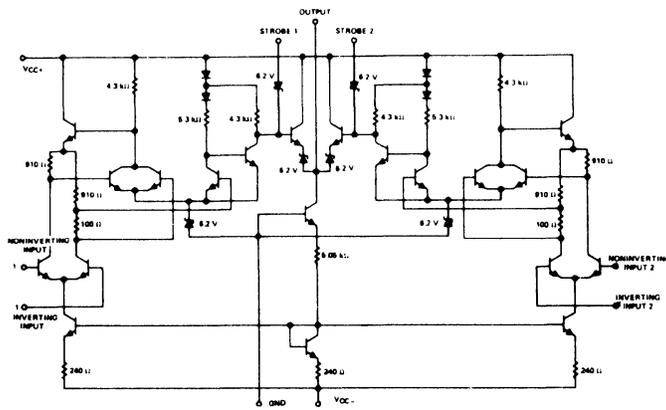


G028



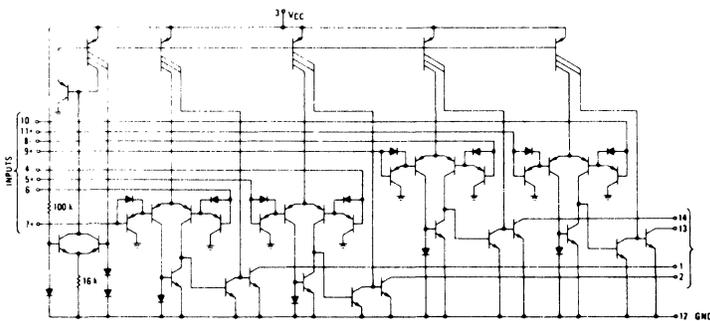
14. CIRCUIT DRAWINGS

G029

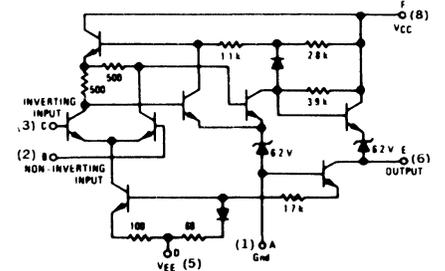


PKG	NON INV		INV IN STROBE		OUT	GND	VCC-	VCC+			
	IN1	IN2	1	2							
G029	CN	4	6	3	7	2	8	9	1	5	10
	PP	3	5	2	6	13	9	10	12	4	11
	PP	2	4	1	5	10	6	7	9	3	8

G032



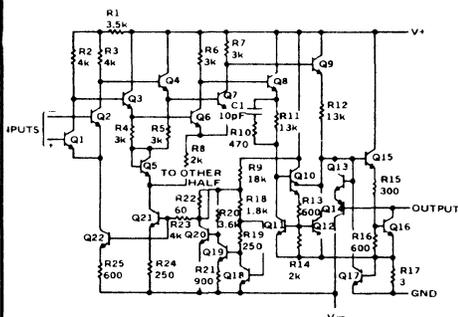
G033



NUMBER IN PARENTHESIS SPECIFIES TO91 PIN CONNECTIONS.

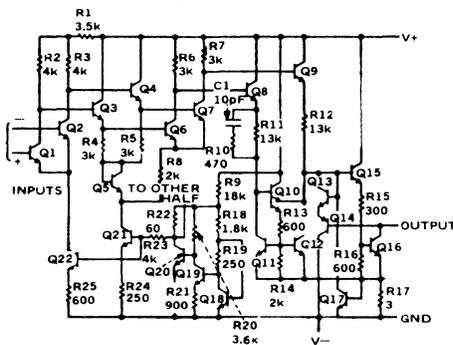
G035

PKG	CKT	INP		OUTP	V+	V-	GND	
		1	2					
G035	CN	2	4	3	6	10	5	7
	PP	1	4	3	6	10	5	7
	MP	1	5	4	12	11	6	8

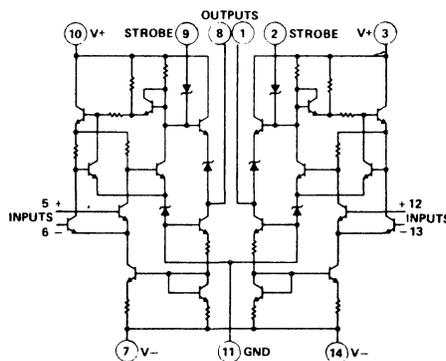


G037

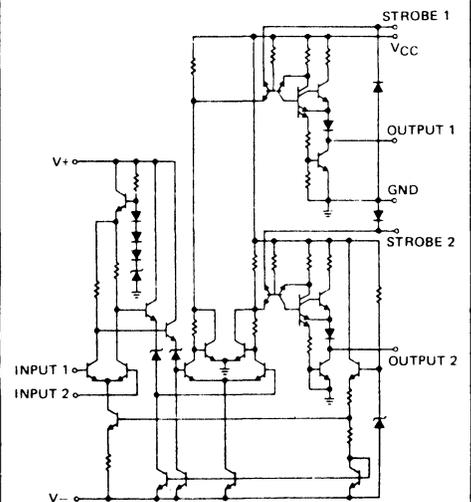
PKG	CKT	INPUT		OUTP	V+	V-	GND	
		+	-					
G037	MP	1	4	5	12	11	6	3
	CN	2	3	10	7	5	2	8
	CN	1	3	4	1	10	5	2
	CN	2	7	6	9	8	7	7



G039



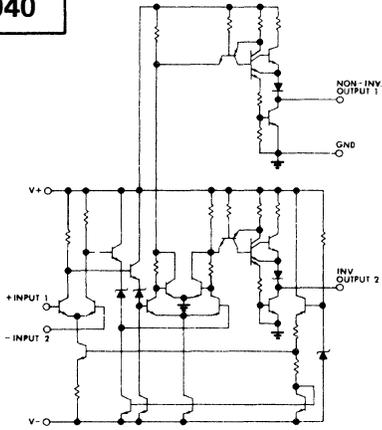
G038



PKG	V+	INPUT		STROBE		OUTPUT	GND	VCC			
		1	2	3	2						
G038	PP	1	3	4	6	13	6	11	9	10	14
	CN	10	1	2	3	8	4	7	5	6	9

14. CIRCUIT DRAWINGS

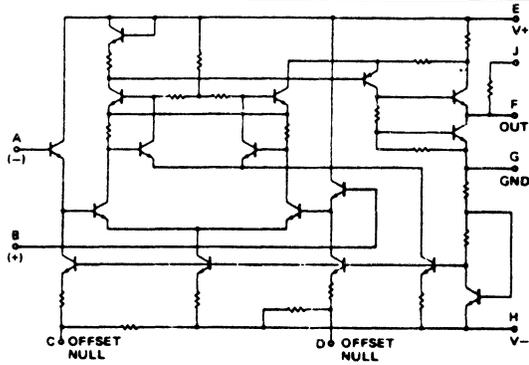
G040



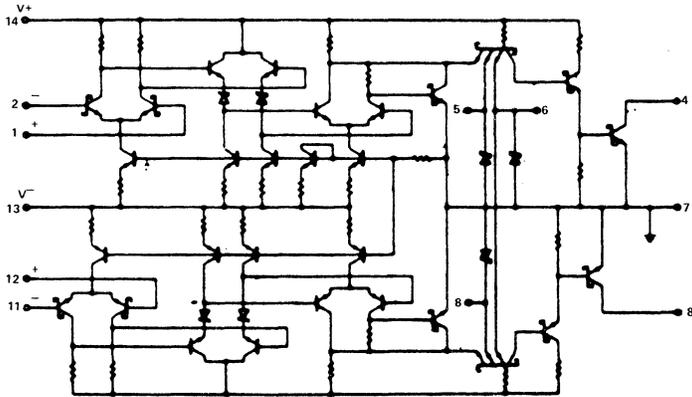
G040	INPUT			OUTPUT			
	1	2	V-	1	2	V+	
CN	3	2	4	5	7	6	8
FP/MP	5	4	6	9	11	10	12

G041

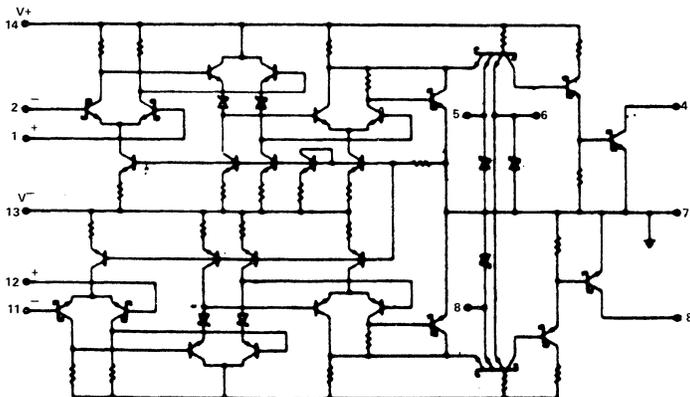
G041		A	B	C	D	E	F	G	H	J
CN	1	10	3	4	9	7	6	5	8	
MP	7	5	8	10	3	13	12	11	14	



G042

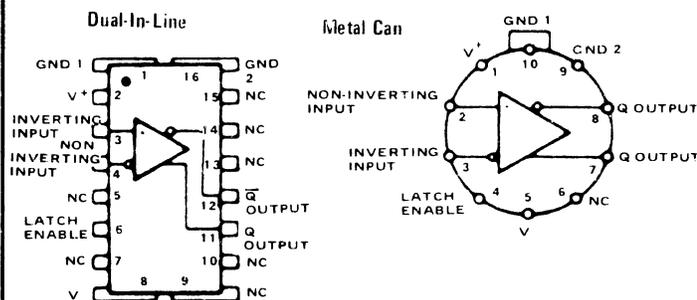


G043

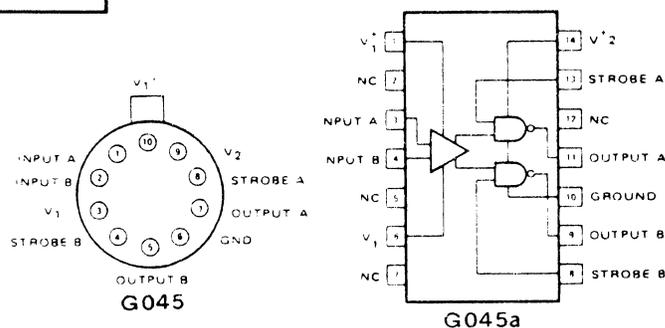


14. CIRCUIT DRAWINGS

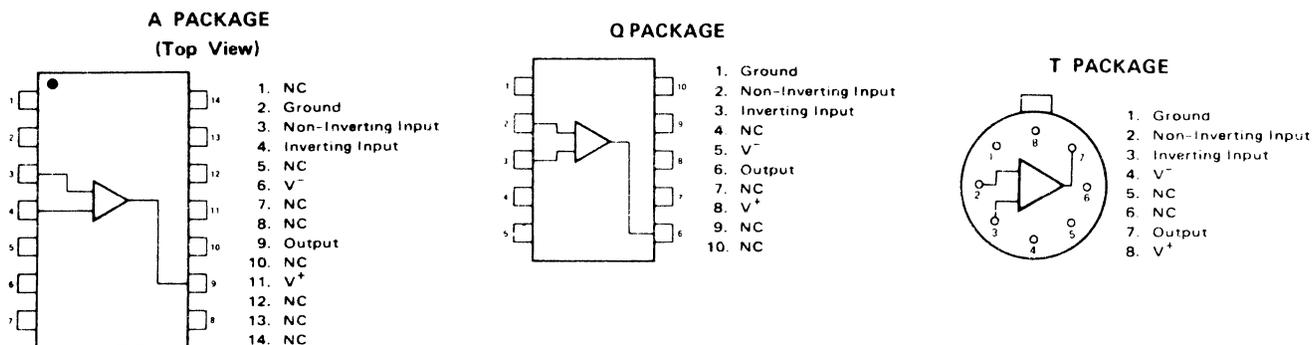
G044



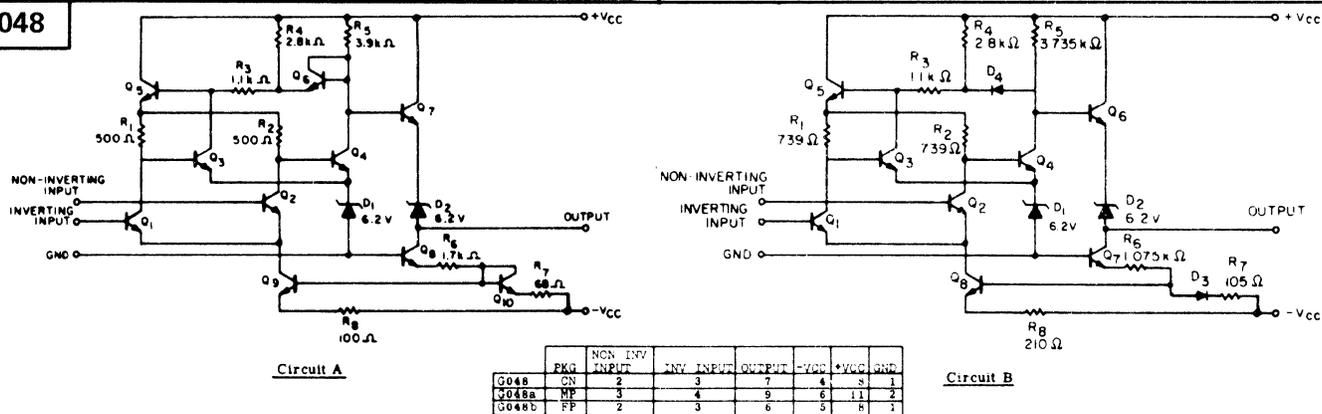
G045



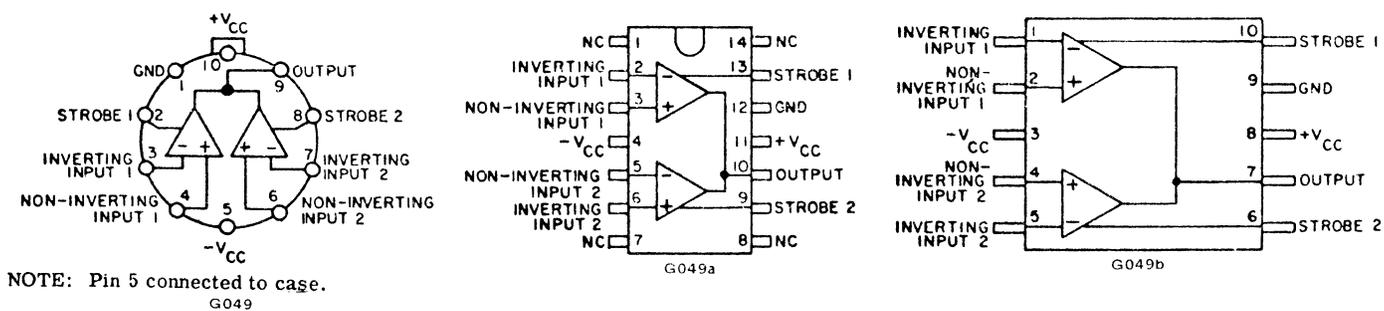
G047



G048

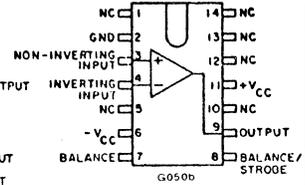
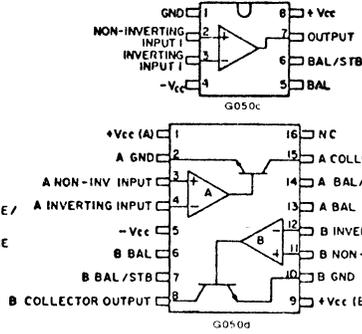
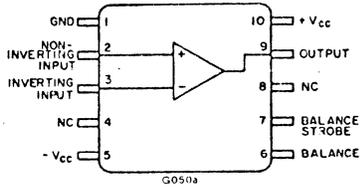
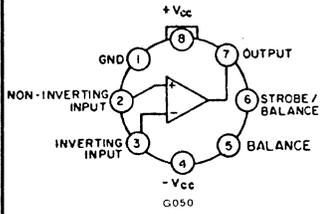


G049



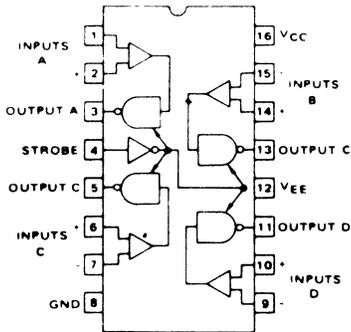
14. CIRCUIT DRAWINGS

G050

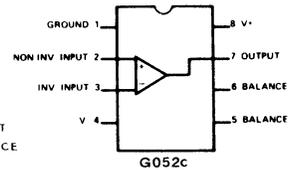
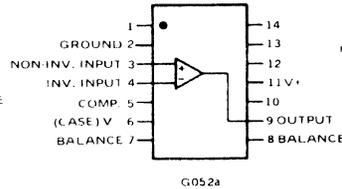
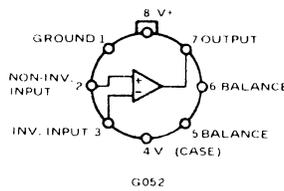


NOTES:
 1. +V_{CC(A)} and +V_{CC(B)} shall not be internally connected.
 2. -V_{CC} connected to the case of metal packages.

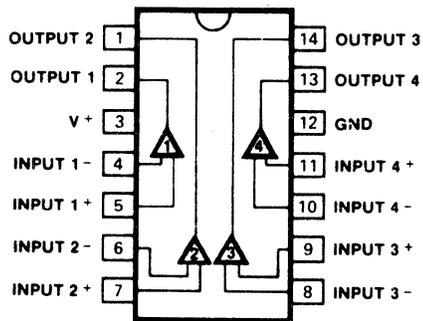
G051



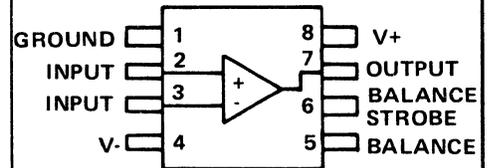
G052



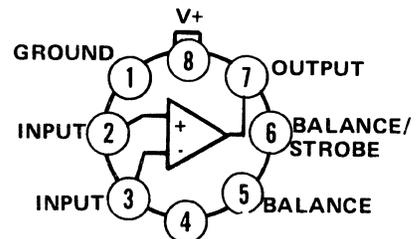
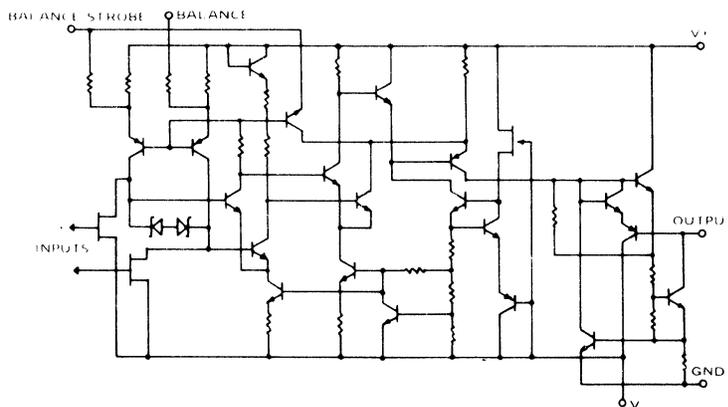
G053



G056

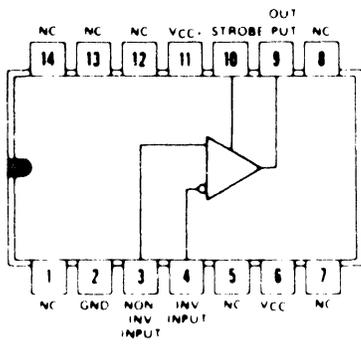


G061

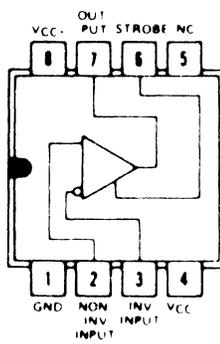


15. OUTLINE DRAWINGS

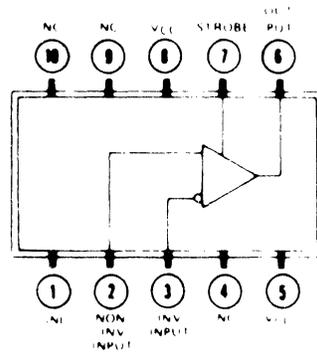
G069



G069

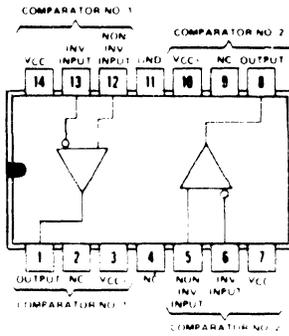


G069a

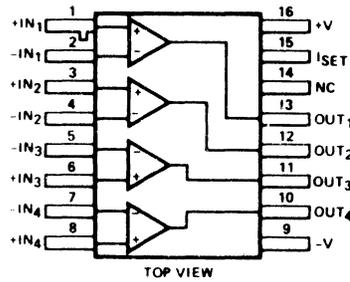


G069c

G070

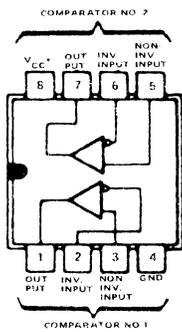


G073

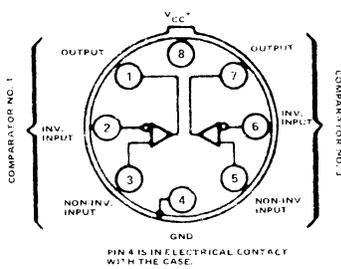


G079

G079a

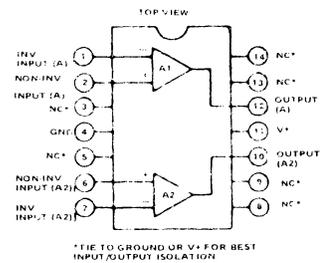


G079b



PIN 4 IS IN ELECTRICAL CONTACT WITH THE CASE.

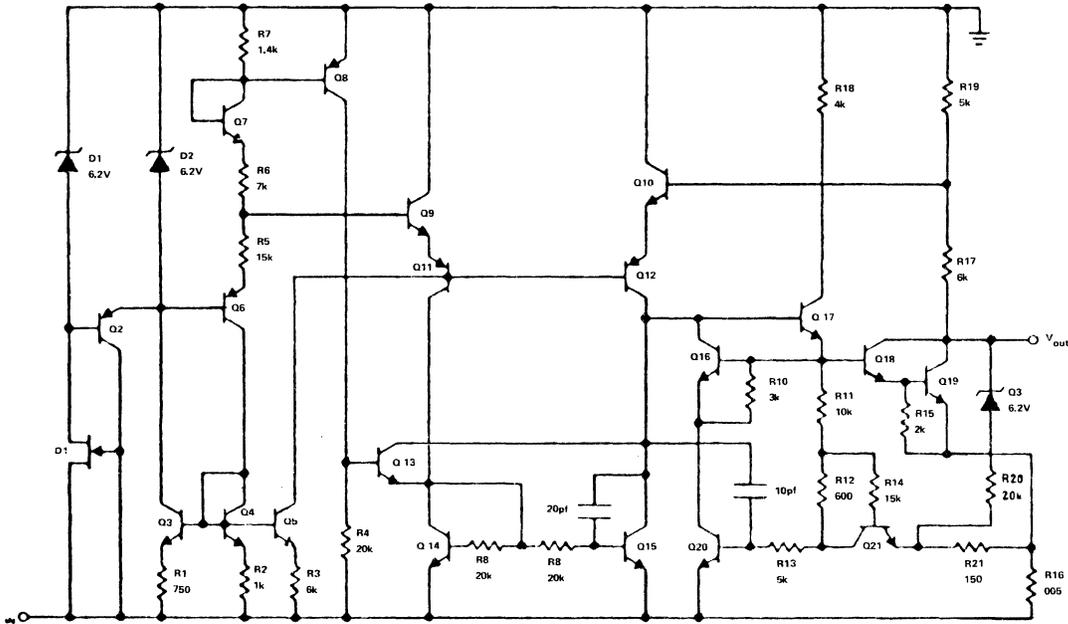
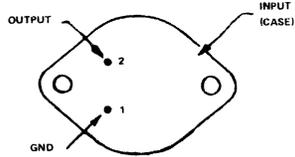
G079c



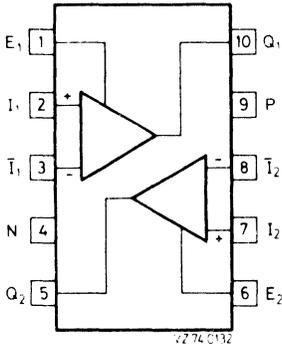
*TIE TO GROUND OR V+ FOR BEST INPUT/OUTPUT ISOLATION.

14. CIRCUIT DRAWINGS

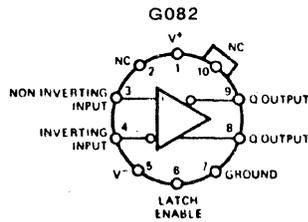
G080



G081

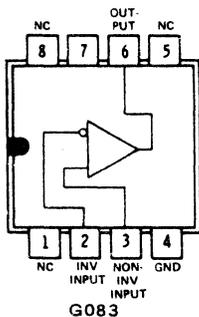


G082



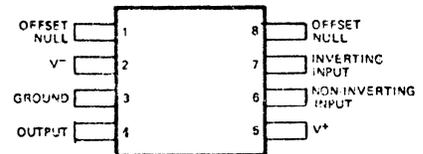
NOTE 1: ON G082, PIN 5 IS CONNECTED TO CASE.
ON G082a, PIN 6 IS CONNECTED TO CASE.

G083

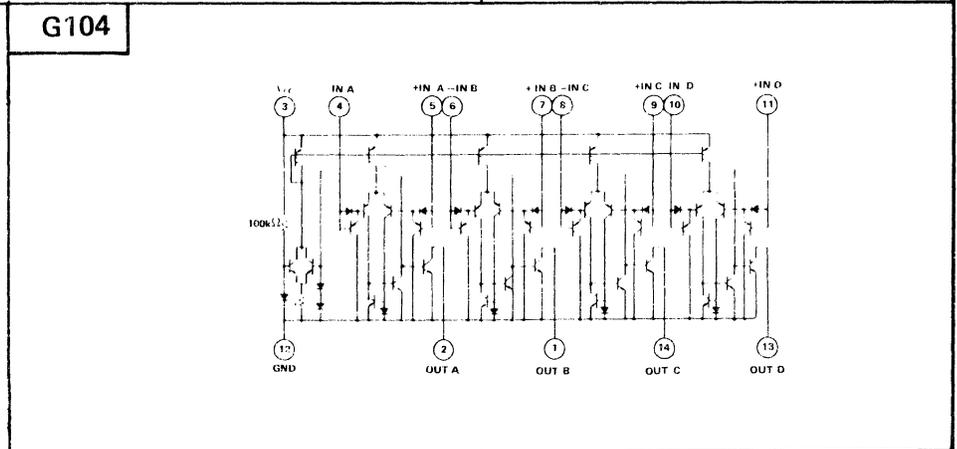
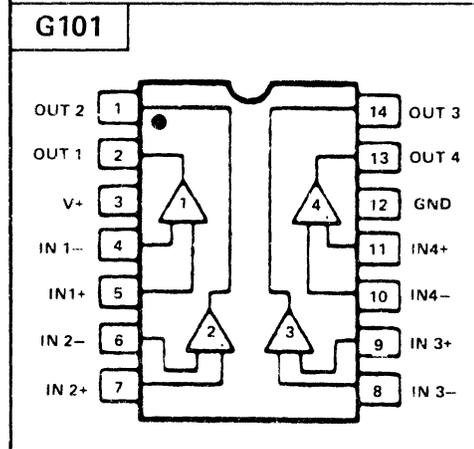
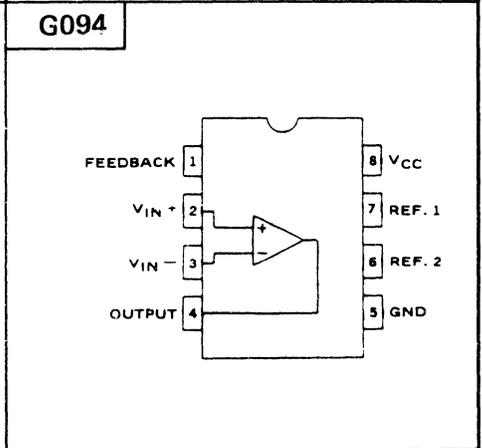
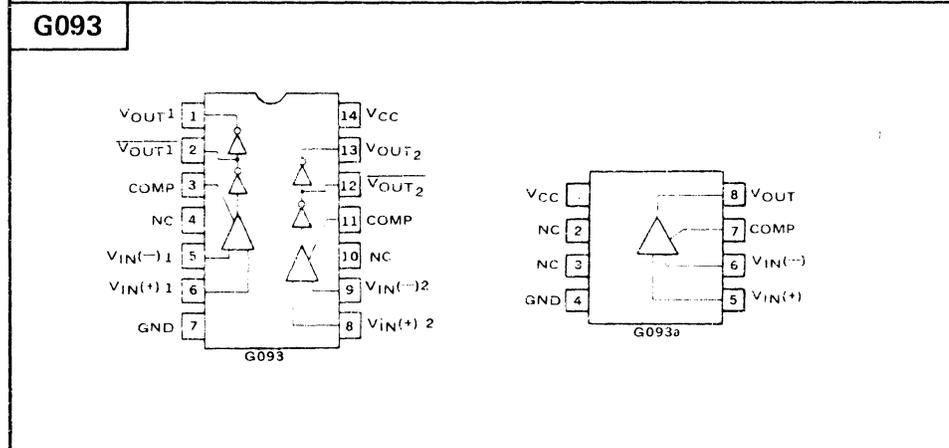
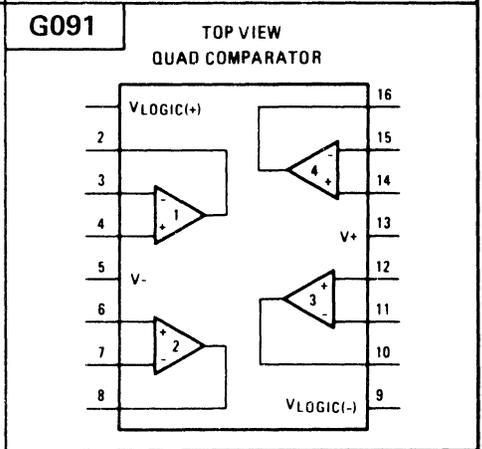
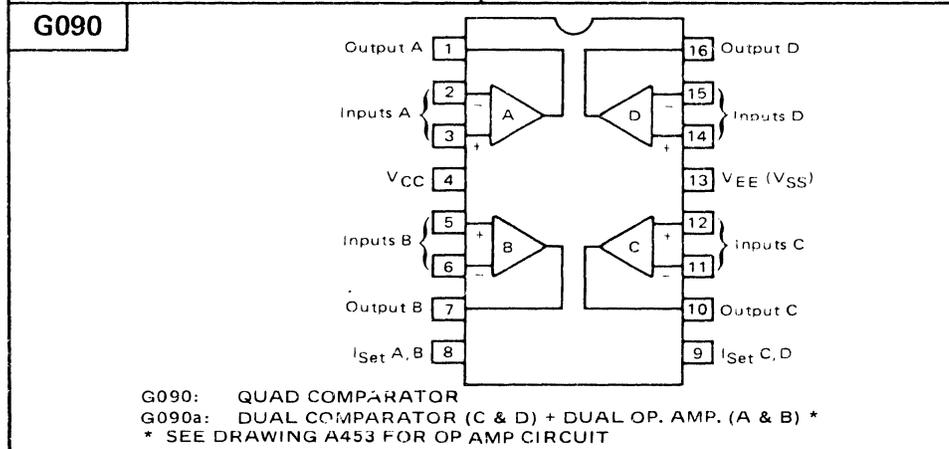
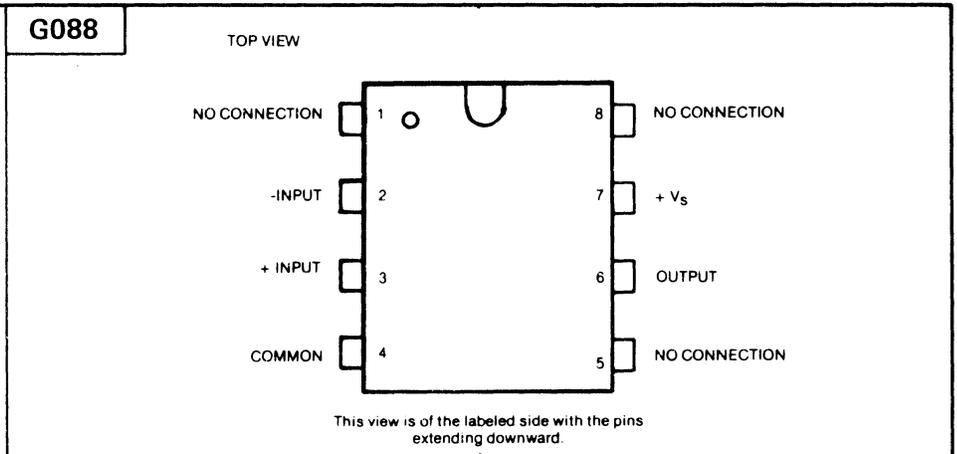
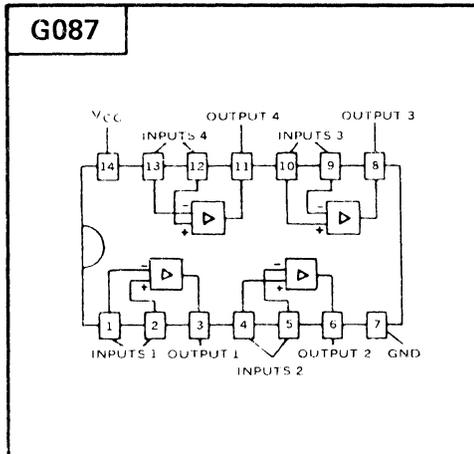


PIN 4 IS IN ELECTRICAL CONTACT WITH THE CASE

G085

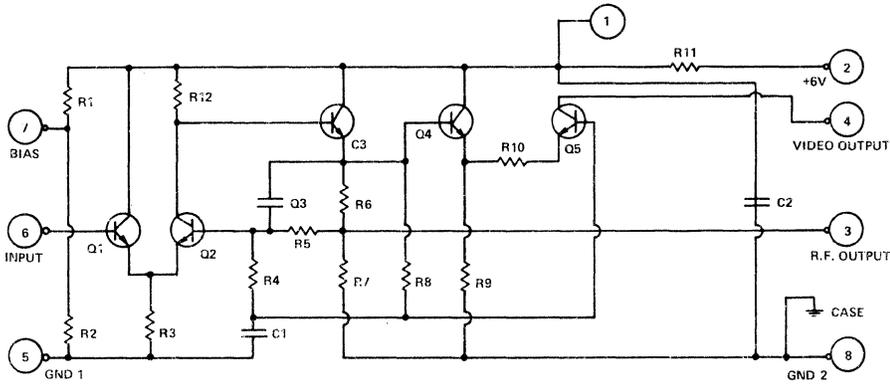


14. CIRCUIT DRAWINGS

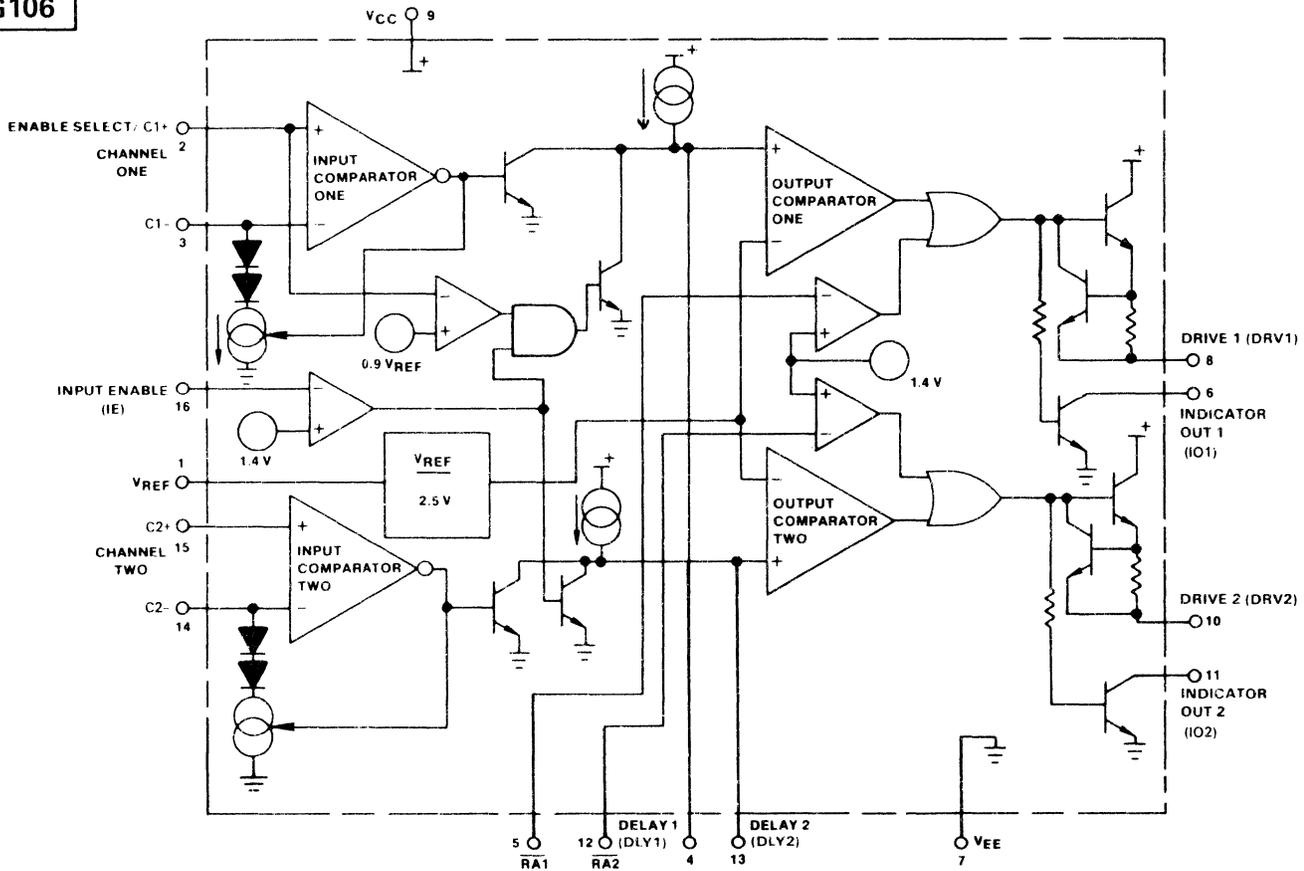


14. CIRCUIT DRAWINGS

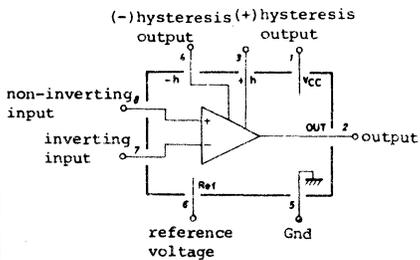
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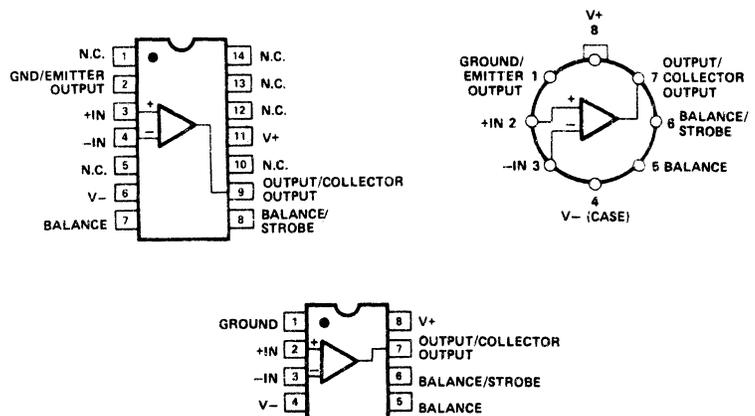
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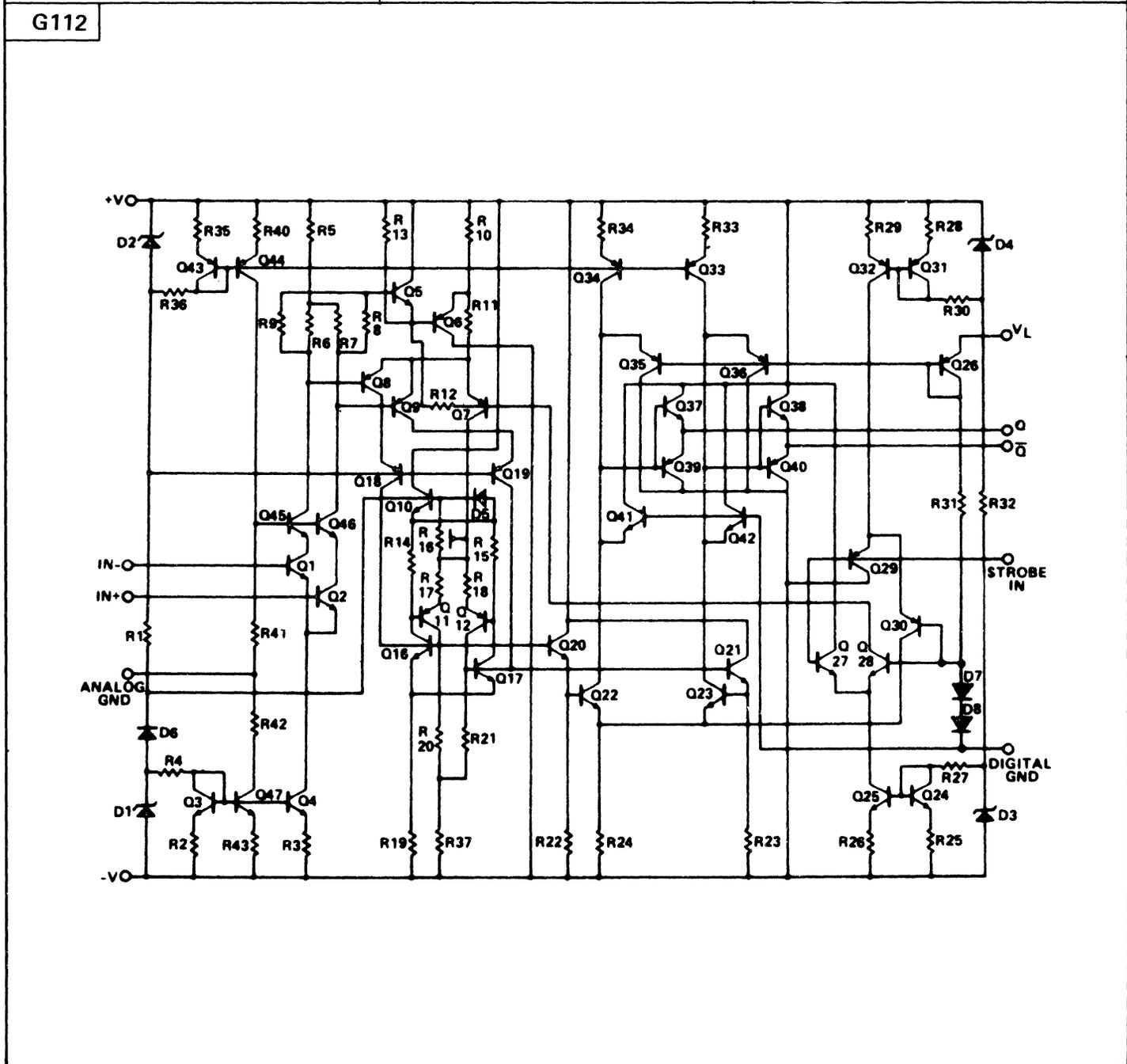
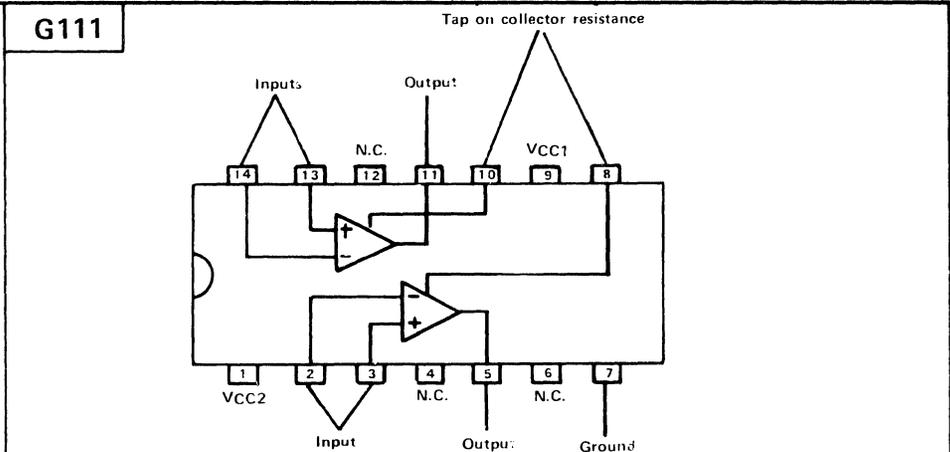
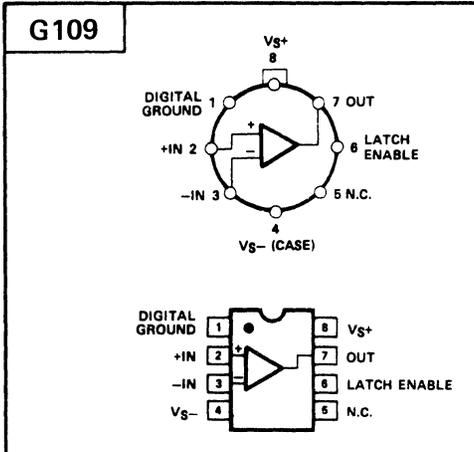
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G108

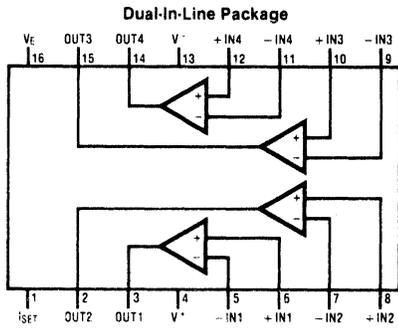


14. CIRCUIT DRAWINGS



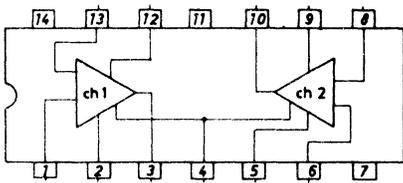
14. CIRCUIT DRAWINGS

G113



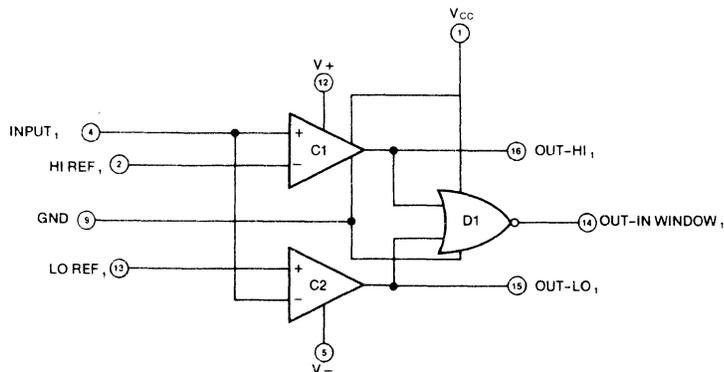
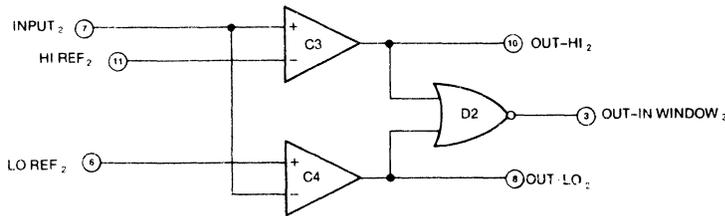
G114

pin assignment

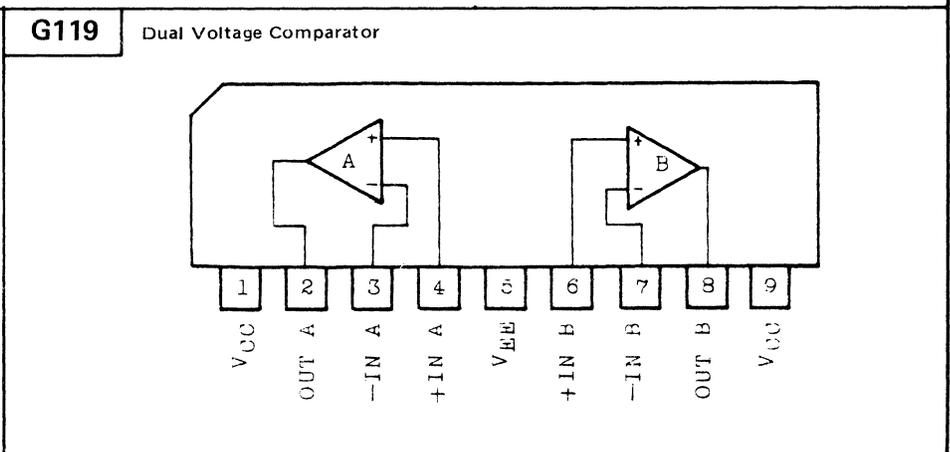
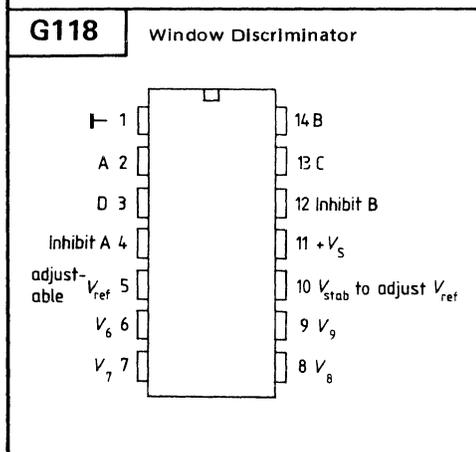
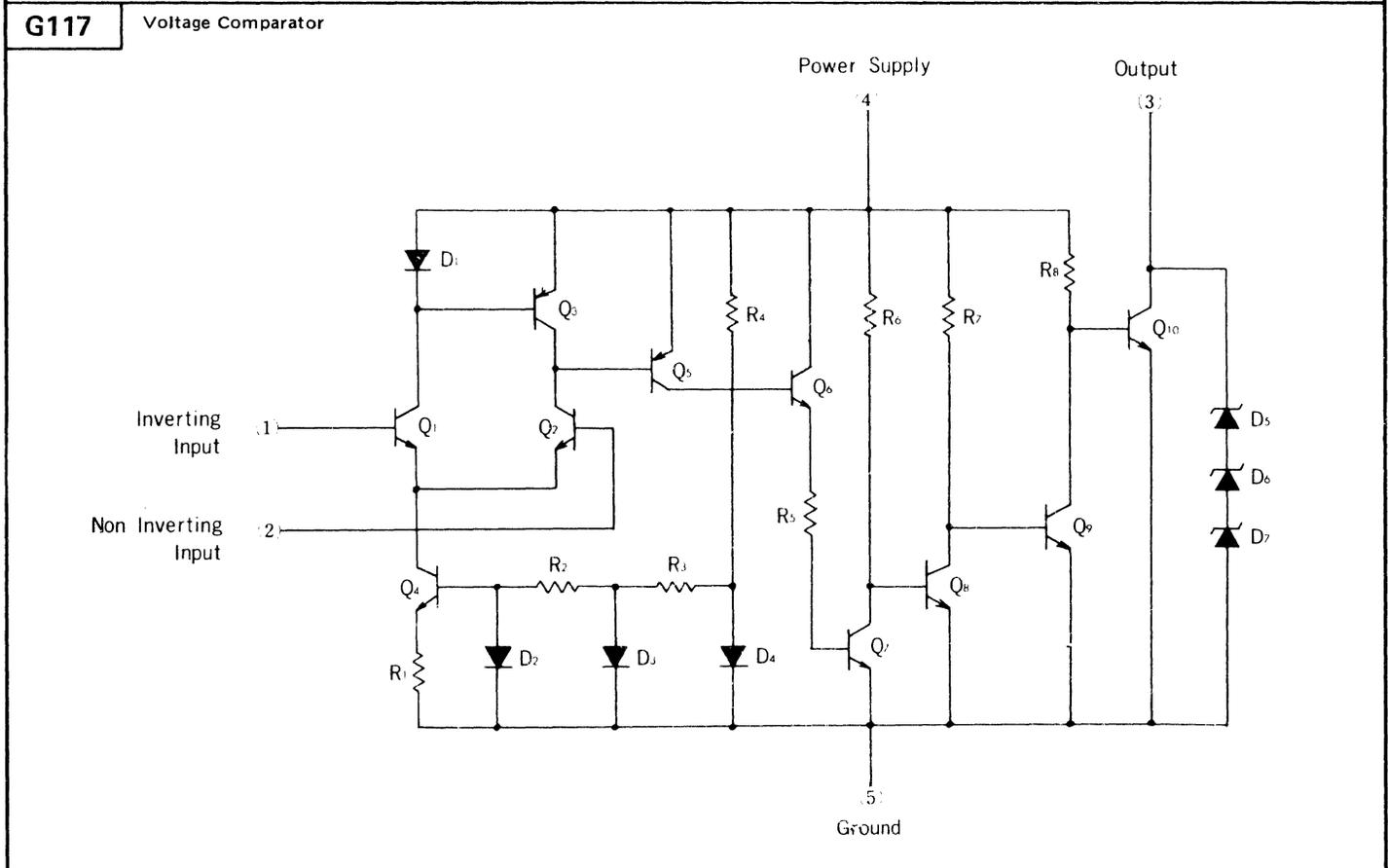
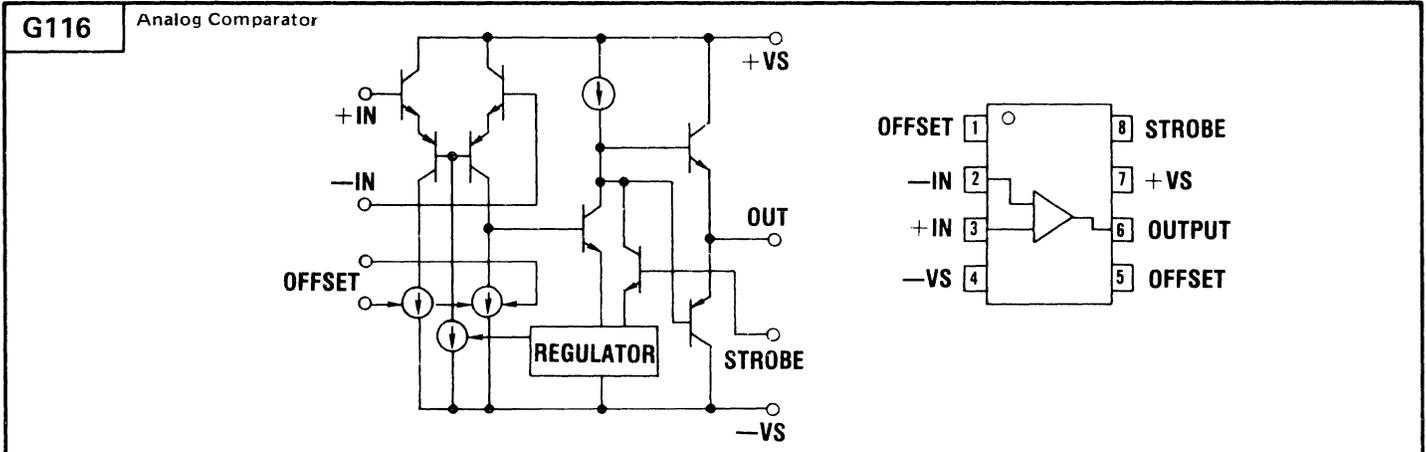


- | | |
|-------------------------------------|-------------------------------------|
| 1. channel 1 signal input | 8. channel 2 signal input |
| 2. channel 1 frequency compensation | 9. channel 2 frequency compensation |
| 3. channel 1 output | 10. channel 2 output |
| 4. GND | 11. - |
| 5. channel 2 power | 12. channel 1 power |
| 6. channel 2 control input | 13. channel 1 control input |
| 7. - | 14. - |

G115



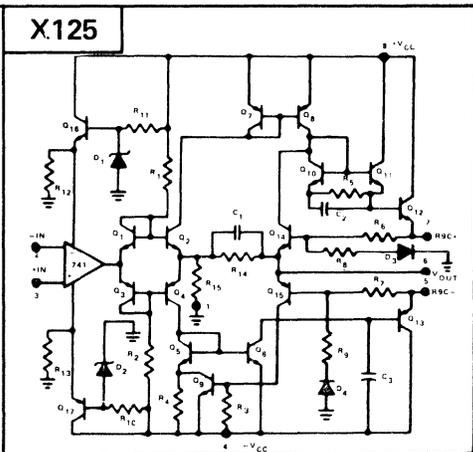
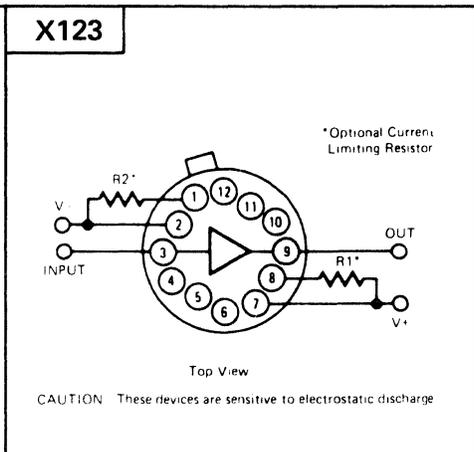
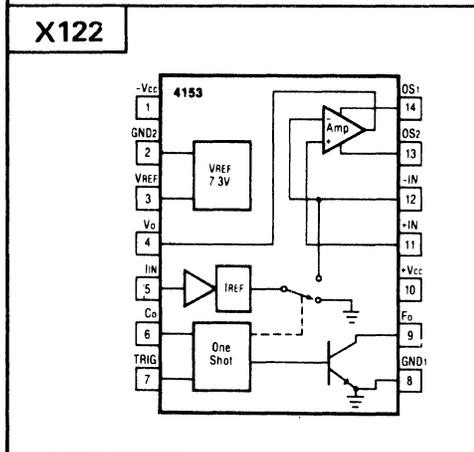
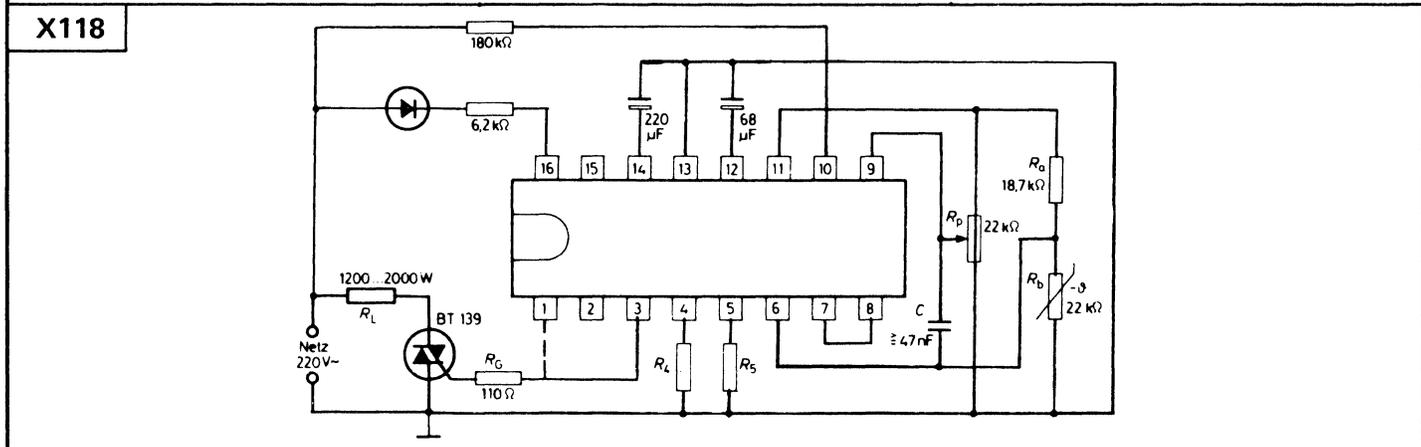
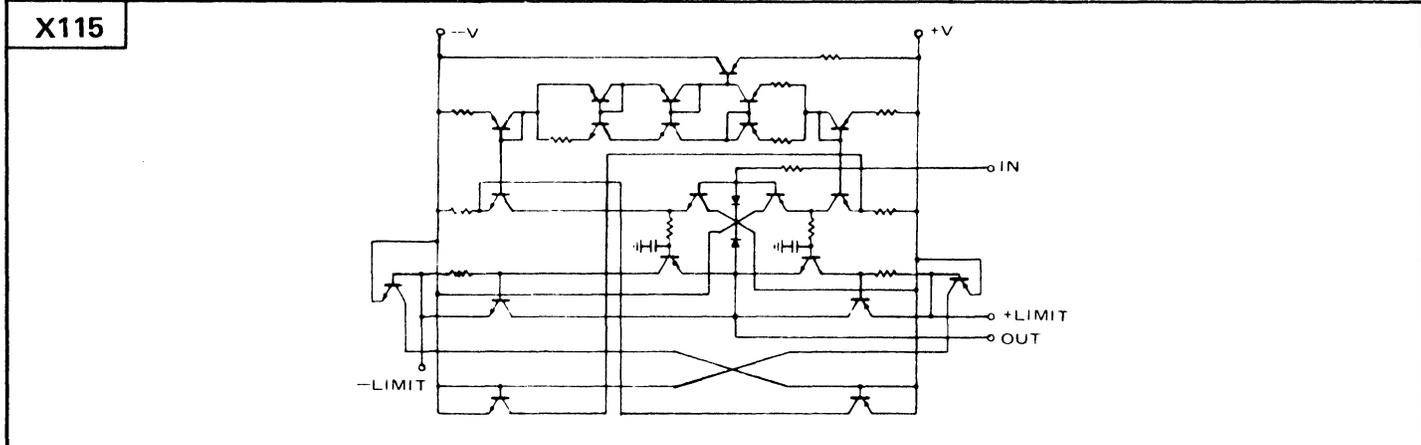
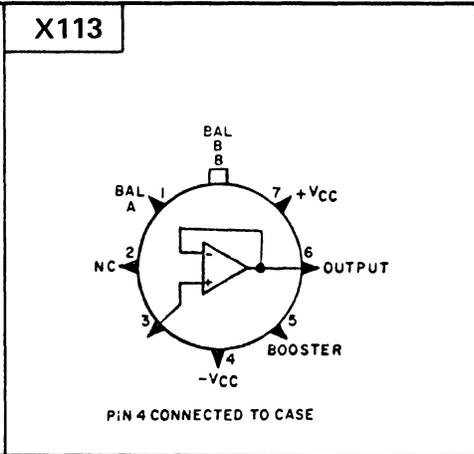
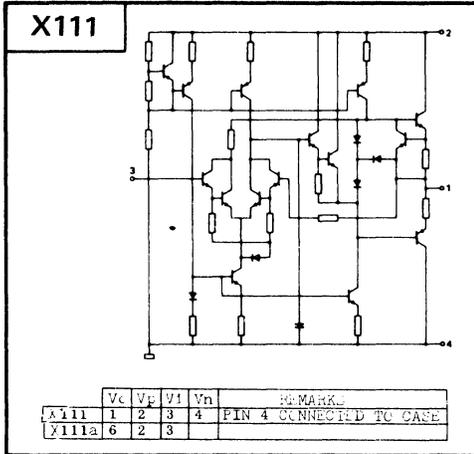
14. CIRCUIT DRAWINGS



14. CIRCUIT DRAWINGS

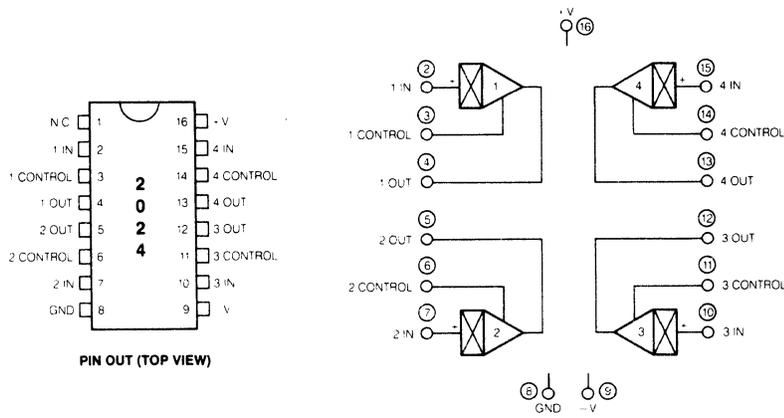
<p>X101</p> <p>Metal Can Package</p> <p style="text-align: center;">X101</p>	<p>X101a</p> <p>Dual-In-Line Package</p> <p style="text-align: center;">X101a</p>	<p>X103</p> <ul style="list-style-type: none"> 7-Positive Current Limit Adjust 6-Positive Output 5-Positive Current Sense 4-Negative Current Sense 3-Negative Output 2-Negative Current Limit Adjust 																																		
<p>X104</p>	<p>X105</p>																																			
<p>X108</p>	<p>X109</p>																																			
<p>X110</p> <p style="font-size: small;">PIN NUMBERS SHOWN FOR TO 8 ("G") PACKAGE</p> <p style="font-size: small; text-align: right;">CASE IS ELECTRICALLY ISOLATED</p>	<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th rowspan="2">PKG</th> <th rowspan="2">IN</th> <th>OFF</th> <th>OFF</th> <th colspan="2">VC</th> <th colspan="2">V</th> <th rowspan="2">OUT</th> </tr> <tr> <th>ADJ</th> <th>PRE</th> <th>+</th> <th>-</th> <th>+</th> <th>-</th> </tr> </thead> <tbody> <tr> <td>X109</td> <td>CN</td> <td>5</td> <td>7</td> <td>6</td> <td>1</td> <td>9</td> <td>12</td> <td>10</td> <td>11</td> </tr> <tr> <td></td> <td>MP</td> <td>1</td> <td>3</td> <td>2</td> <td>7</td> <td>6</td> <td>8</td> <td>5</td> <td>4</td> </tr> </tbody> </table> <p style="font-size: x-small;">PIN NUMBERS SHOWN FOR TO 8 ("B") PACKAGE</p>	PKG	IN	OFF	OFF	VC		V		OUT	ADJ	PRE	+	-	+	-	X109	CN	5	7	6	1	9	12	10	11		MP	1	3	2	7	6	8	5	4
PKG	IN			OFF	OFF	VC		V			OUT																									
		ADJ	PRE	+	-	+	-																													
X109	CN	5	7	6	1	9	12	10	11																											
	MP	1	3	2	7	6	8	5	4																											

14. CIRCUIT DRAWINGS

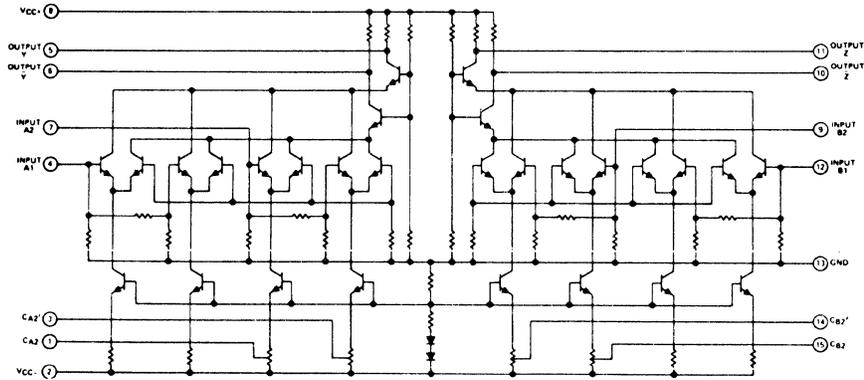


14. CIRCUIT DRAWINGS

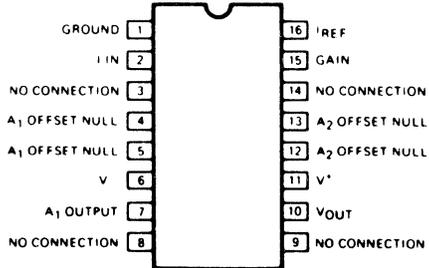
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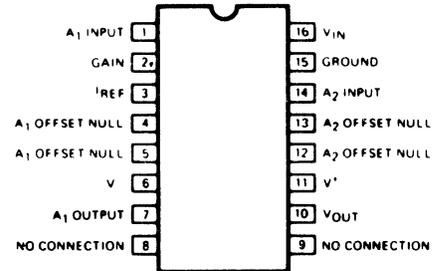
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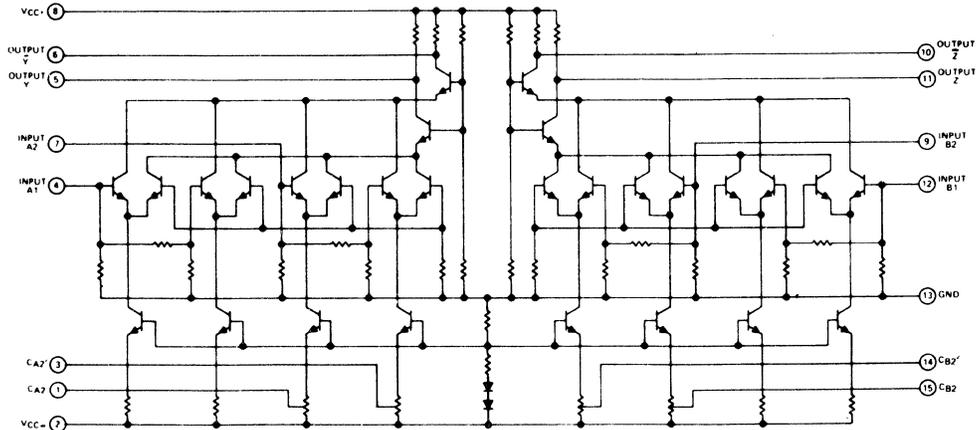
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X207

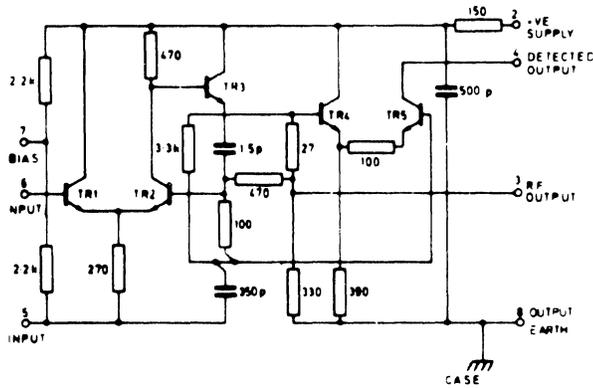


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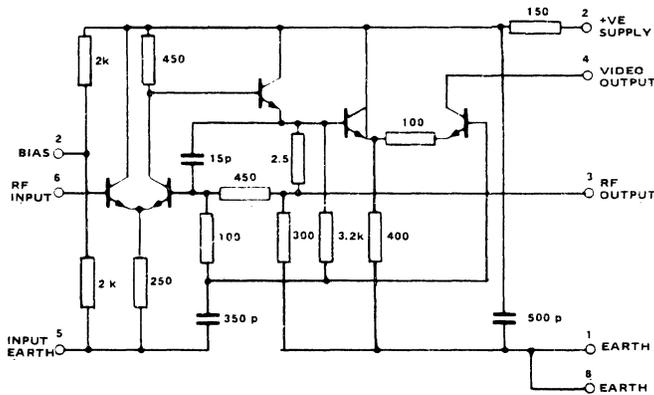


14. CIRCUIT DRAWINGS

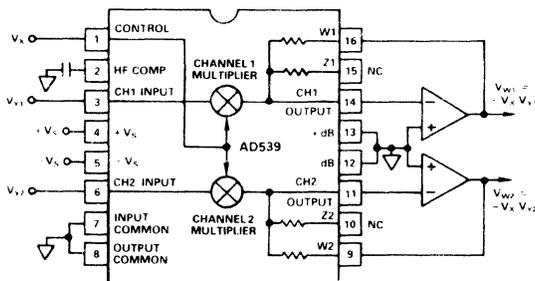
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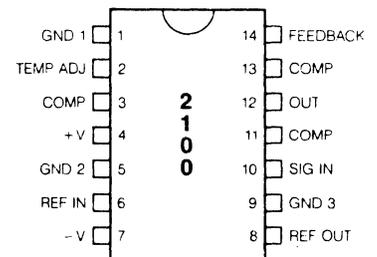
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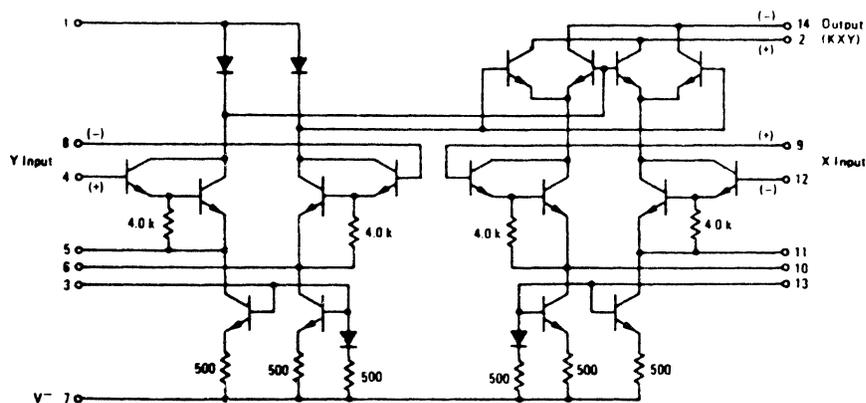
X221



X222

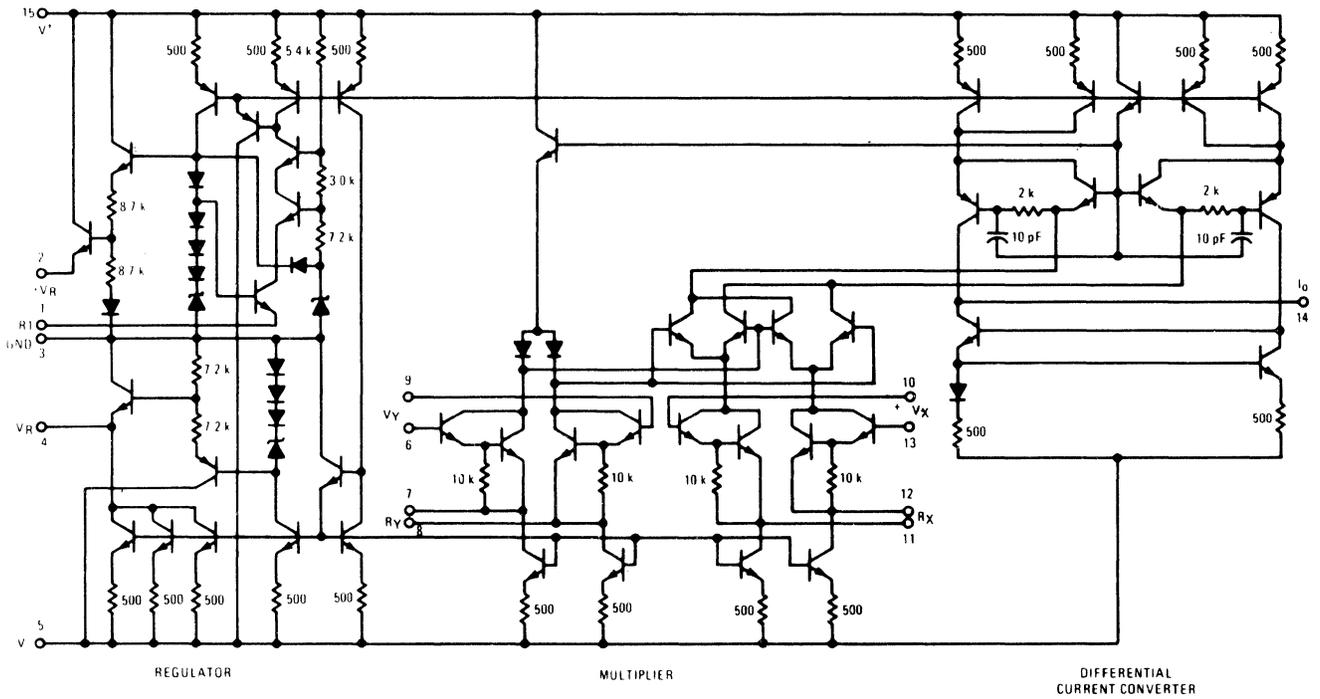


X301

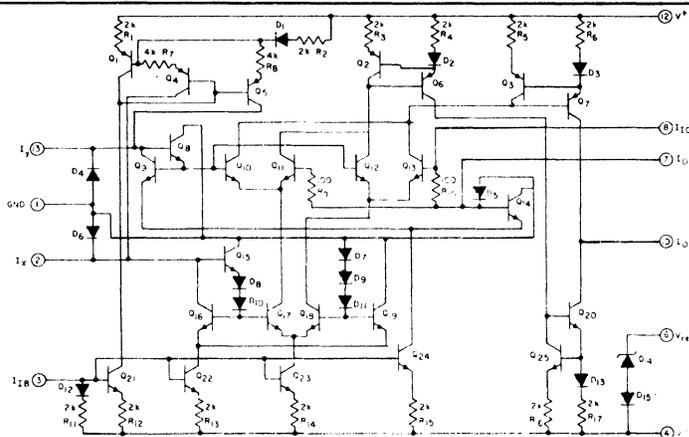


14. CIRCUIT DRAWINGS

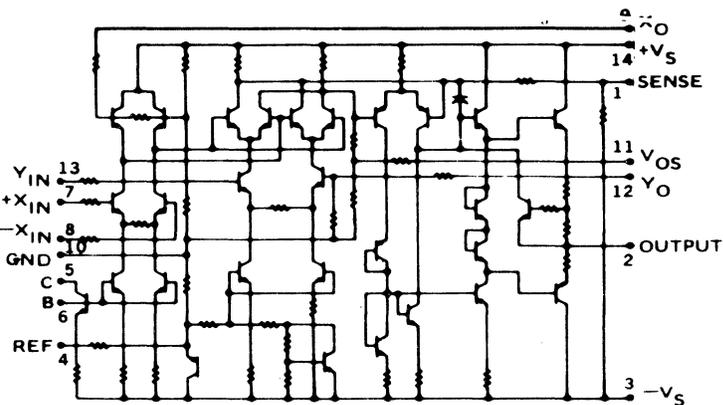
X304



X305



X306



14. CIRCUIT DRAWINGS

X307

FIG	X1	Z2	Y1	Y2	COM	V _{OS}	+V _S	-V _S	COM
X307	8	7	1	10	4	3	9	2	5
Y2	7	9	13	12	2	1	11	14	3

X311

X312

PIN	
1	Y1
2	+15V
3	Z
4	OUT
5	-15V
6	X1
7	X2
8	COM.
9	V _{OS}
10	Y2

X316

TRANSFER FUNCTION

$$V_O = A \left[\frac{(X_1 - X_2)(Y_1 - Y_2)}{SF} \cdot (Z_1 - Z_2) \right]$$

X317

X322

X323

X324

X325

14. CIRCUIT DRAWINGS

<p>X402</p> <p>BIAS *402</p> <p>+V_{CC}</p> <p>COMPENSATION 1</p> <p>NON-INVERTING INPUT 2</p> <p>INVERTING INPUT 3</p> <p>COMPENSATION MS40 7</p> <p>OUTPUT 6</p> <p>-V_{CC} 5</p>	<p>X403</p> <p>I IN 1</p> <p>IS 2</p> <p>GND 3</p> <p>SYM 4</p> <p>VEE 5</p> <p>CAP 6</p> <p>Vout 7</p> <p>VCC 8</p>	
<p>X501</p> <p>SINE ADJ 1</p> <p>2</p> <p>3</p> <p>DUTY CYCLE ADJ 4</p> <p>5</p> <p>+V_{CC} 6</p> <p>FM BIAS 7</p> <p>SINE CONVERTER</p> <p>BUFFER</p> <p>FLIP FLOP</p> <p>COMP #1</p> <p>COMP #2</p> <p>NC 14</p> <p>NC 13</p> <p>SINE ADJ 12</p> <p>11</p> <p>TIMING CAPACITOR 10</p> <p>9</p> <p>FM/SWEEP INPUT 8</p>	<p>X502</p> <p>R₁ (EXTERNAL)</p> <p>V_c</p> <p>C₁ (EXTERNAL)</p> <p>3</p> <p>5k Ω</p> <p>GND</p> <p>NC 1</p> <p>NC 2</p> <p>GROUND 3</p> <p>SQUARE WAVE 4</p> <p>TRIANGLE WAVE 5</p> <p>NC 6</p> <p>NC 7</p> <p>NC 14</p> <p>NC 13</p> <p>NC 12</p> <p>V_c 11</p> <p>C₁ 10</p> <p>R₁ 9</p> <p>MODULATION INPUT</p> <p>X502a</p>	
<p>X503</p> <p>LOG ELEMENT</p> <p>LOG ELEMENT</p> <p>LOG ELEMENT</p> <p>LOG RATIO</p> <p>LOG(Z)M</p> <p>LOG(Z)X</p> <p>LOG Y</p> <p>ANTILOG ELEMENT</p> <p>ANTILOG Y(X)</p> <p>REF. 11V</p> <p>OUT 2</p>	<p>X505</p> <p>CURRENT SOURCES</p> <p>R_{EXT B}</p> <p>R_{EXT A}</p> <p>COMPARATOR</p> <p>FLIP-FLOP</p> <p>SINE CONVERTER</p> <p>BUFFER AMPLIFIER</p> <p>REF. 5.4V</p> <p>6</p> <p>7</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>R_{EXT C}</p>	
<p>X506</p> <p>AM INPUT 1</p> <p>V OR OUTPUT 2</p> <p>MULT OUT 3</p> <p>V_c 4</p> <p>TIMING CAPACITOR 5</p> <p>6</p> <p>TIMING RESISTORS 7</p> <p>8</p> <p>MULTIPLIER AND SINE SHAPER</p> <p>VCO</p> <p>CURRENT SWITCHES</p> <p>SYMMETRY ADJ. 16</p> <p>15</p> <p>WAVEFORM ADJ. 14</p> <p>13</p> <p>GROUND 12</p> <p>SYNC OUTPUT 11</p> <p>BYPASS 10</p> <p>FSK INPUT 9</p>	<p>X507</p> <p>V_c 1</p> <p>TIMING CAPACITOR 2</p> <p>3</p> <p>R₁ 4</p> <p>R₂ 5</p> <p>R₃ 6</p> <p>R₄ 7</p> <p>CURRENT SWITCHES</p> <p>VCO</p> <p>A₁</p> <p>A₂</p> <p>TRIANGLEWAVE OUT 14</p> <p>SQUAREWAVE OUT 13</p> <p>V_c 12</p> <p>BIAS 11</p> <p>GROUND 10</p> <p>BINARY KEYING INPUTS 9</p> <p>8</p>	<p>X508</p> <p>MODULATOR OUTPUTS 1</p> <p>2</p> <p>3</p> <p>MODULATOR X INPUTS 4</p> <p>5</p> <p>MODULATOR Y INPUTS 6</p> <p>7</p> <p>WAVEFORM ADJ. 8</p> <p>18 +V_{CC}</p> <p>15</p> <p>TIMING CAPACITOR 14</p> <p>13 FM SYNC AND SWEEP INPUT</p> <p>12 SQUAREWAVE OUTPUT</p> <p>11 BUFFER OUTPUT</p> <p>10 BUFFER INPUT</p> <p>9 VEE</p>

14. CIRCUIT DRAWINGS

X519

Internal circuit diagram for X519. It features two comparators (COMP), a trigger input, a reset input, and a reference voltage input (VREF). The output is connected to an external resistor junction. Pin 1 is GND, pin 2 is TRIGGER, pin 3 is OUTPUT, pin 4 is RESET, pin 5 is VREF, pin 6 is COMP, pin 7 is EXT. RC JUNCTION, and pin 8 is VCC.

X520

Top view circuit diagram for X520. It shows two comparators (COMP 1, COMP 2) and two operational amplifiers (OP AMP 1, OP AMP 2). The circuit includes various input and output pins. Pin 1 is OUT 1, pin 2 is INPUTS 1, pin 3 is INPUTS 2, pin 4 is VCC, pin 5 is INPUTS 2, pin 6 is INPUTS 2, pin 7 is OUT 2, pin 8 is OUT 3, pin 9 is INPUTS 3, pin 10 is INPUTS 3, pin 11 is VEE' GND, pin 12 is INPUTS 4, pin 13 is INPUTS 4, pin 14 is OUT 4.

X522

Pin No.	Connection	Frequency
1	V _{DD}	
2	f _i	
3	mode	
4	V _{SS}	
5	V _{CC}	
6	output Q ₁	f _i
7	output Q ₂	f _i /2
8	output Q ₃	f _i /4
9	output Q ₄	f _i /8
10	output Q ₅	f _i /16
11	output Q ₆	f _i /32
12	output Q ₇	f _i /64
13	output Q ₈	f _i /128
14	output Q ₉	f _i /256

X523

Block diagram for X523. It consists of a 12-bit CMOS D/A converter, a 12-bit DAC REGISTER, a ROM & DECODER, and a 9-bit LATCH. The D/A converter has an input V_{IN} (pin 17) and an output I_{OUT} (pin 1) connected to a resistor R_{FE} (pin 18). The DAC REGISTER has a V_{DD} input (pin 16) and a DGND input (pin 3). The ROM & DECODER has an HBEN input (pin 4) and a D0 input (pin 13). The 9-bit LATCH has a WR input (pin 14) and a LBEN input (pin 15). The D/A converter also has a D8 input (pin 5) and a D0 input (pin 13).

X701

Detailed circuit diagram for X701. It shows a complex multi-stage circuit with multiple transistors and resistors. The circuit is powered by +12V (pin 4) and +7V (pin 11). The output is taken from pin 8. Other pins include 12, 13, 14, 15, and 16.

X702

Detailed circuit diagram for X702. It shows a complex multi-stage circuit with multiple transistors and resistors. The circuit is powered by +12V (pin 4) and +7V (pin 11). The output is taken from pin 8. Other pins include 12, 13, 14, 15, and 16.

X705

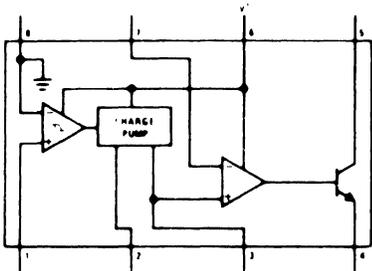
Circuit diagram for X705. It features an oscillator (OSC) and an amplifier (A1). The oscillator has a timing capacitor (pin 2) and a timing resistor (pin 4). The amplifier has a triangle output (pin 8) and a square wave output (pin 7). The circuit is powered by V₊ (pin 1) and V₋ (pin 6). A bias input (pin 5) is also shown.

X706

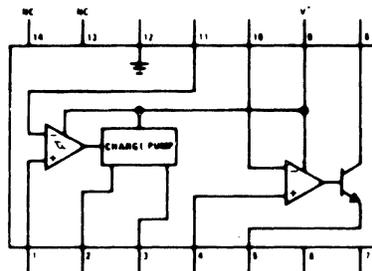
Circuit diagram for X706. It shows a complex circuit with transistors (Q₁, Q₂, Q₃), resistors (10K, 20K, 400, 6K, 100, 3K), and diodes (D₁, D₂). The circuit is powered by V₊ (pin 5) and V₋ (pin 4). It includes a slow RC input (pin 8) and a fast RC input (pin 1).

14. CIRCUIT DRAWINGS

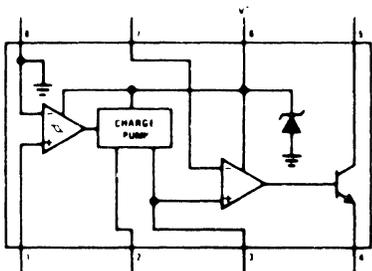
X901



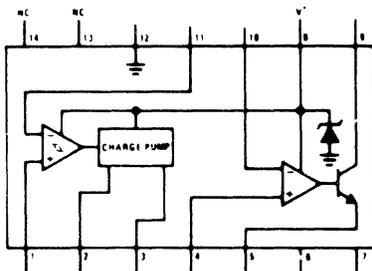
CKT. VARIATION A



CKT. VARIATION B

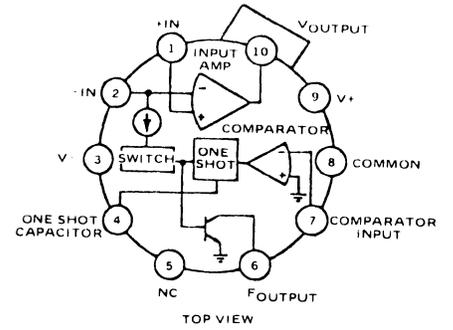


CKT. VARIATION C

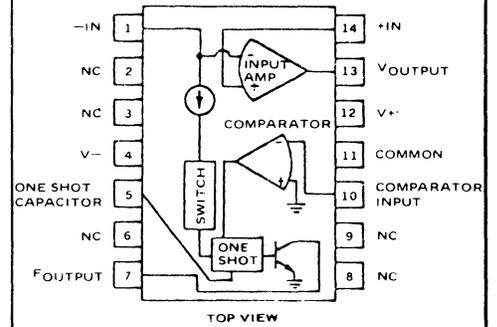


CKT. VARIATION D

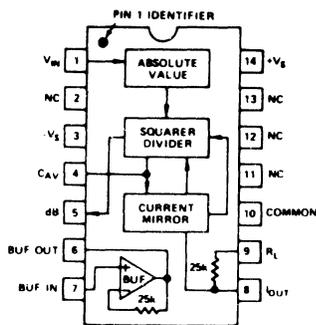
X911



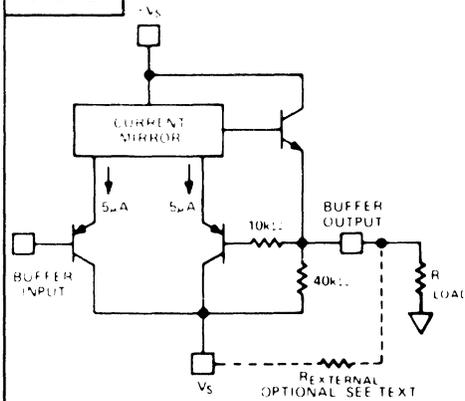
X912



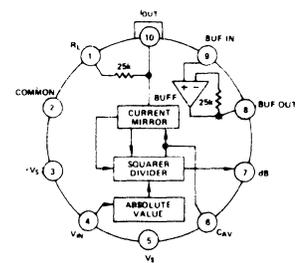
X914



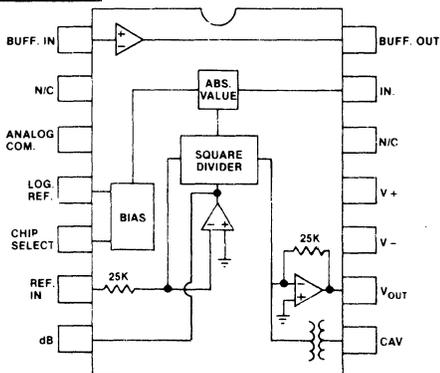
X916



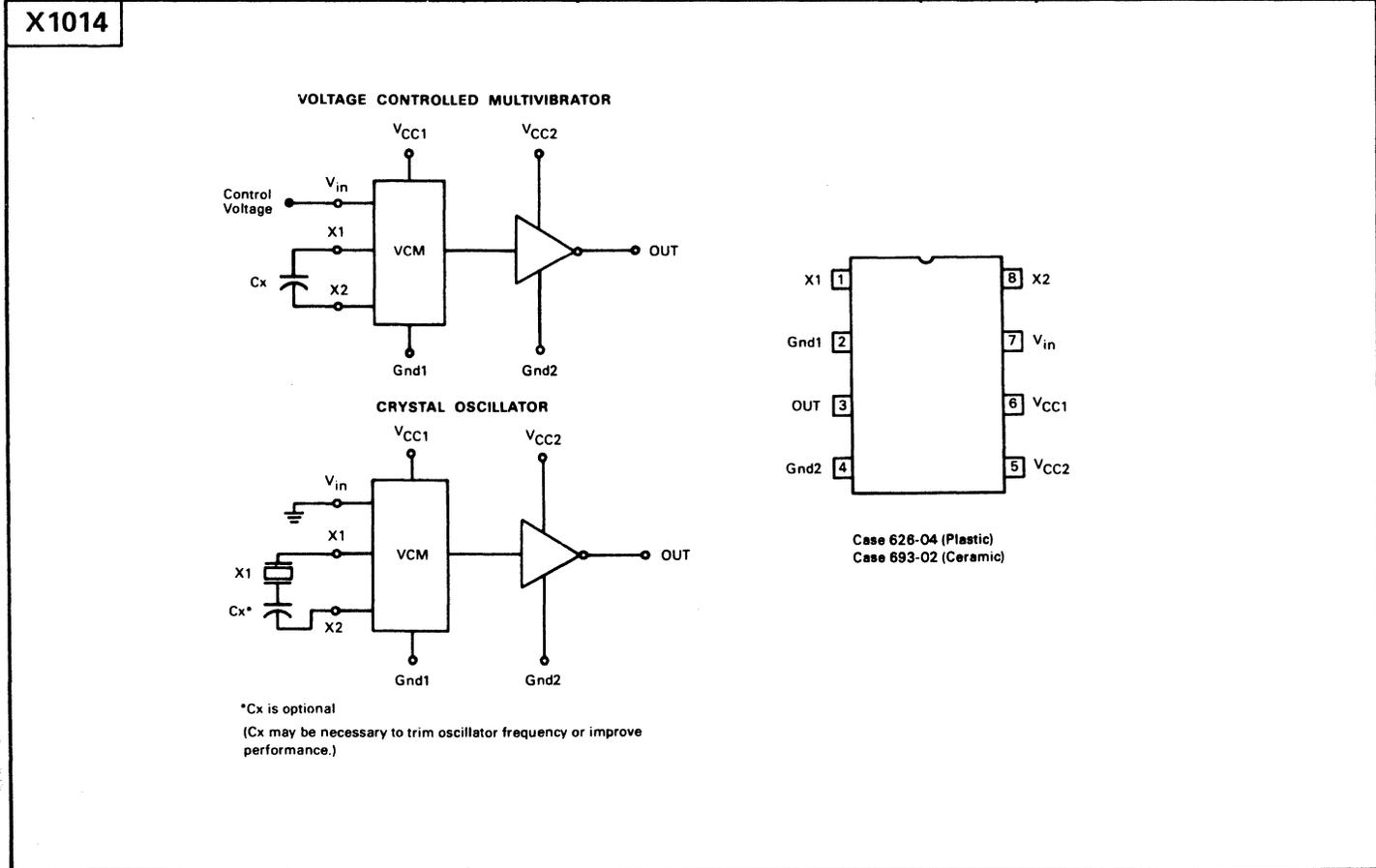
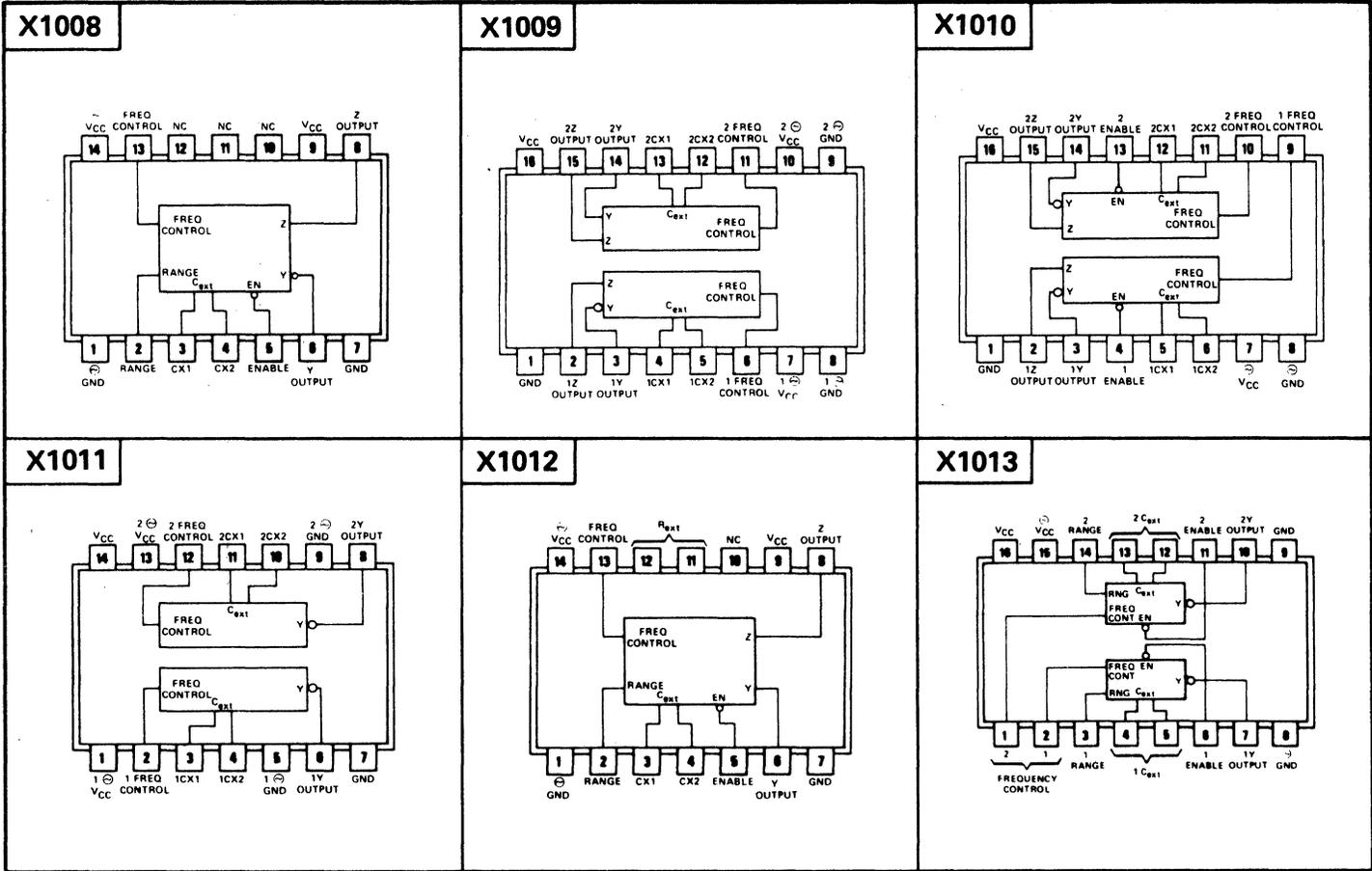
X917



X919

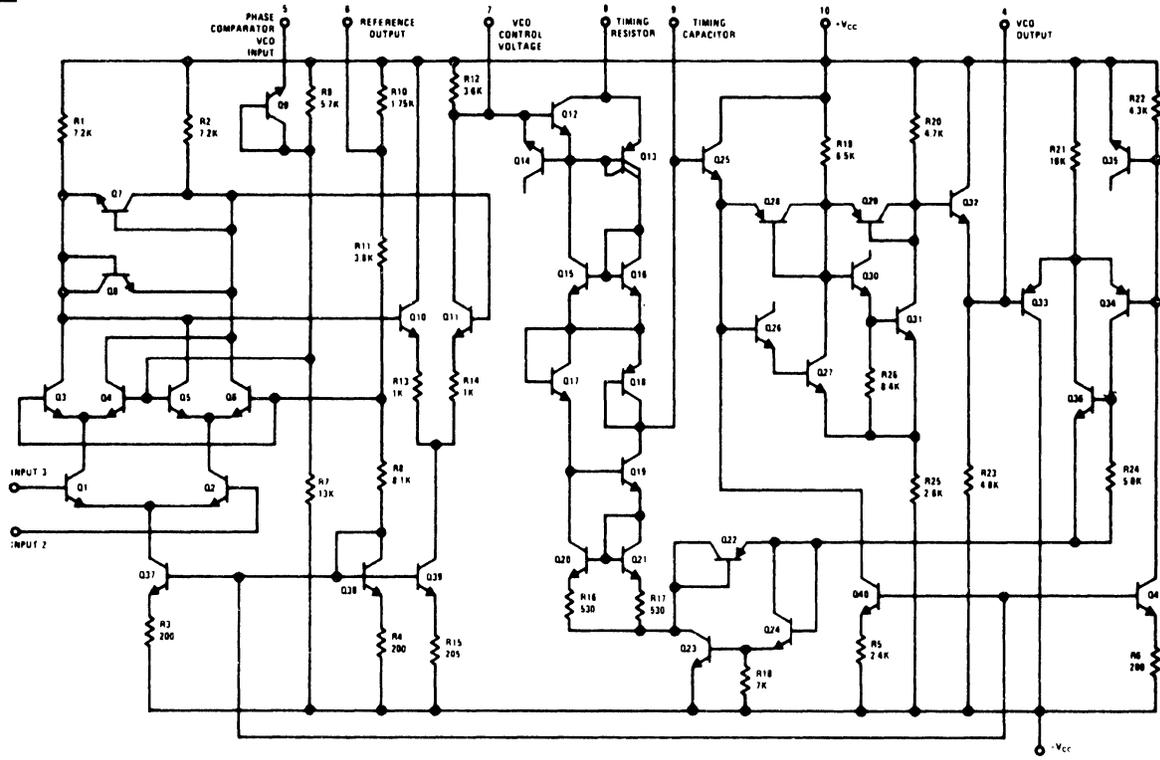


14. CIRCUIT DRAWINGS

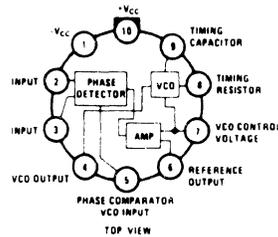


14. CIRCUIT DRAWINGS

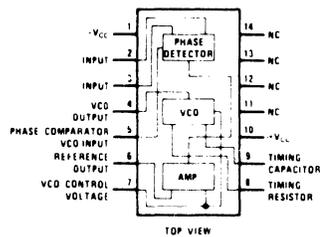
X1015



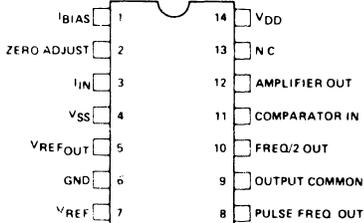
Metal Can Package



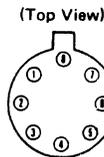
Dual-In-Line Package



X1102



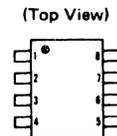
X1115



X1115

NOTE: PIN 4 CONNECTED TO CASE

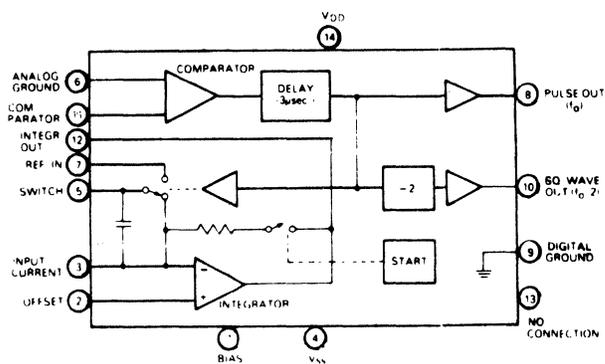
X1116



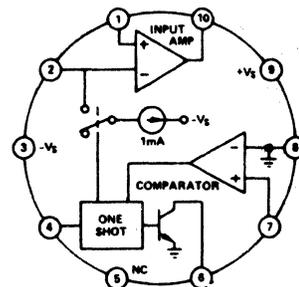
X1116

14. CIRCUIT DRAWINGS

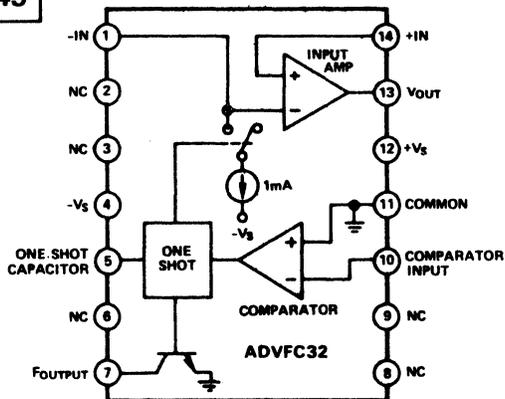
X1136



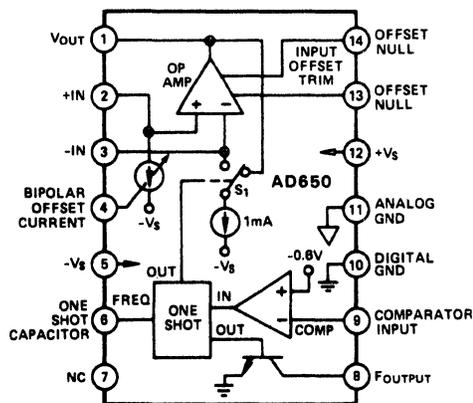
X1143



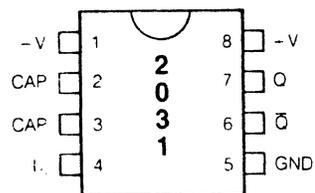
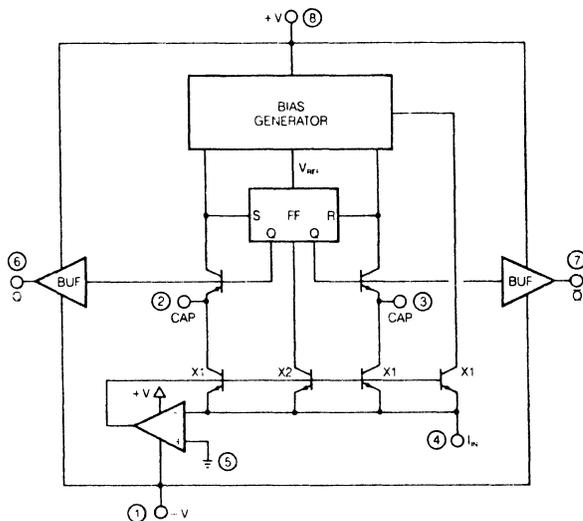
X1145



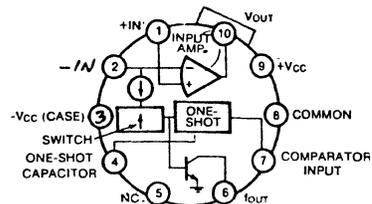
X1146



X1147

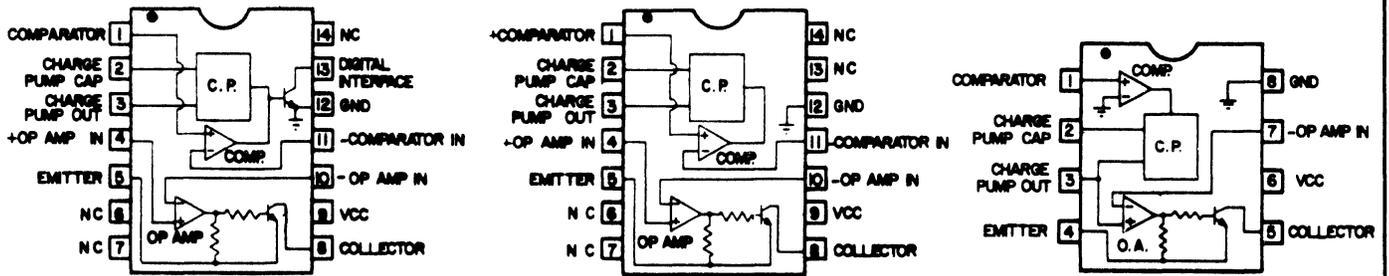


PIN OUT (TOP VIEW)

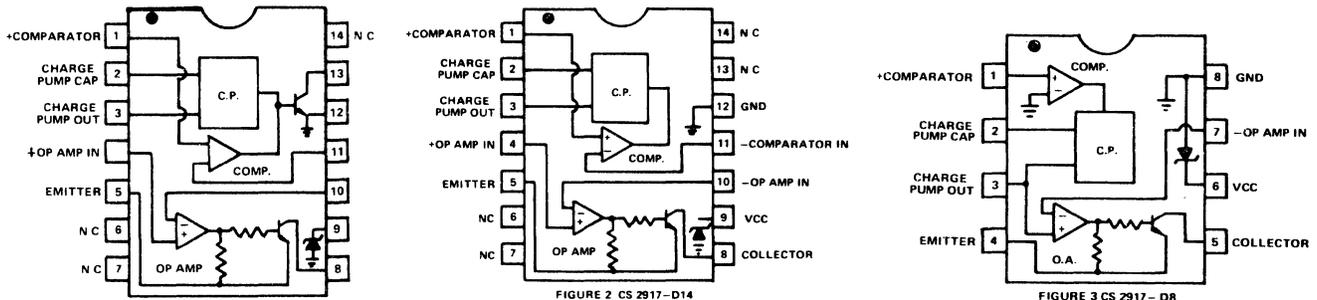


14. CIRCUIT DRAWINGS

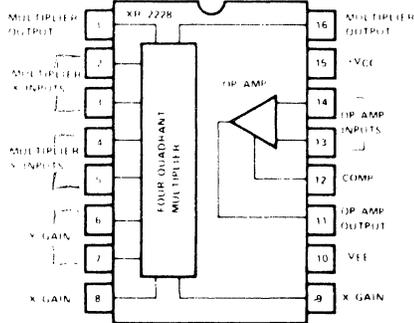
X1204



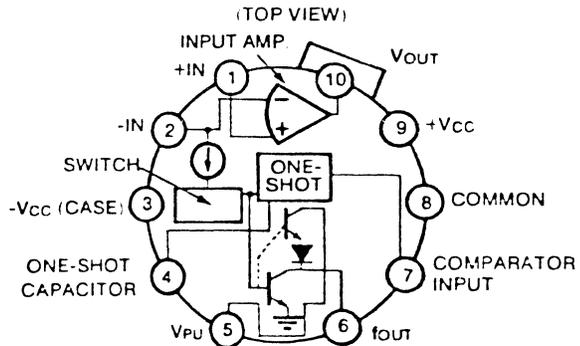
X1205



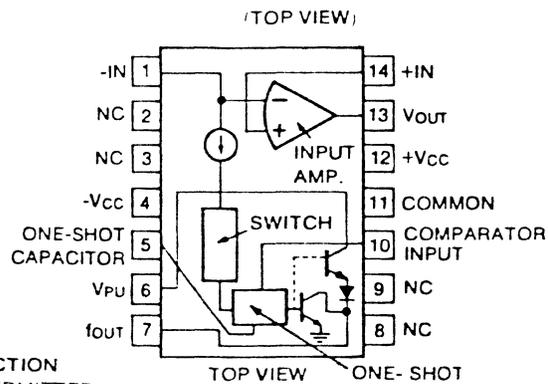
X1206



X1207

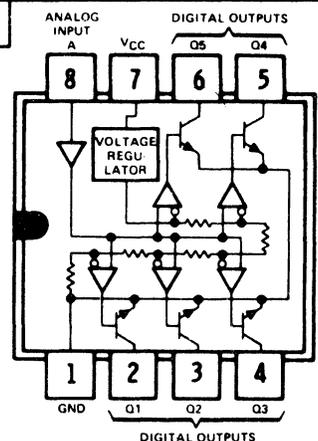


X1208

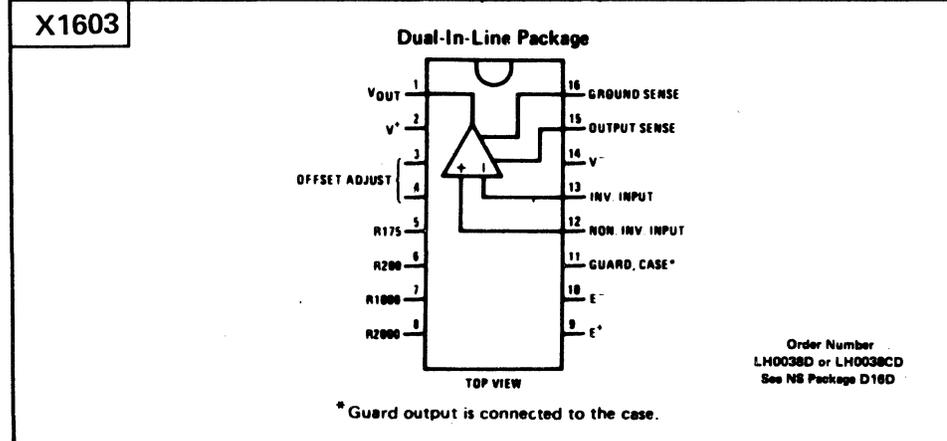
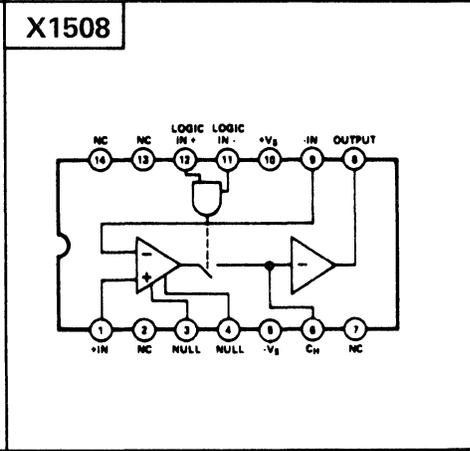
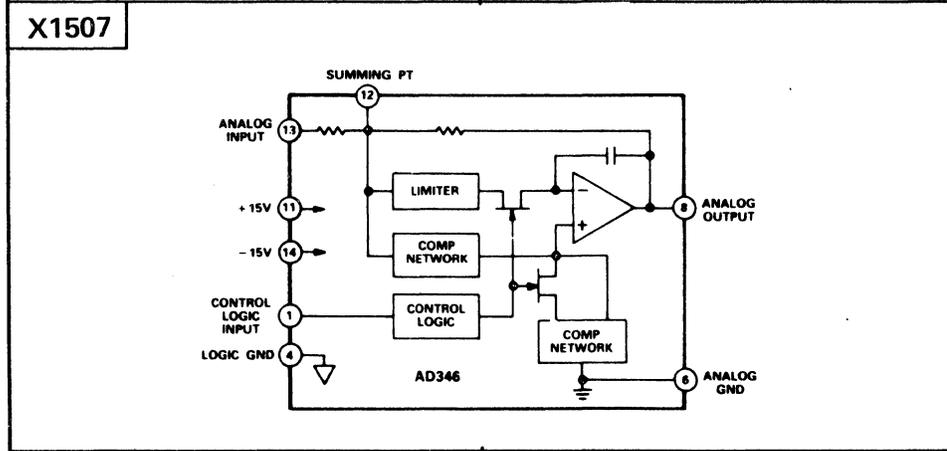
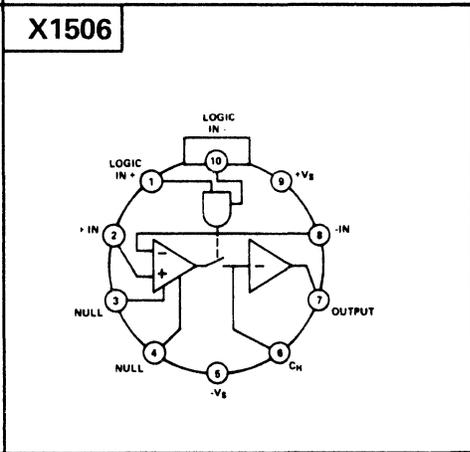
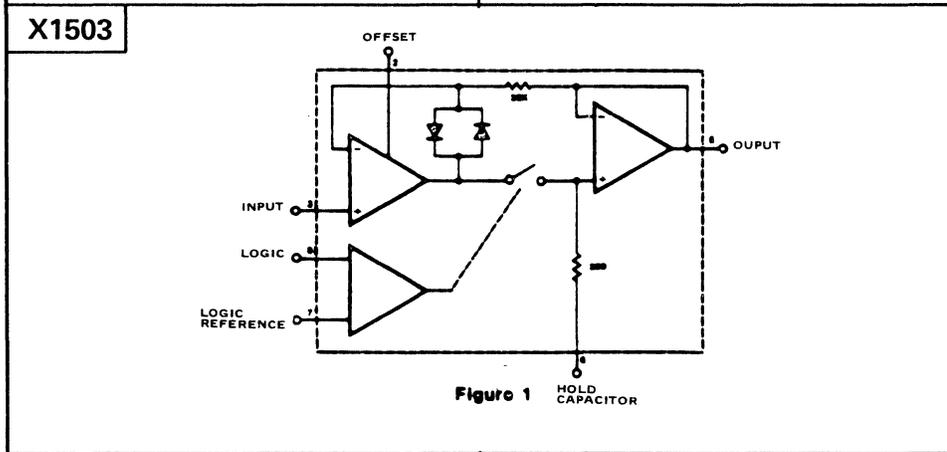
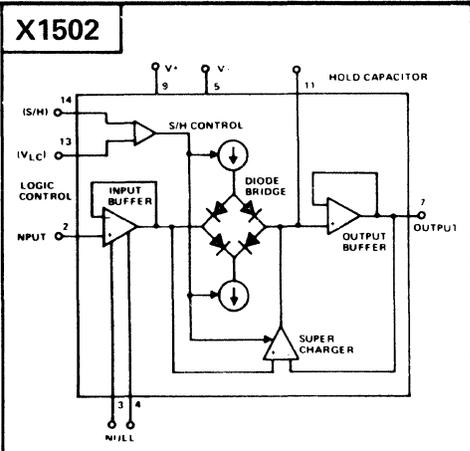
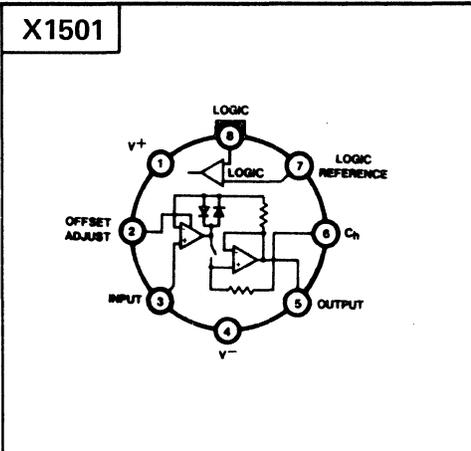
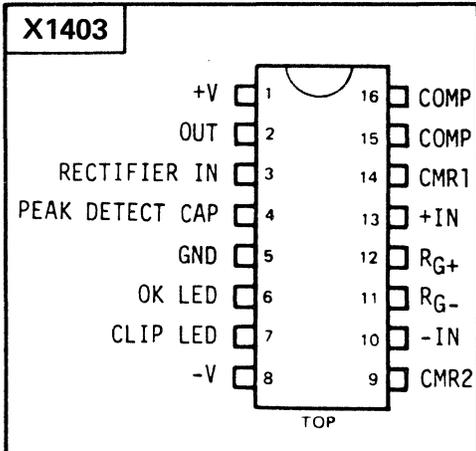


NC = NO INTERNAL CONNECTION
EXTERNAL CONNECTION PERMITTED

X1402

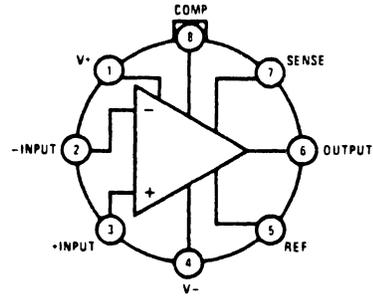
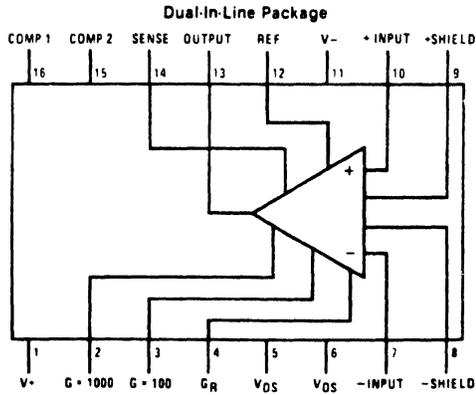


14. CIRCUIT DRAWINGS

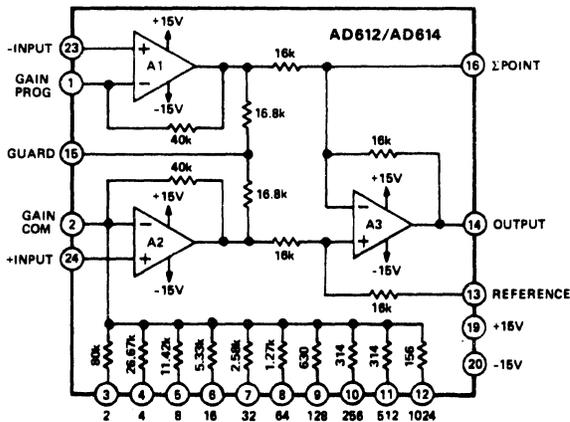


14. CIRCUIT DRAWINGS

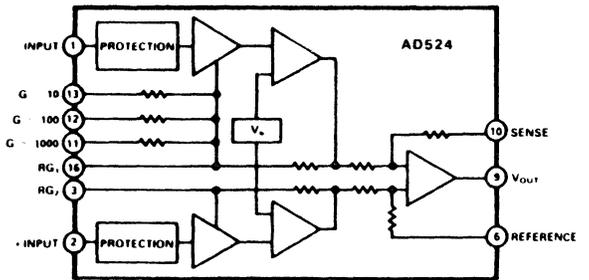
X1604



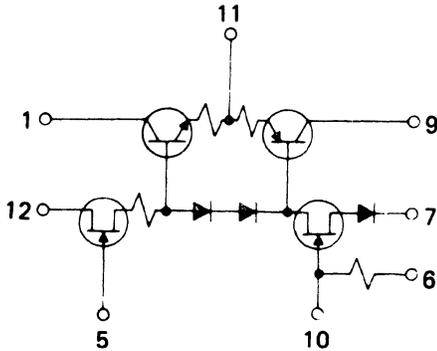
X1605



X1606



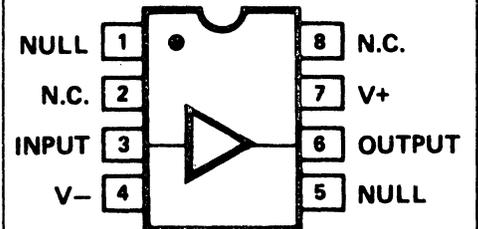
X1806



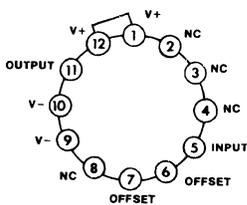
X1807

PIN CONNECTIONS	
1-5	NO CONNECTION
6	BIAS
7	OUTPUT
8	NO CONNECTION
9	+ Vcc
10-15	NO CONNECTION
16	BIAS
17-18	NO CONNECTION
19	INPUT
20	NO CONNECTION
21	- Vcc
22-24	NO CONNECTION

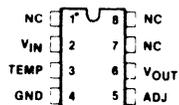
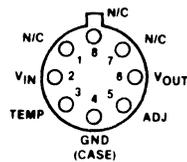
X1809



X1810

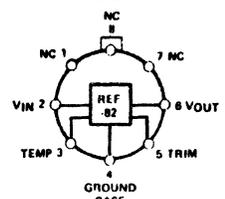
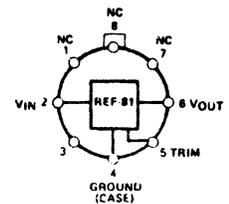


X1901



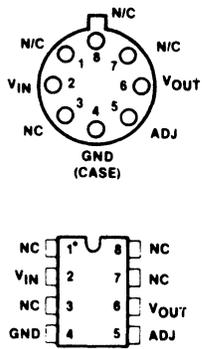
8 PIN PLASTIC MINI DIP

X1902

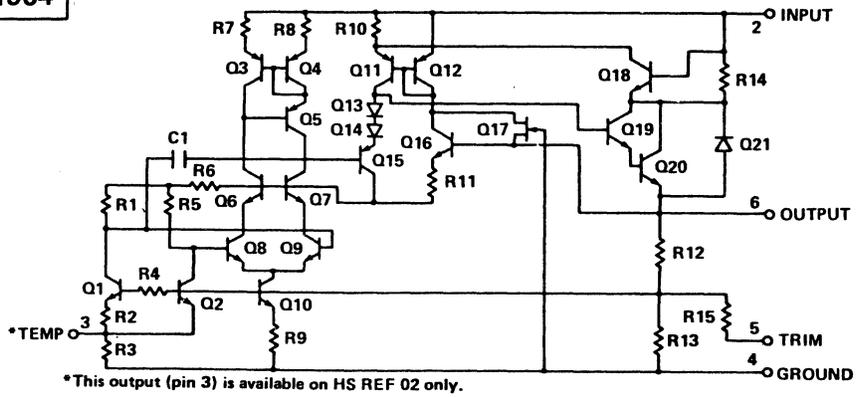


14. CIRCUIT DRAWINGS

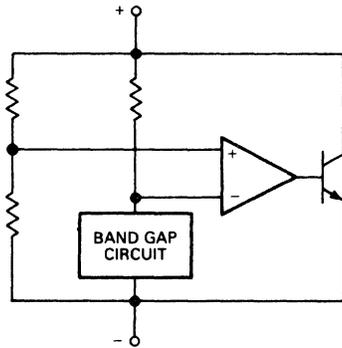
X1903



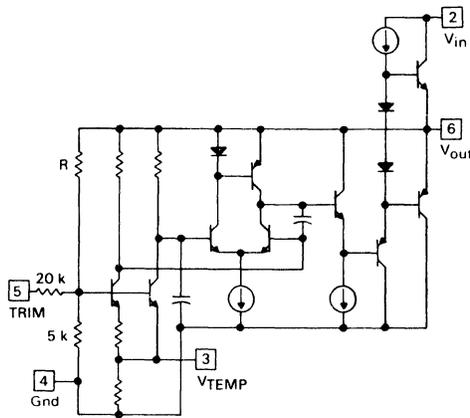
X1904



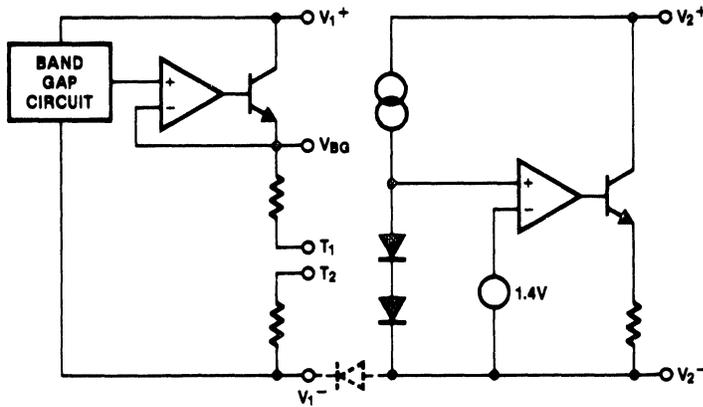
X1905



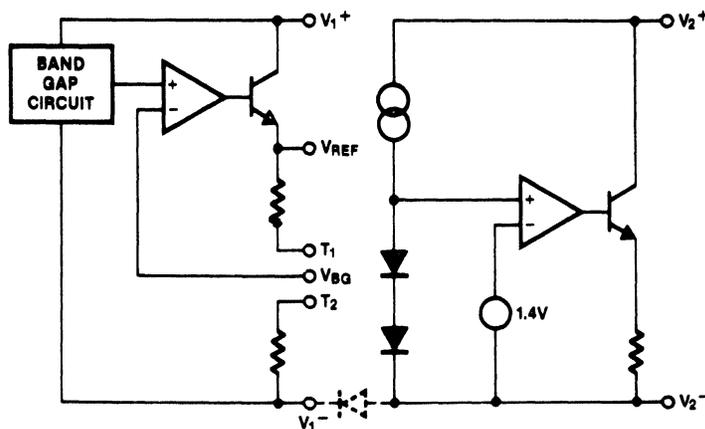
X1906



X1907

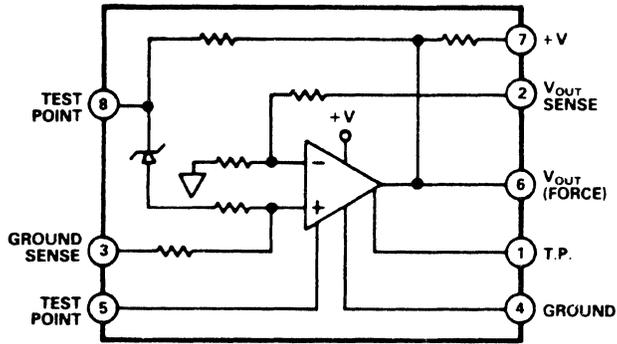


X1908

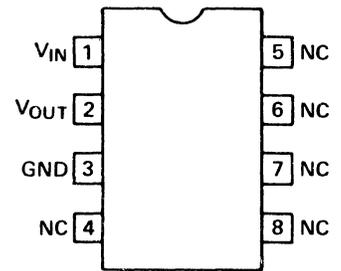


14. CIRCUIT DRAWINGS

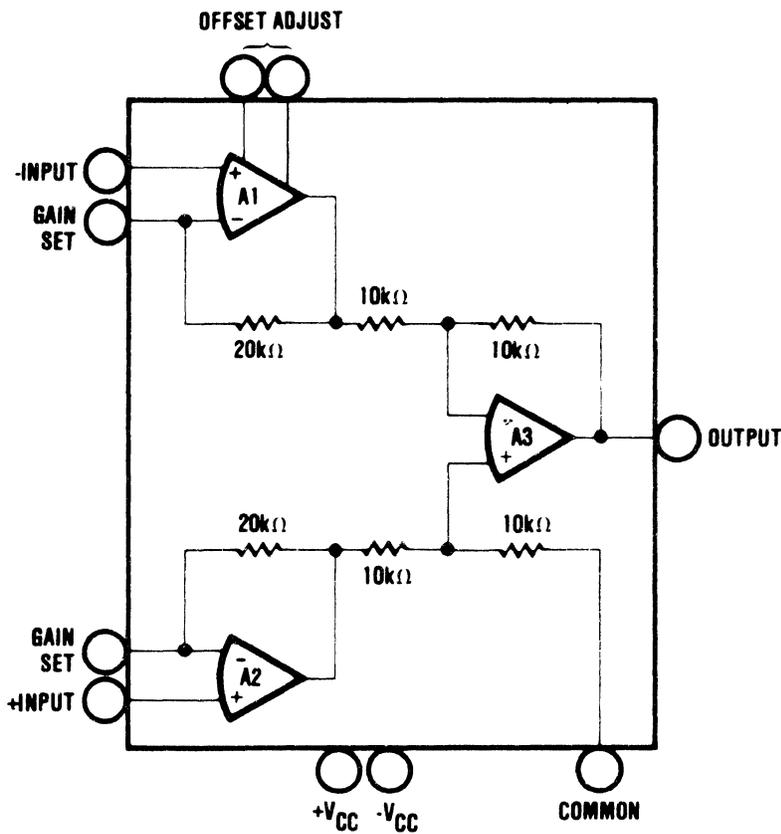
X1909



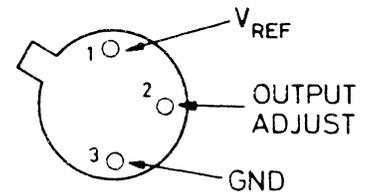
X1911



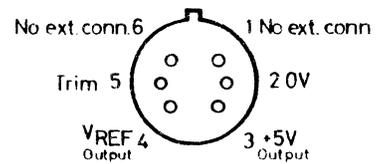
X1912



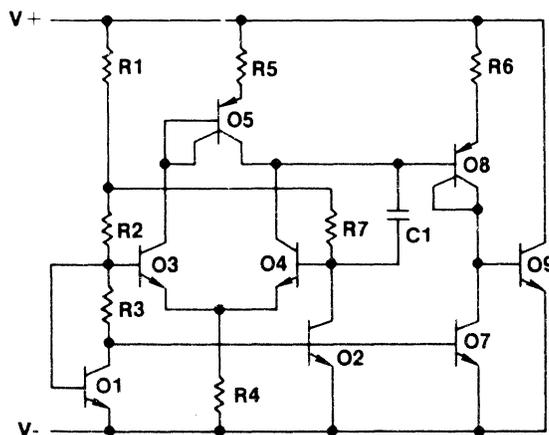
X1913



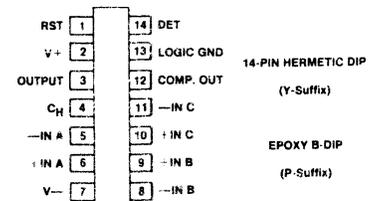
X1914



X1915

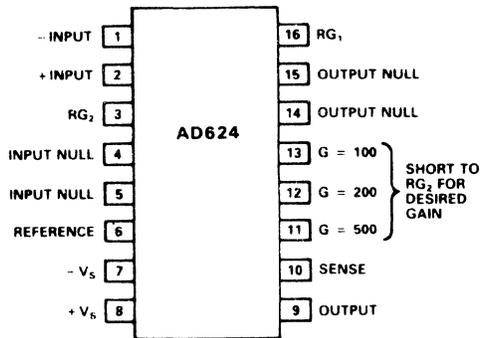
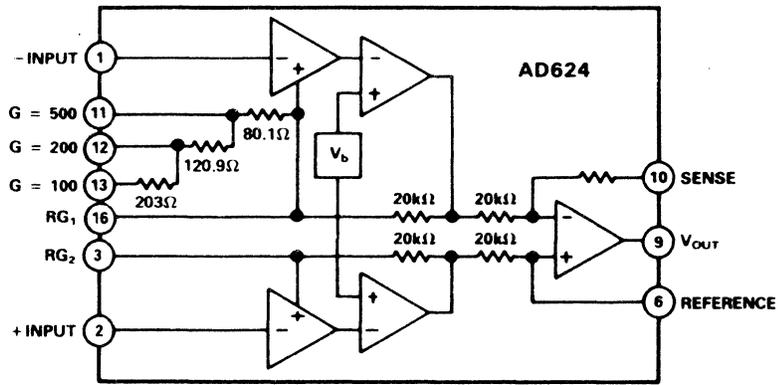


X1916

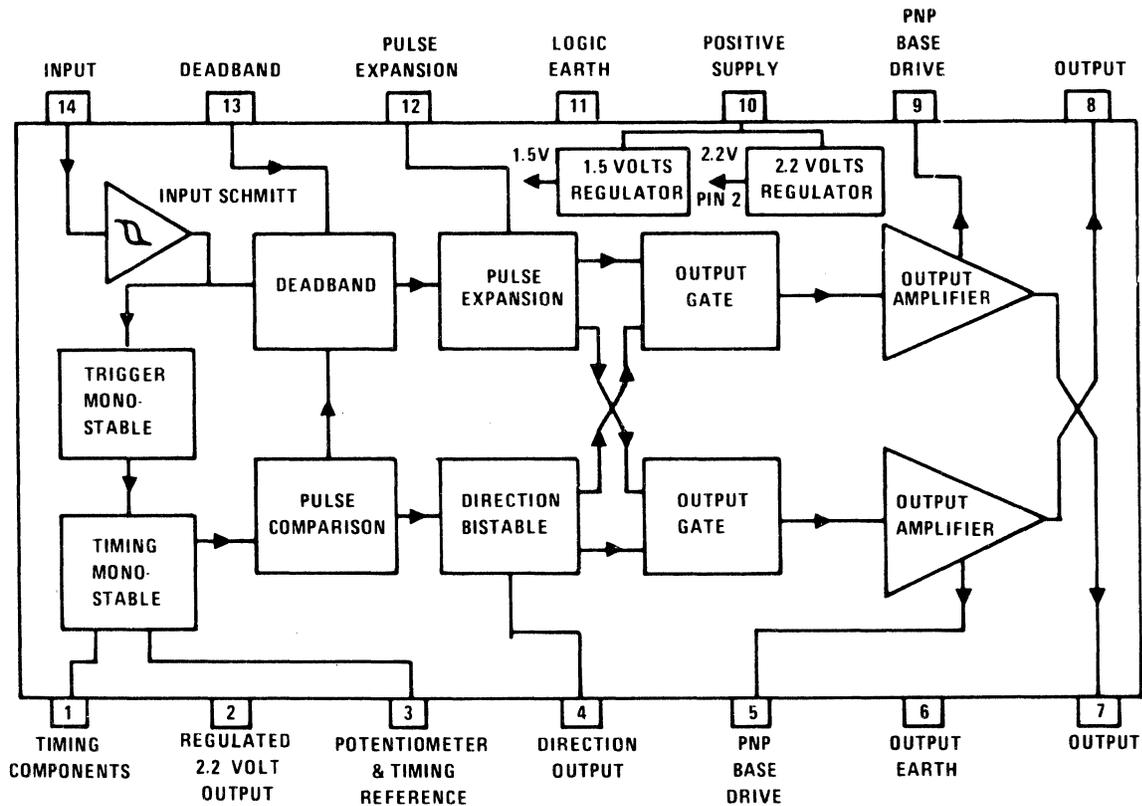


14. CIRCUIT DRAWINGS

X1917

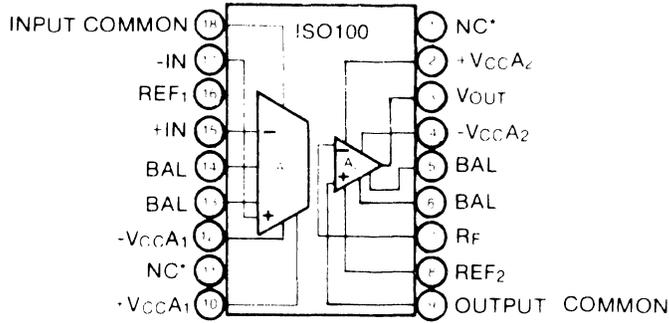


X2001

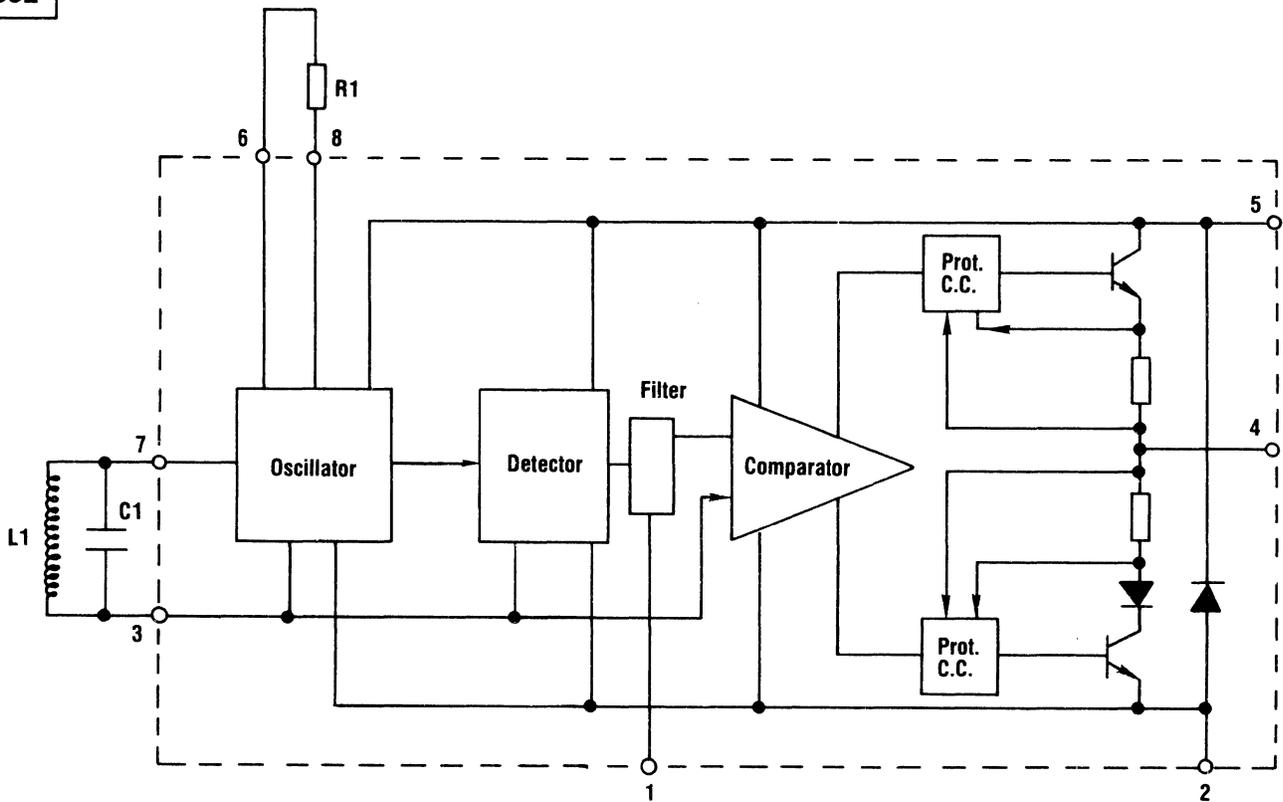


14. CIRCUIT DRAWINGS

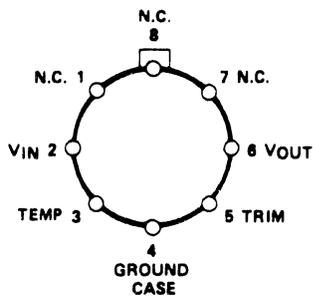
X2103



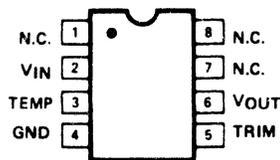
X2302



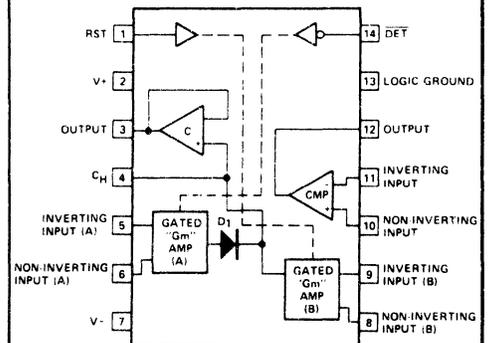
X2403



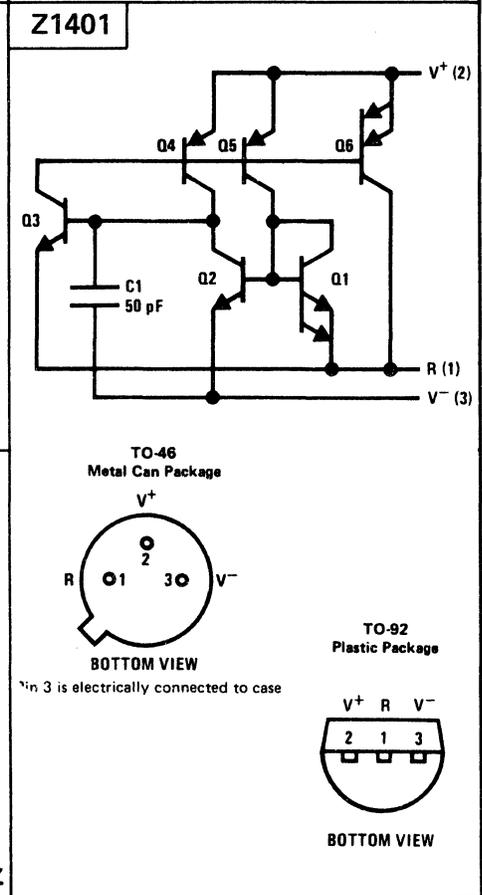
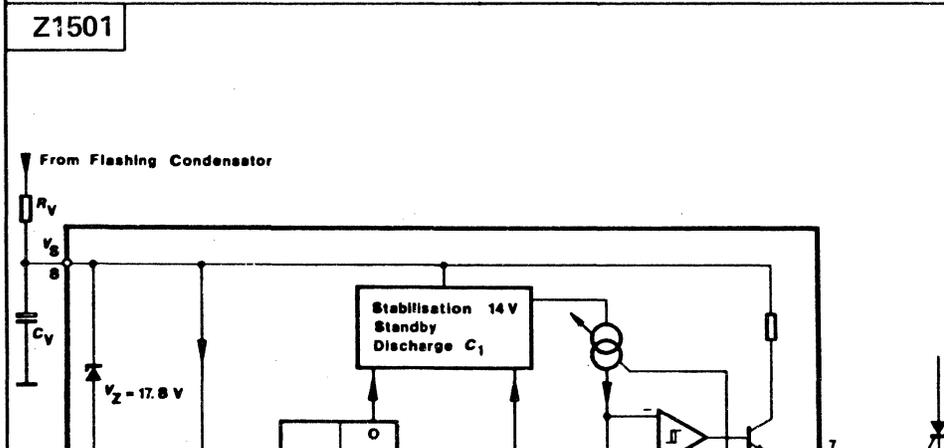
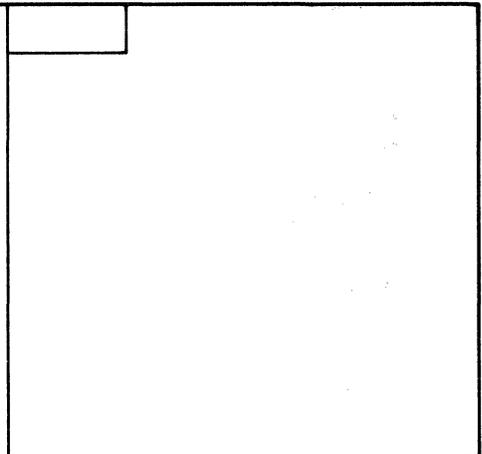
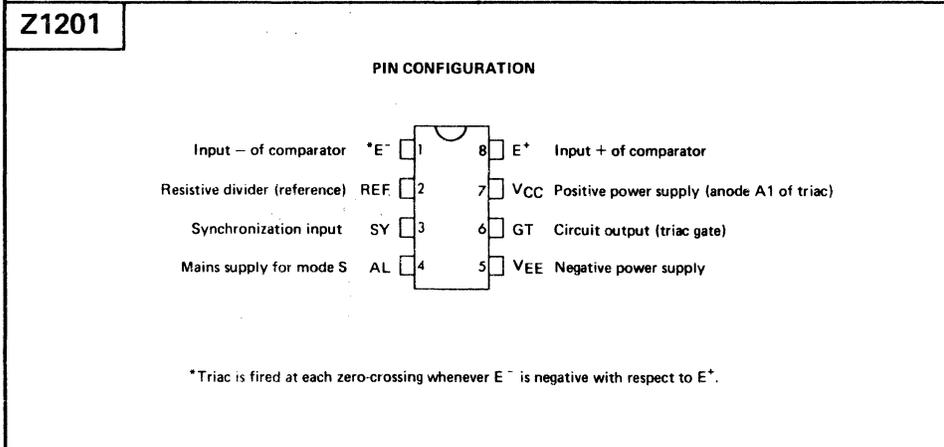
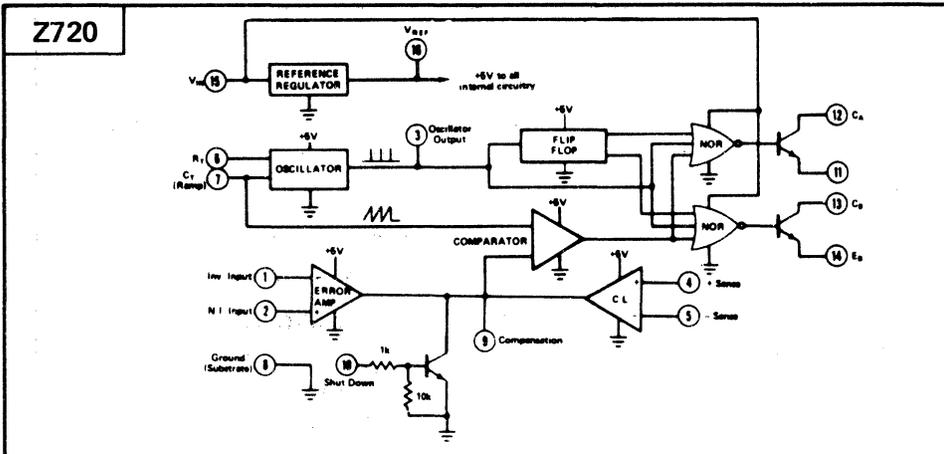
X2404



X2405

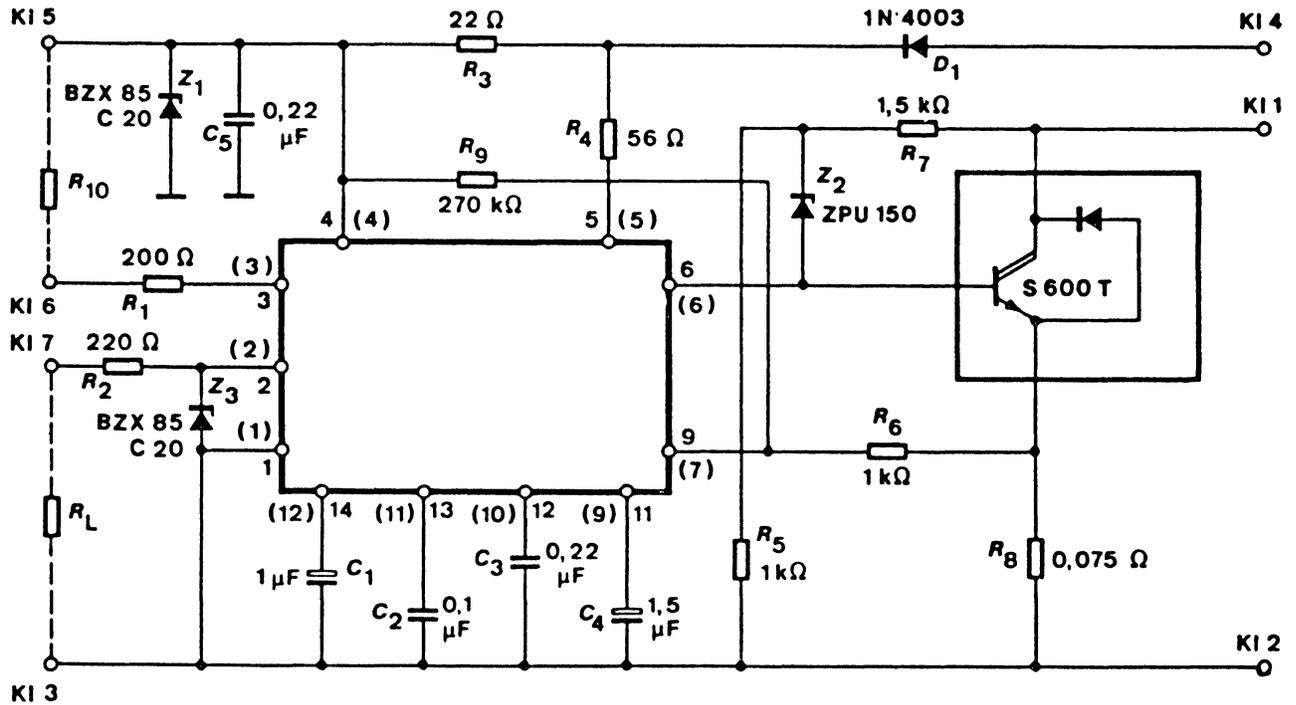


14. CIRCUIT DRAWINGS

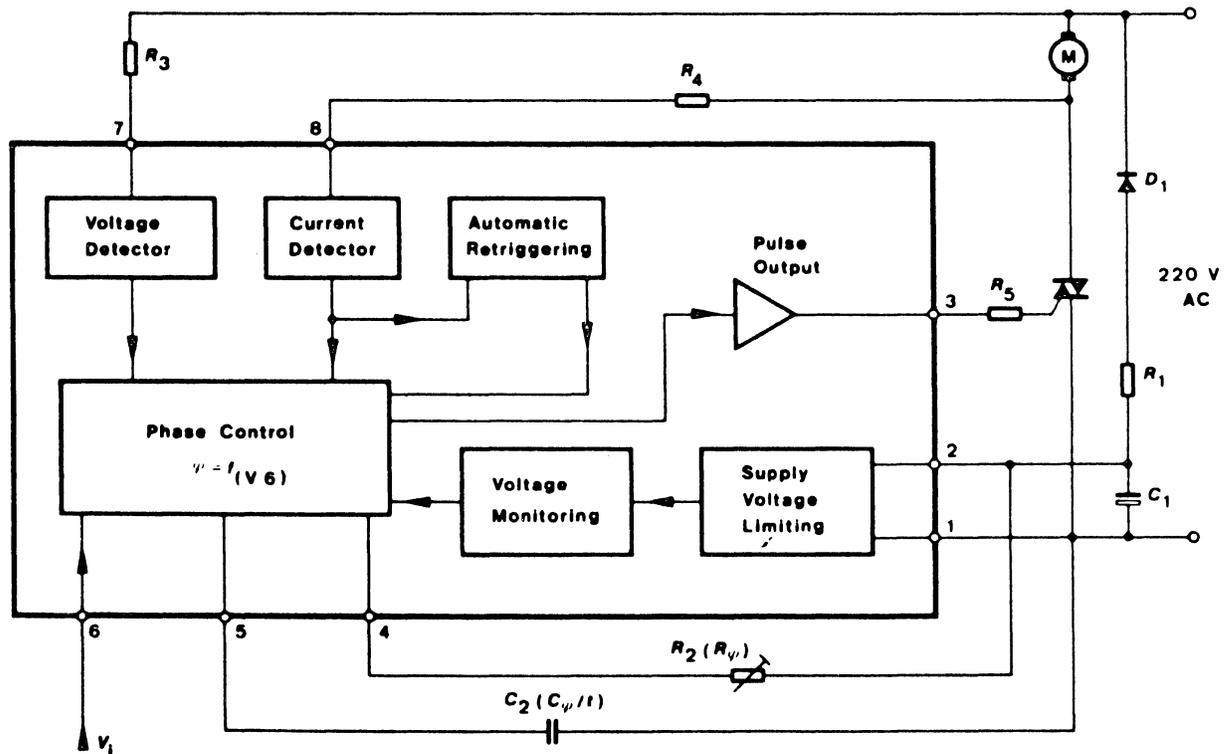


14. CIRCUIT DRAWINGS

Z1502

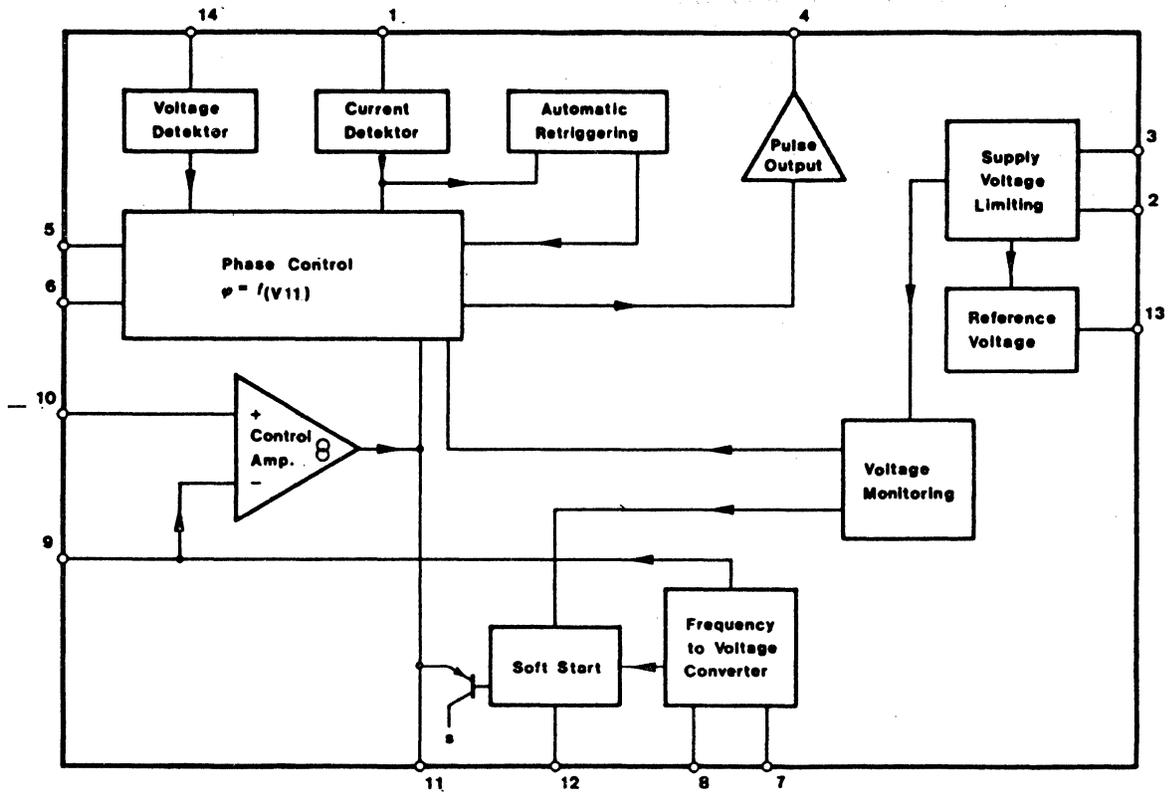


Z1503

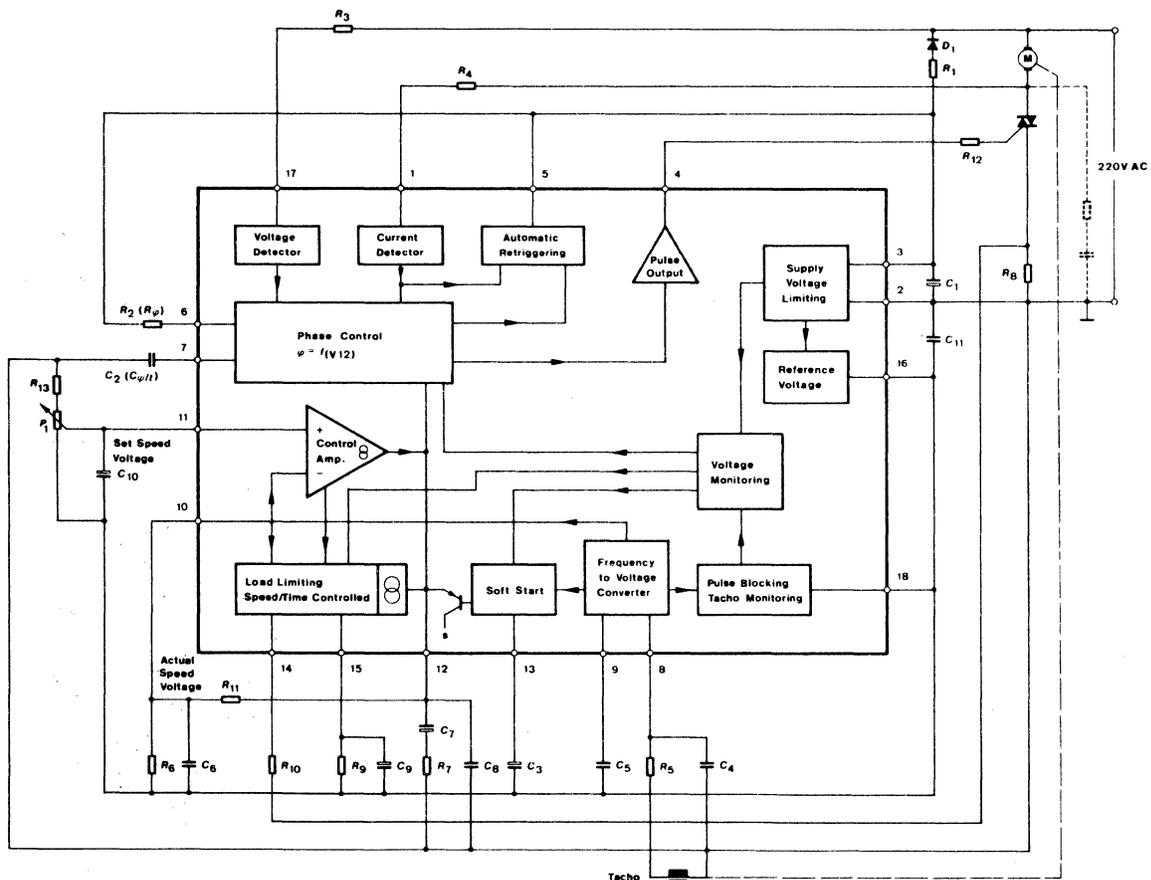


14. CIRCUIT DRAWINGS

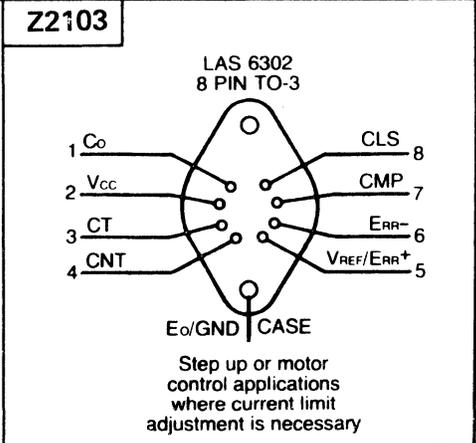
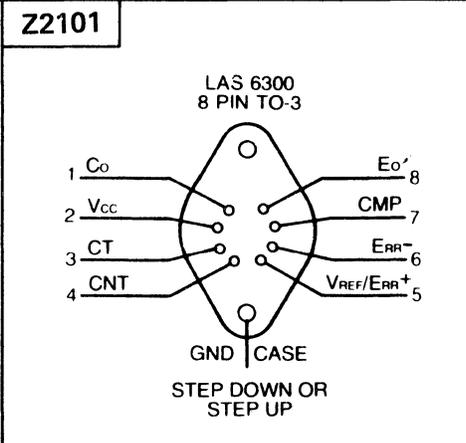
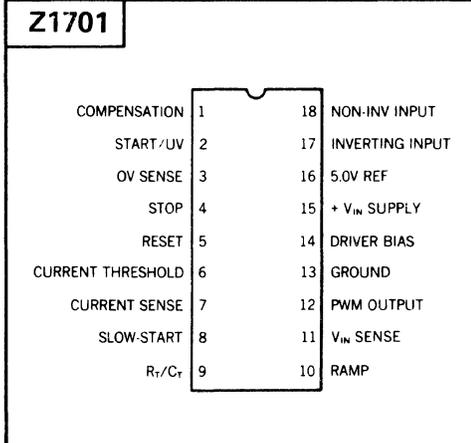
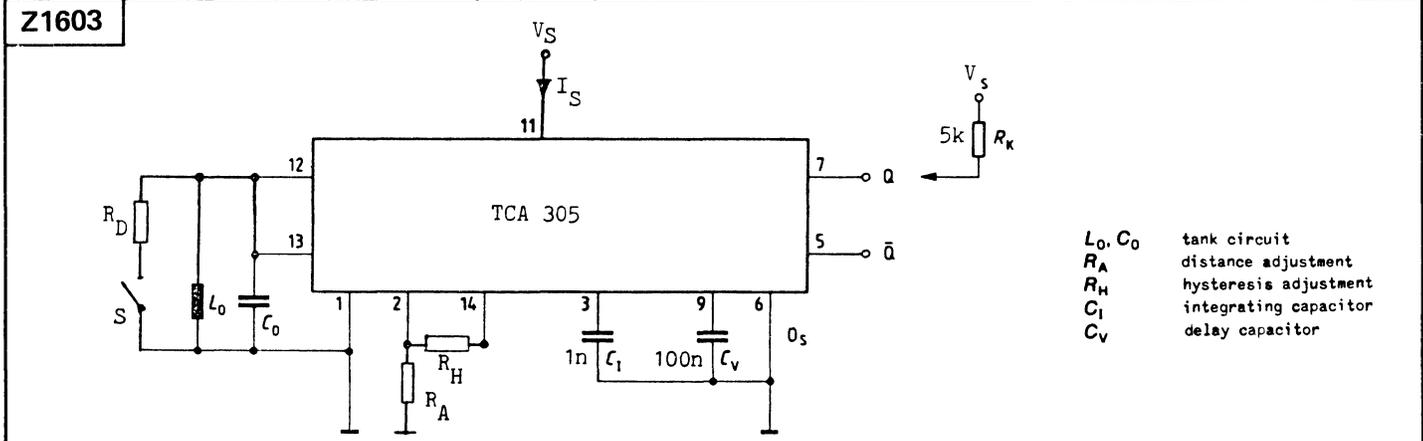
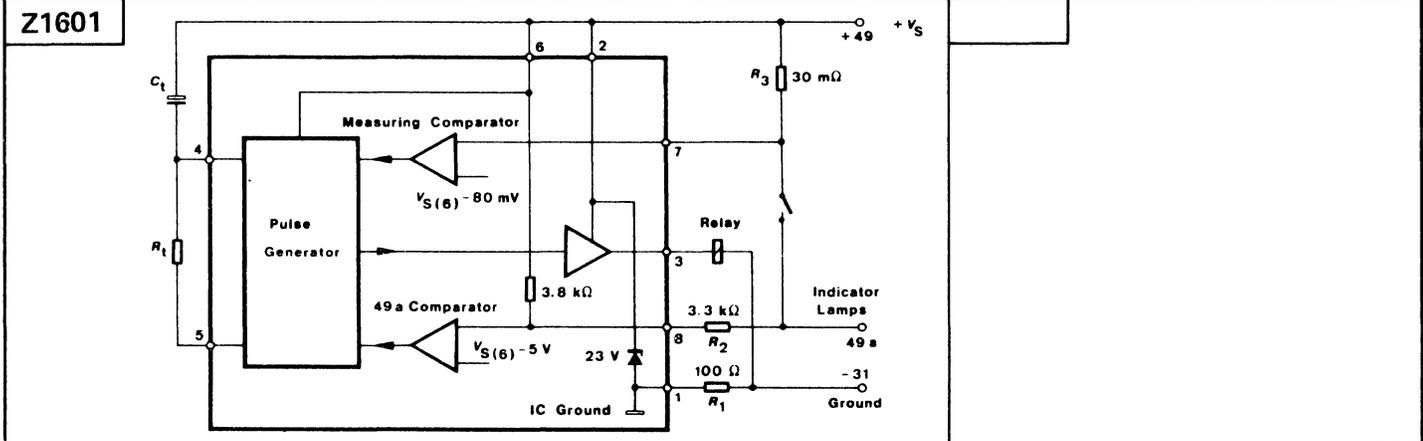
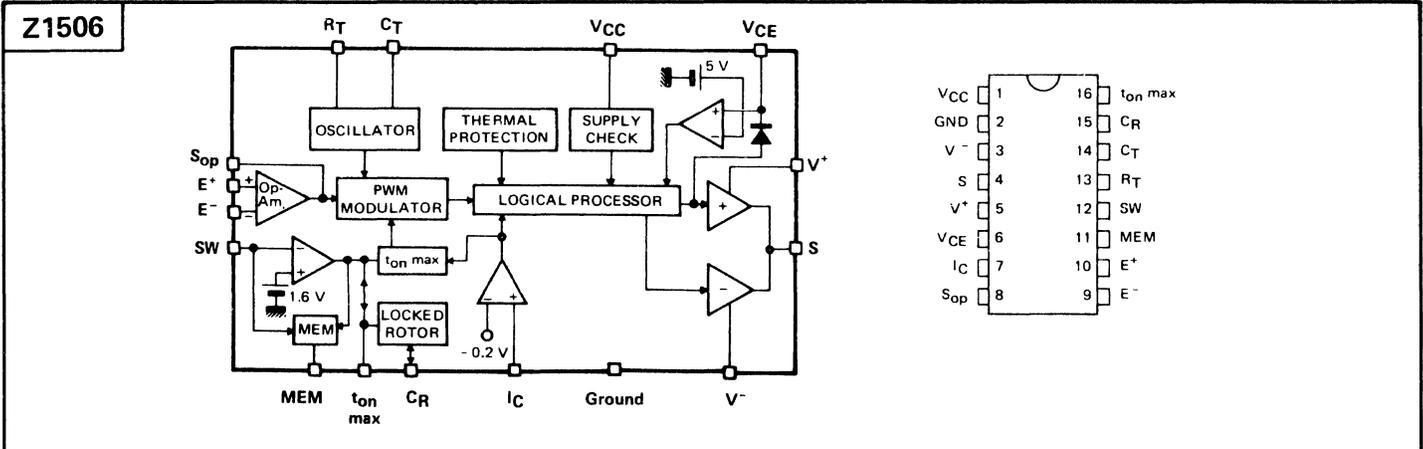
Z1504



Z1505

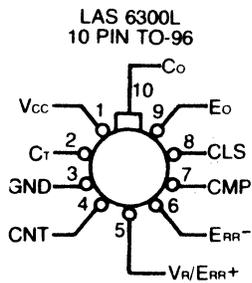


14. CIRCUIT DRAWINGS



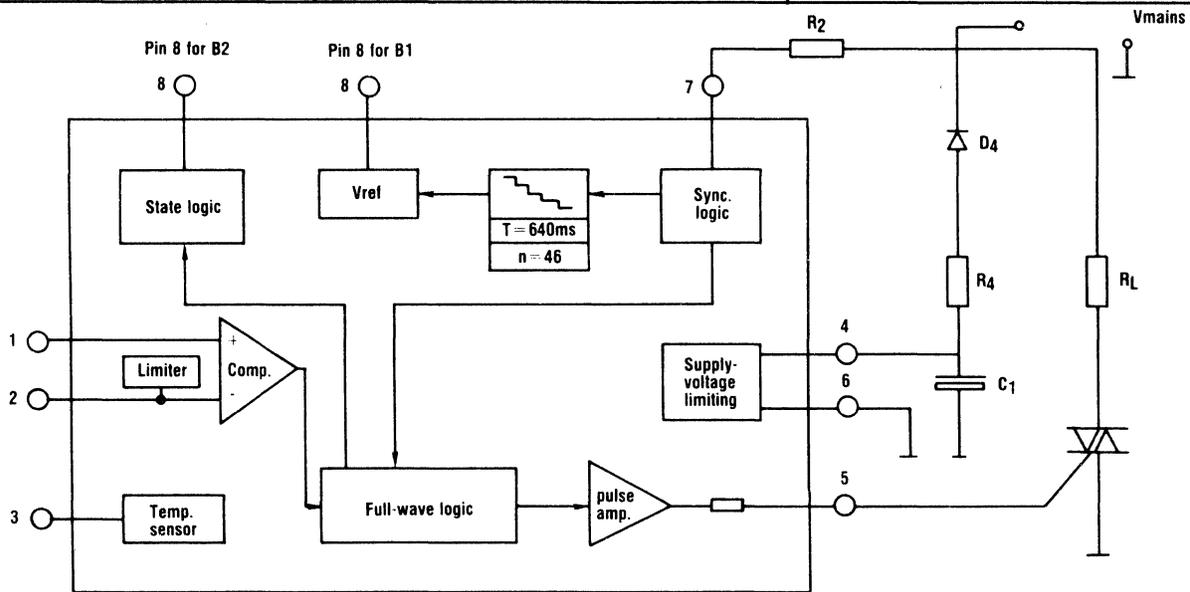
14. CIRCUIT DRAWINGS

Z2104

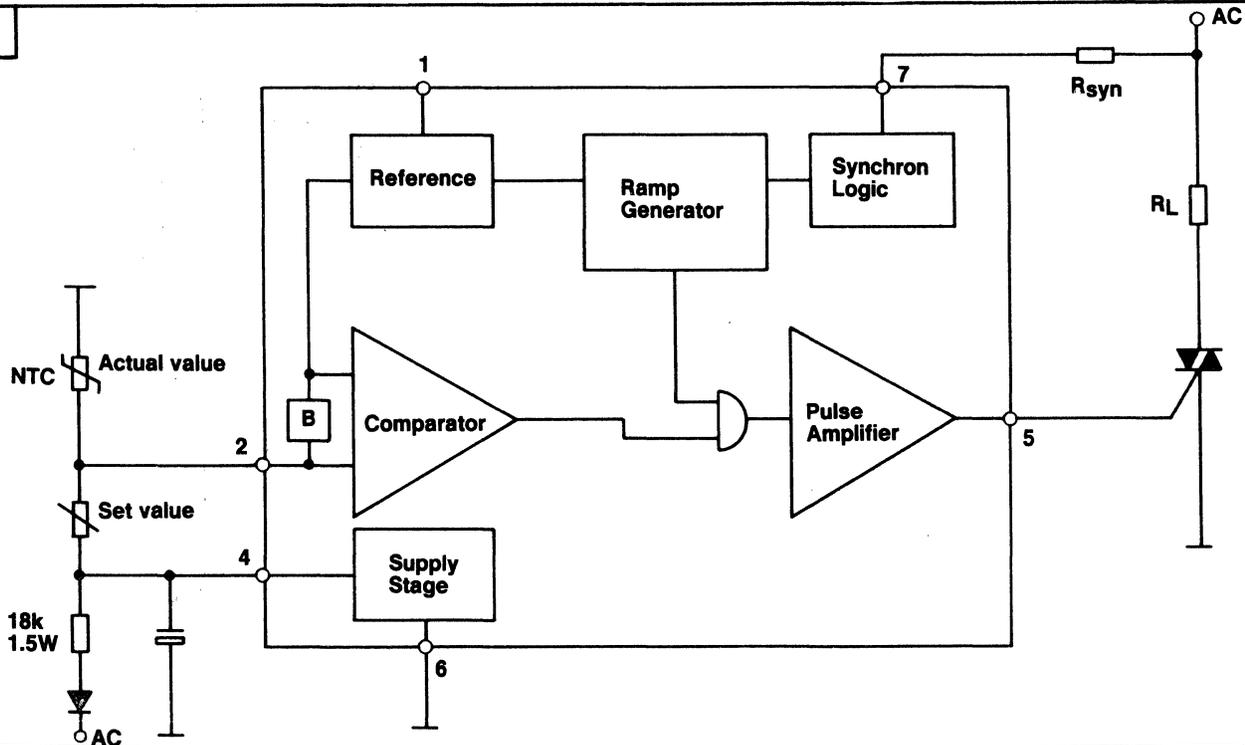


Low current applications
or driving power
devices (see
applications)

Z2106

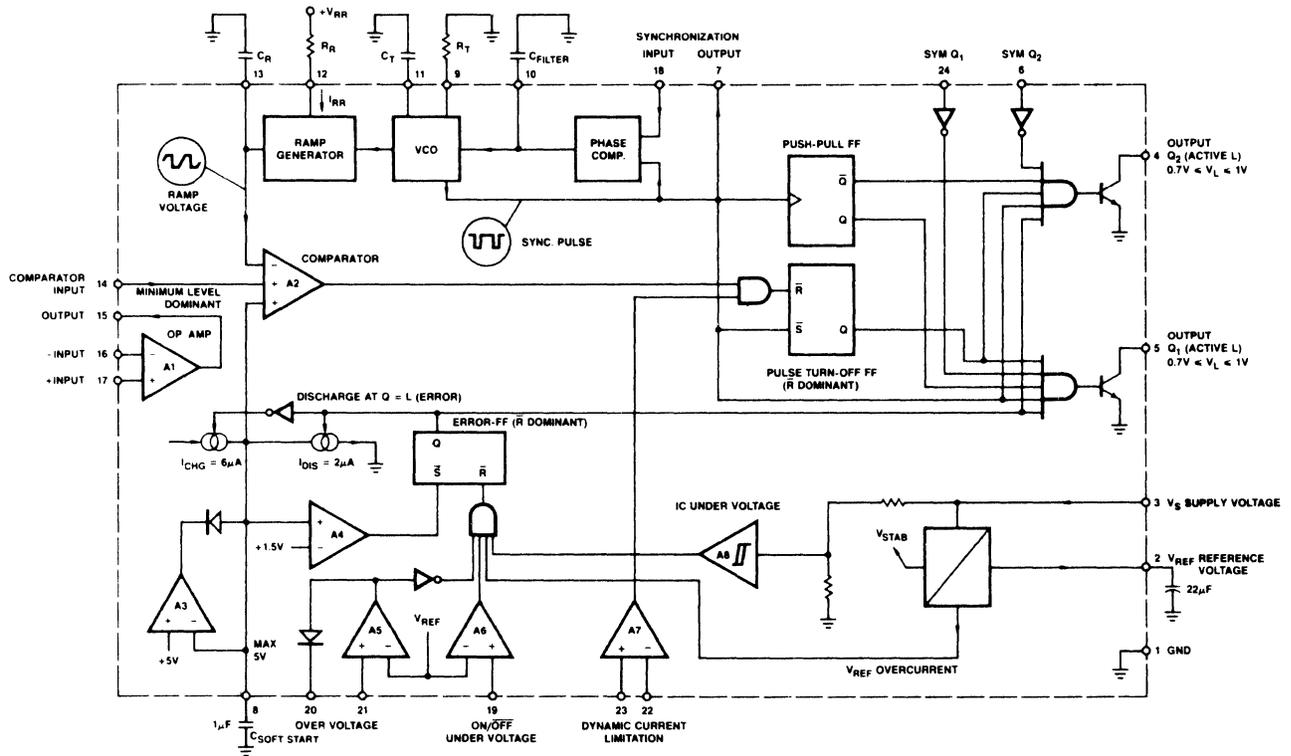


Z2107

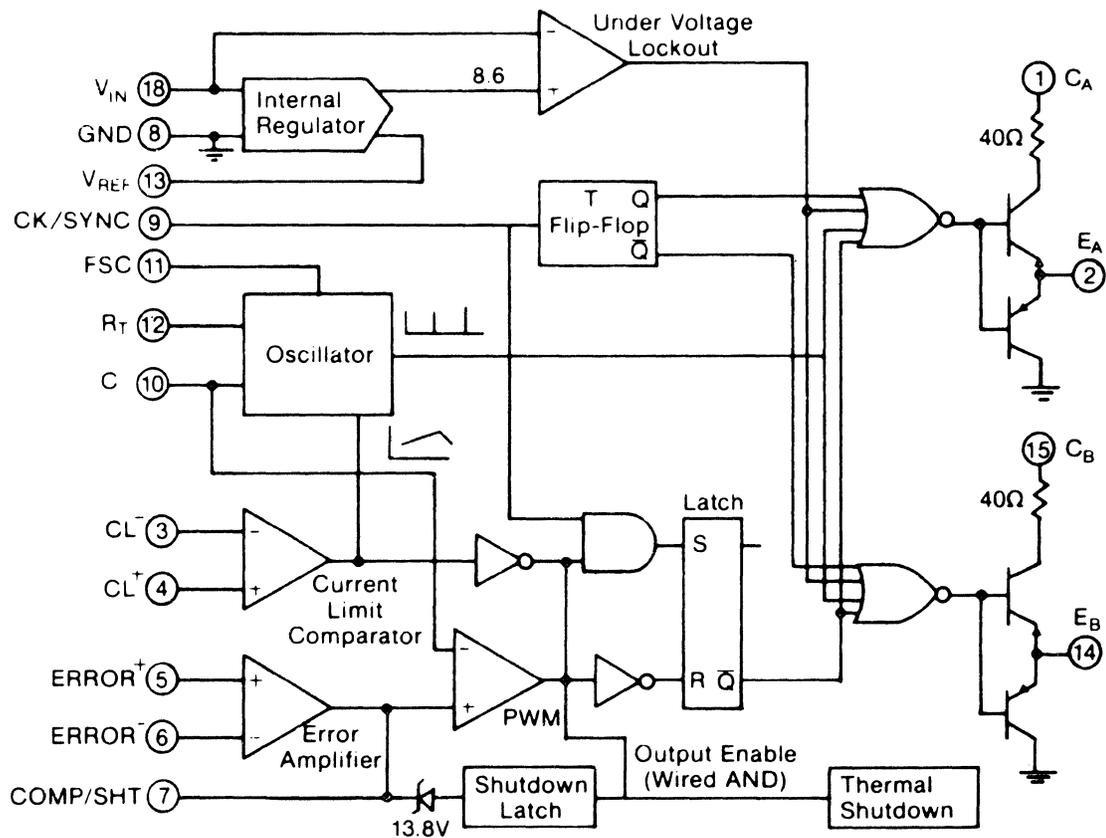


14. CIRCUIT DRAWINGS

Z2108

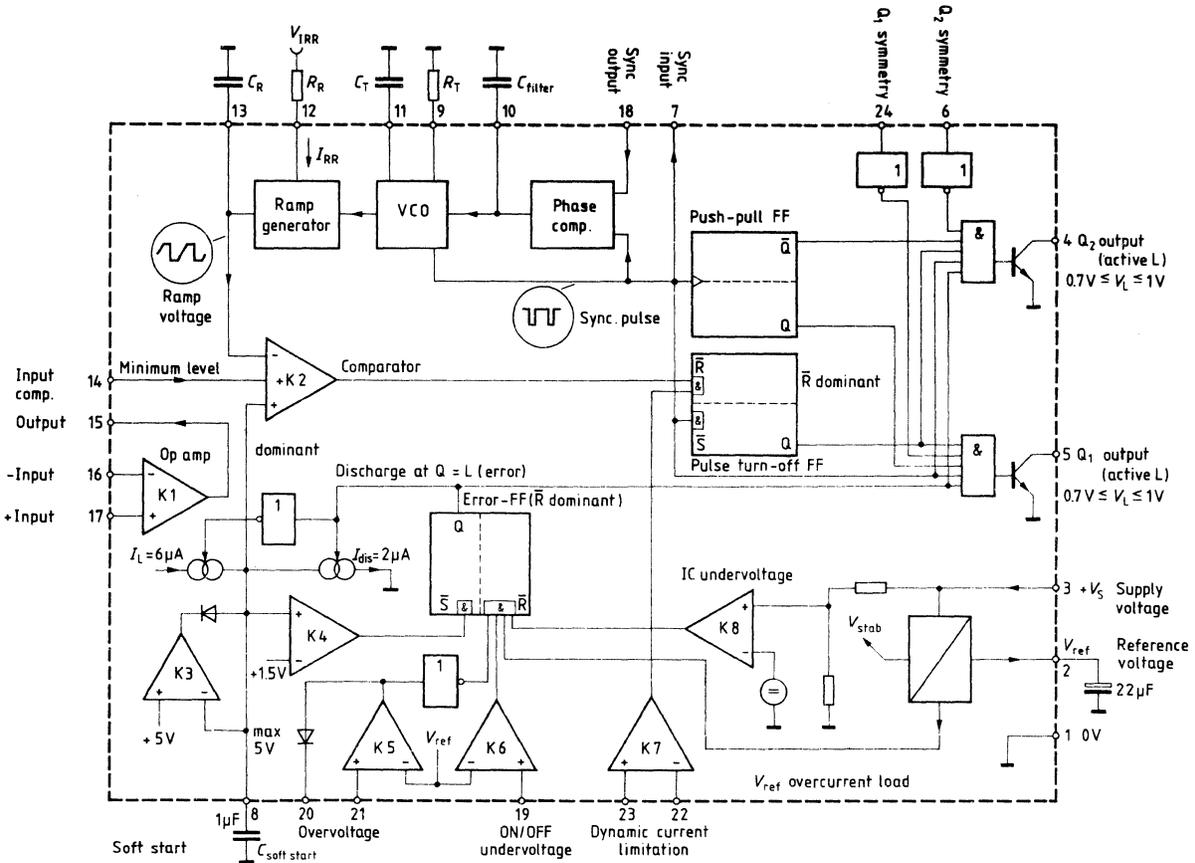


Z2109

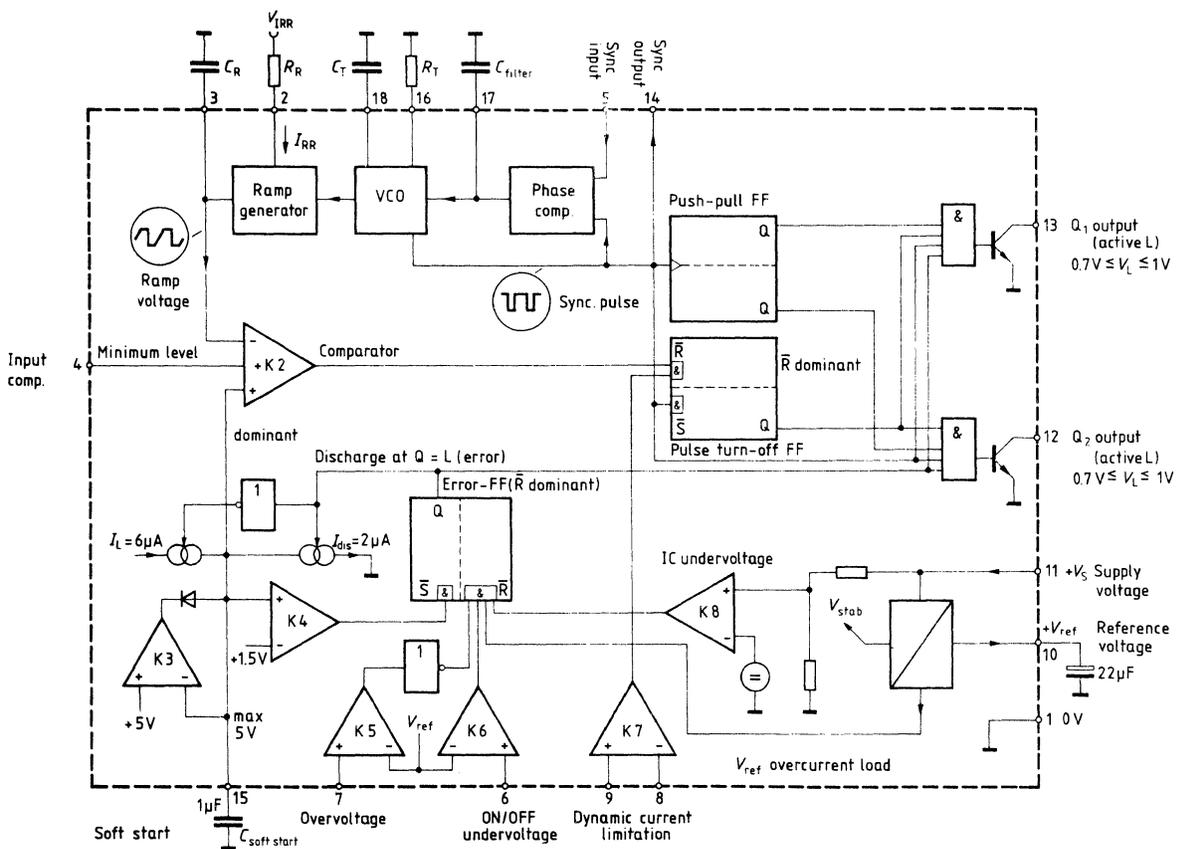


14. CIRCUIT DRAWINGS

Z2110

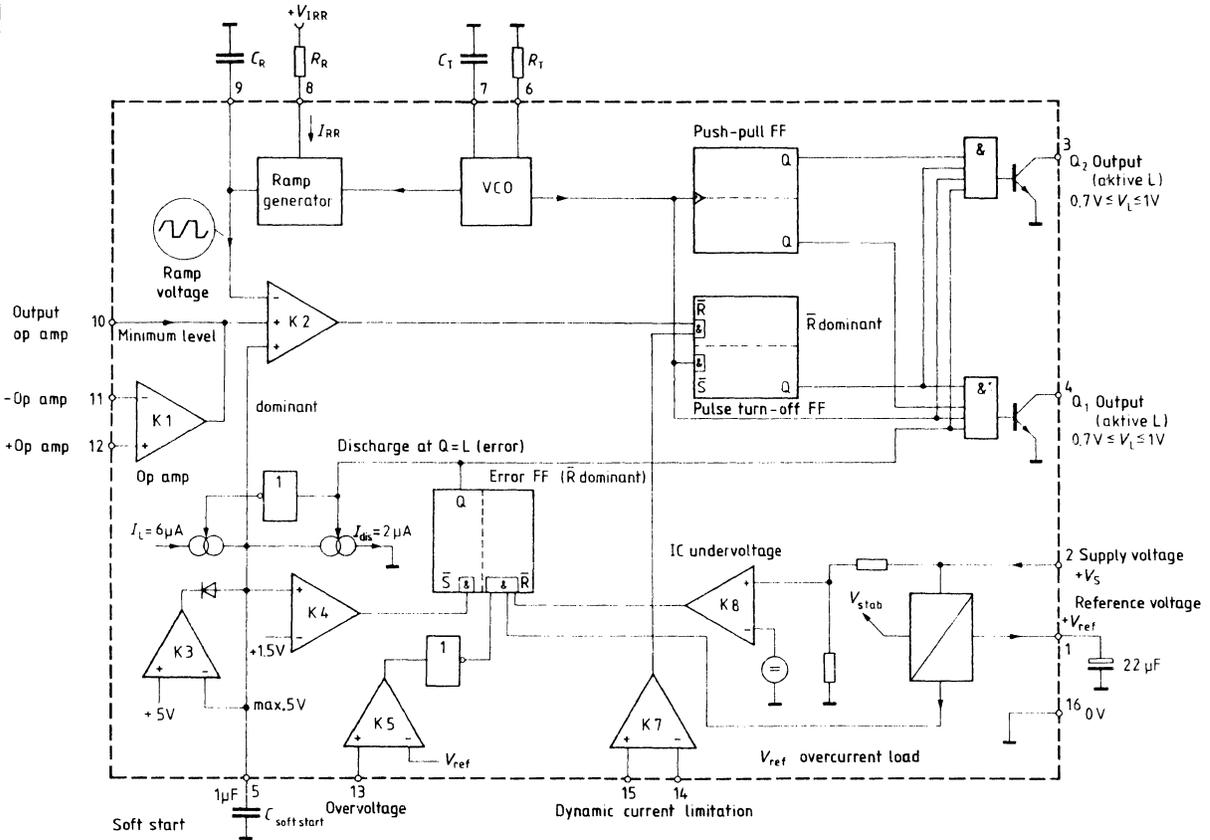


Z2111

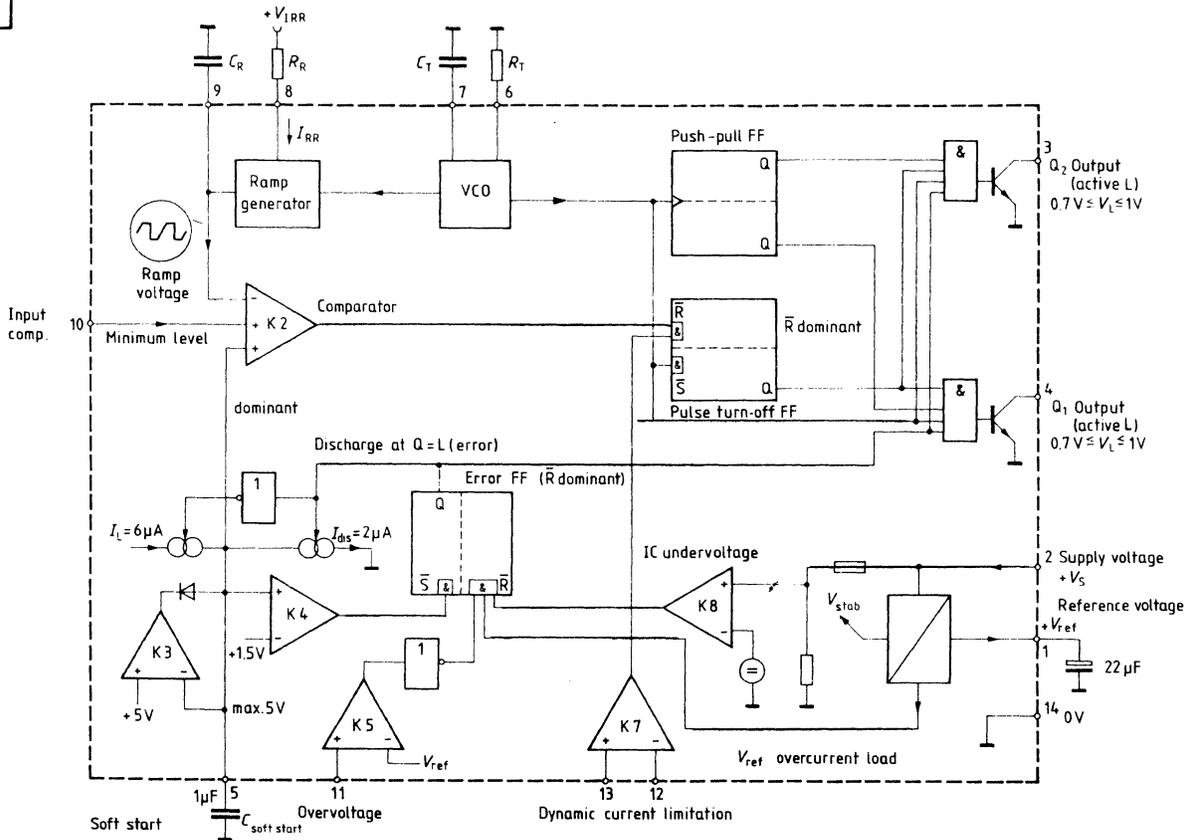


14. CIRCUIT DRAWINGS

Z2112

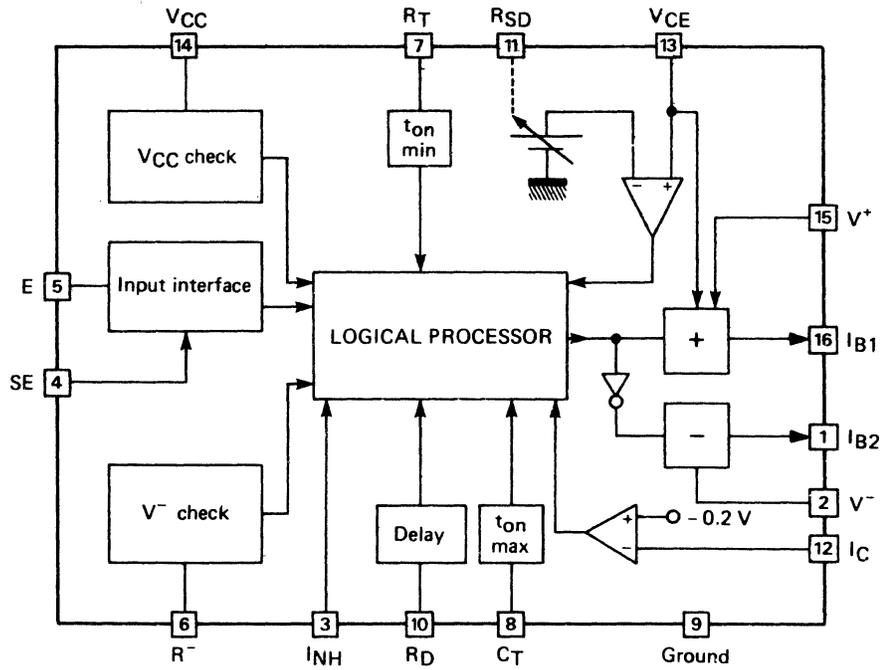


Z2113

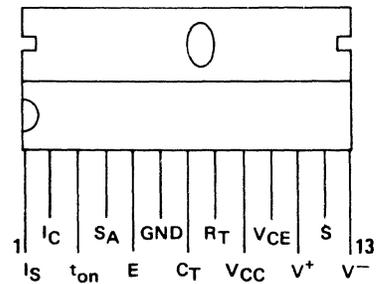
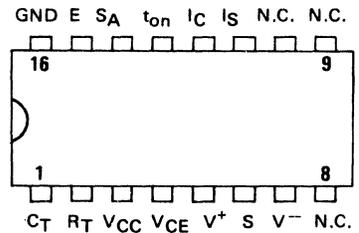
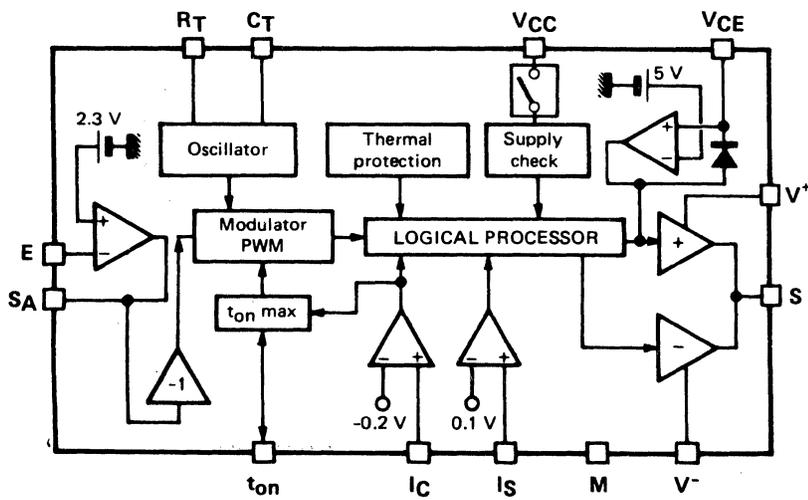


14. CIRCUIT DRAWINGS

Z2114

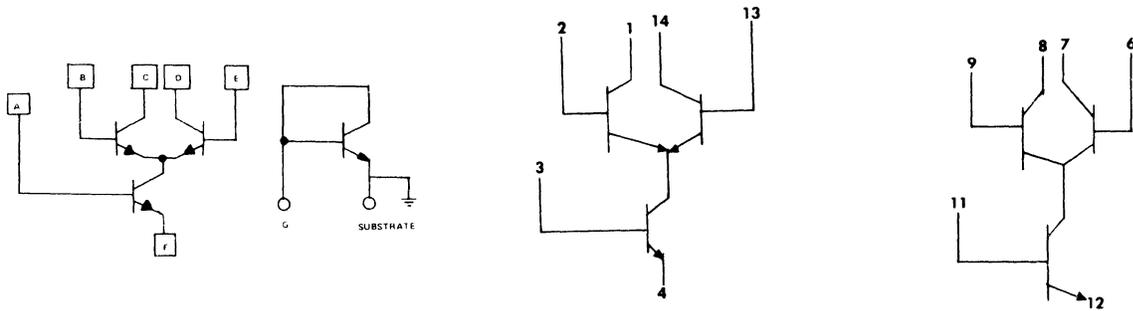


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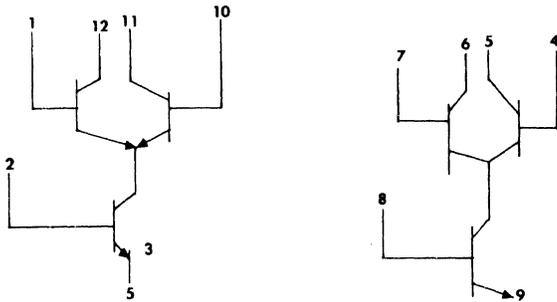


14. CIRCUIT DRAWINGS

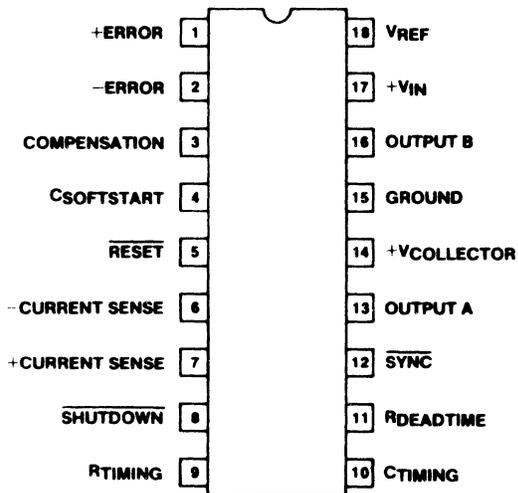
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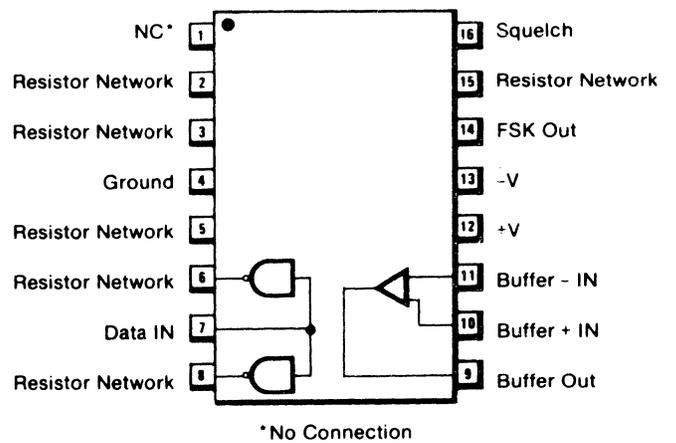
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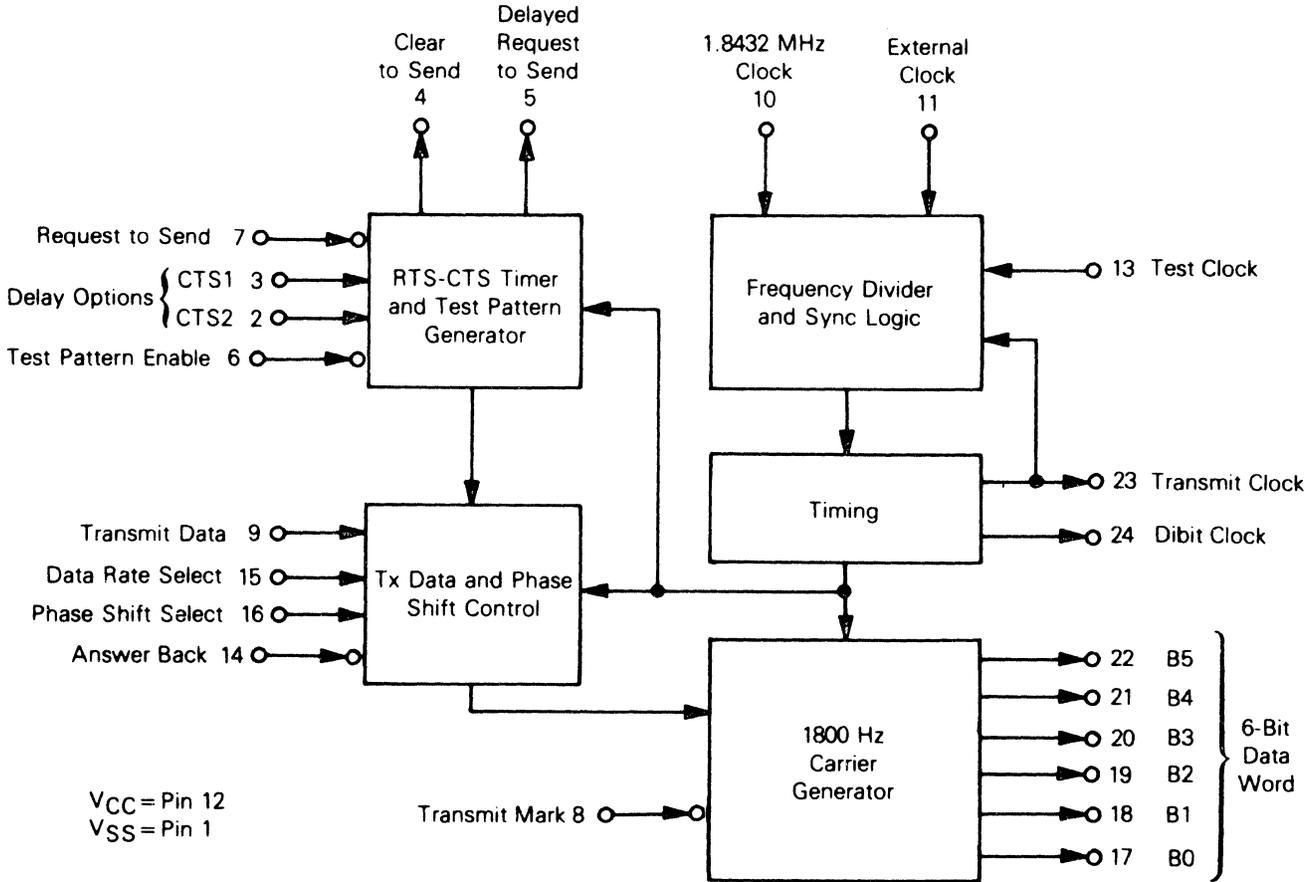


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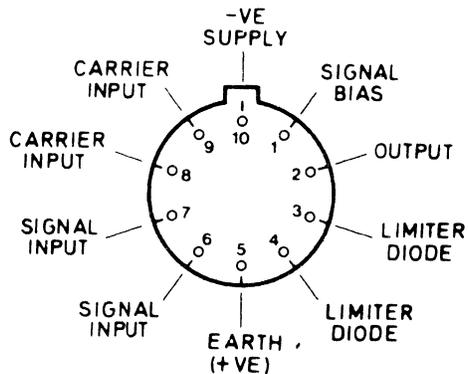


14. CIRCUIT DRAWINGS

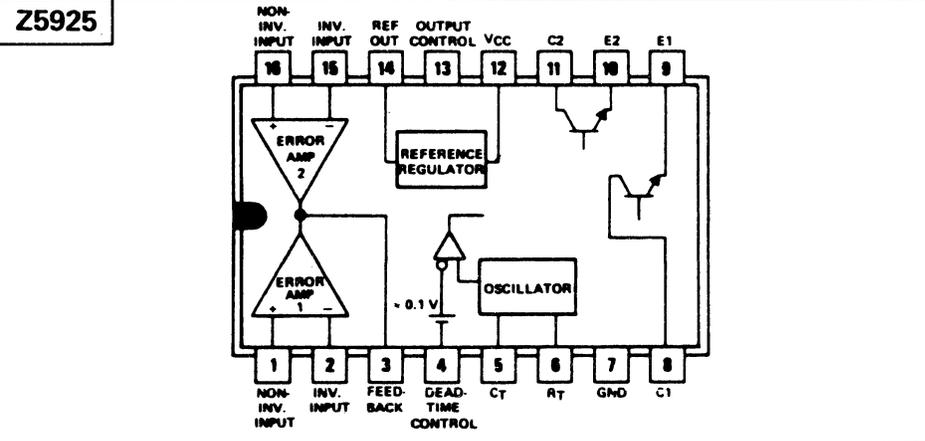
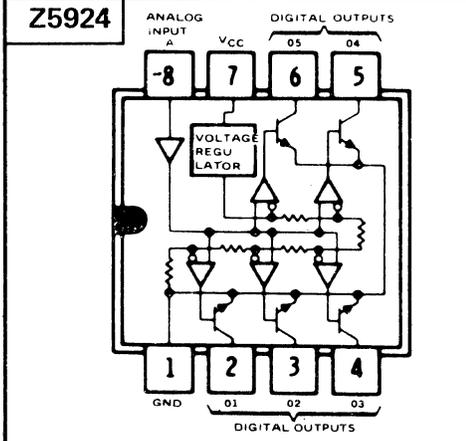
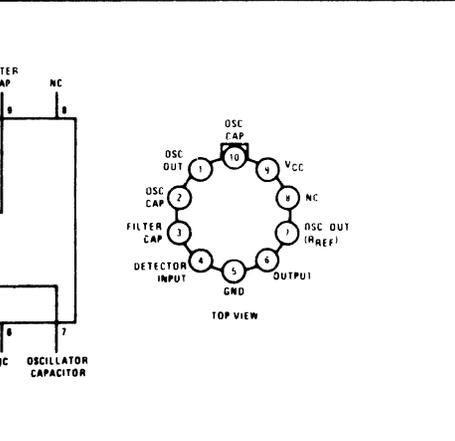
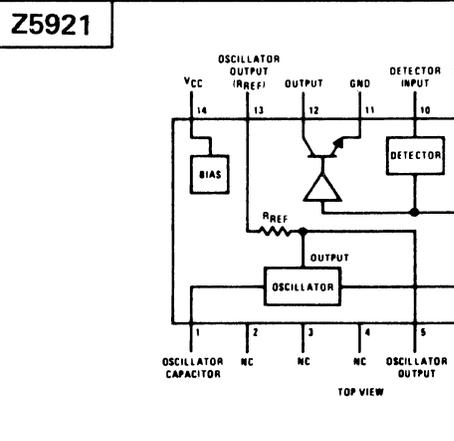
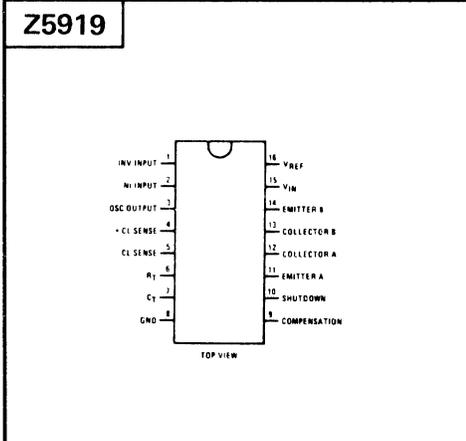
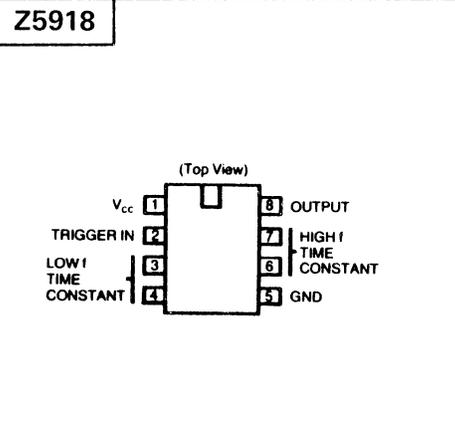
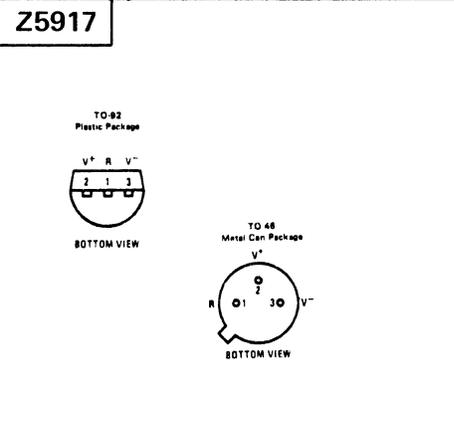
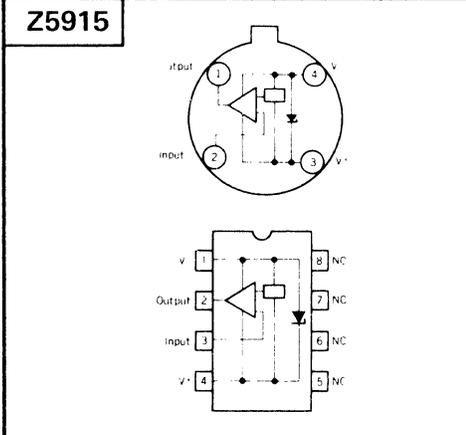
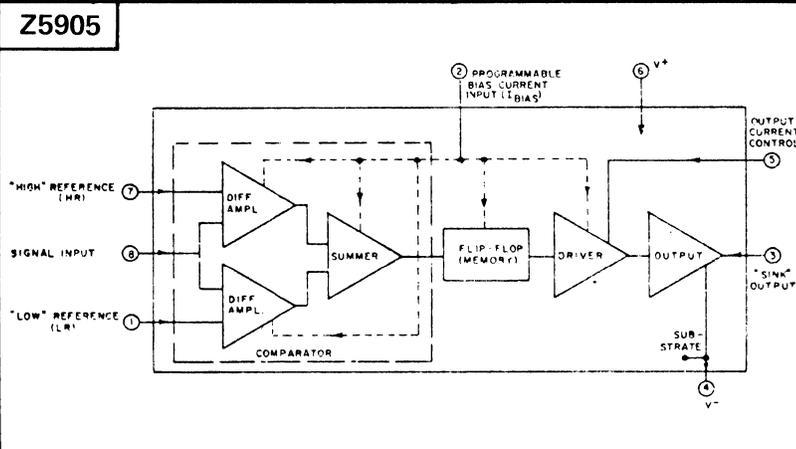
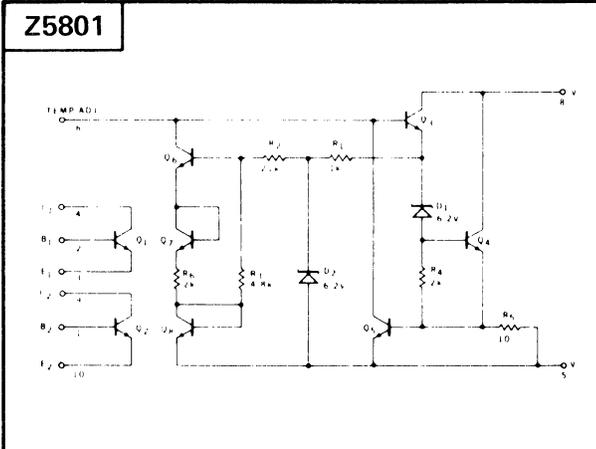
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Z5609

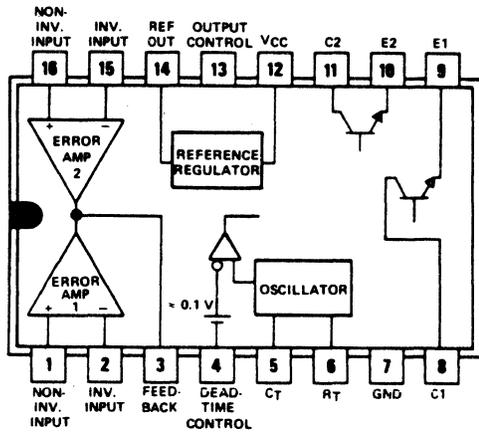


14. CIRCUIT DRAWINGS

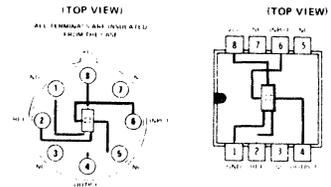


14. CIRCUIT DRAWINGS

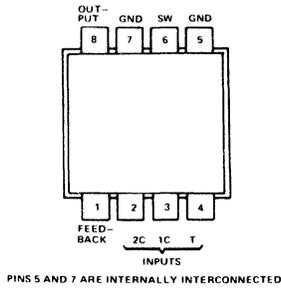
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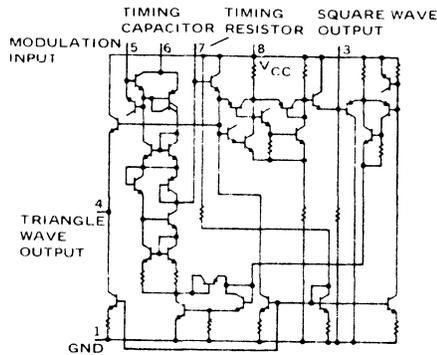
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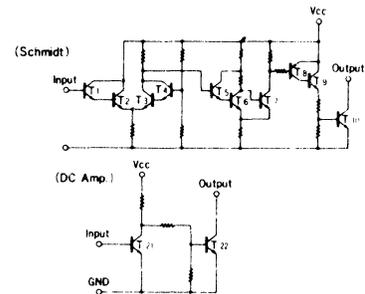
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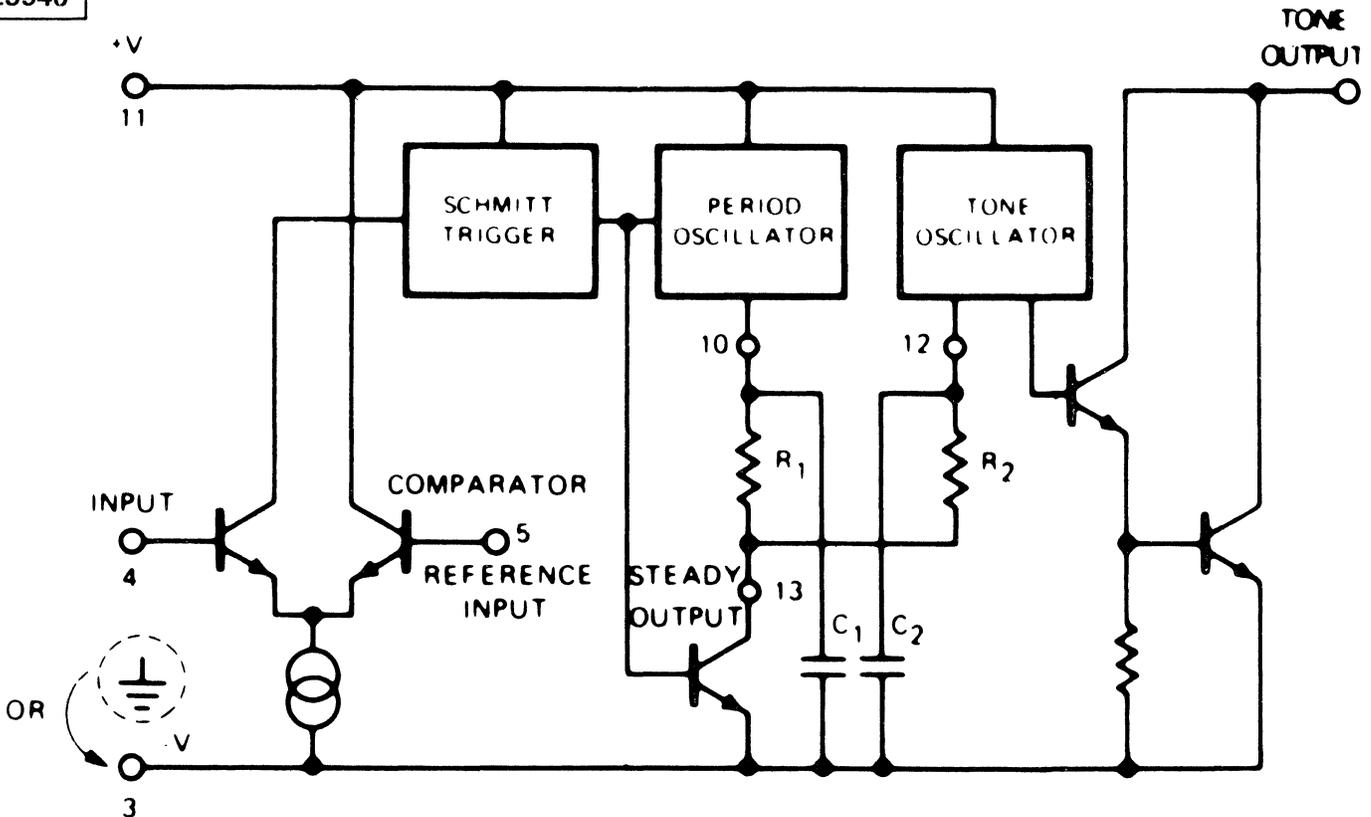
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Z5938

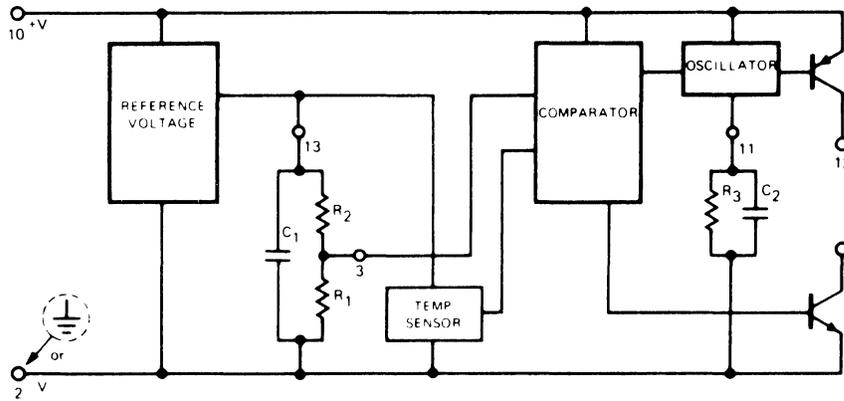


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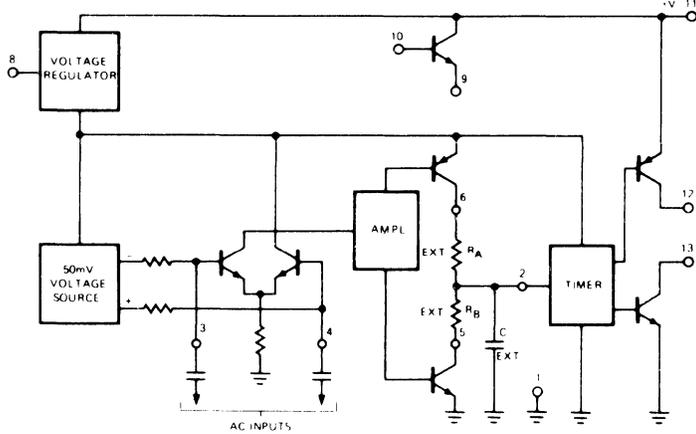


14. CIRCUIT DRAWINGS

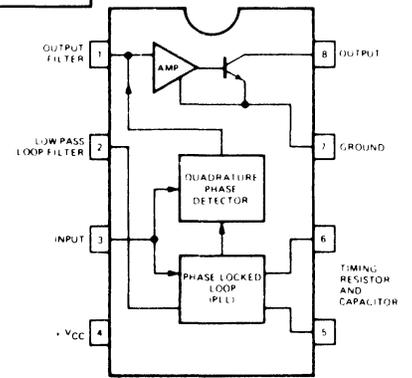
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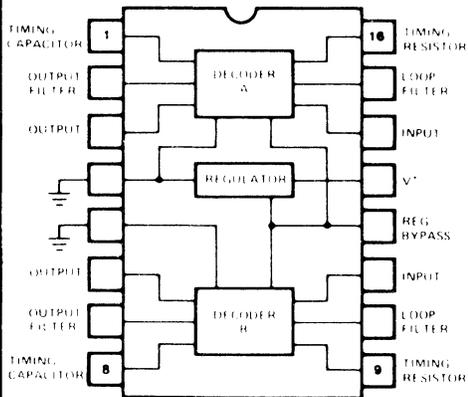
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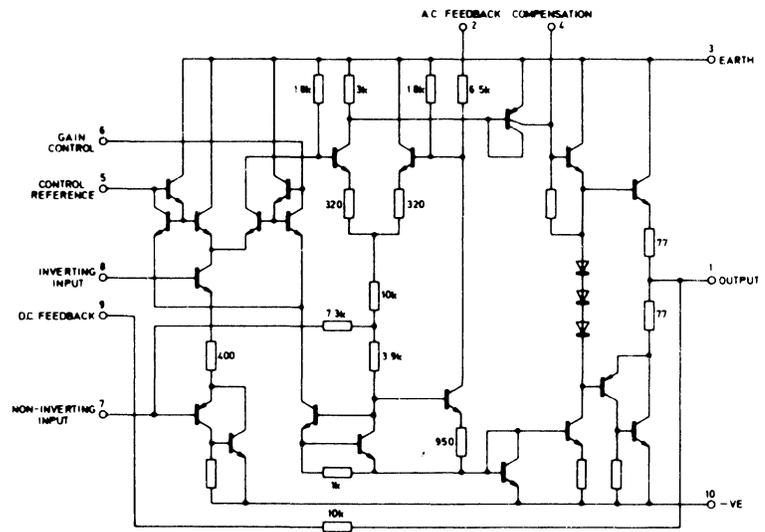
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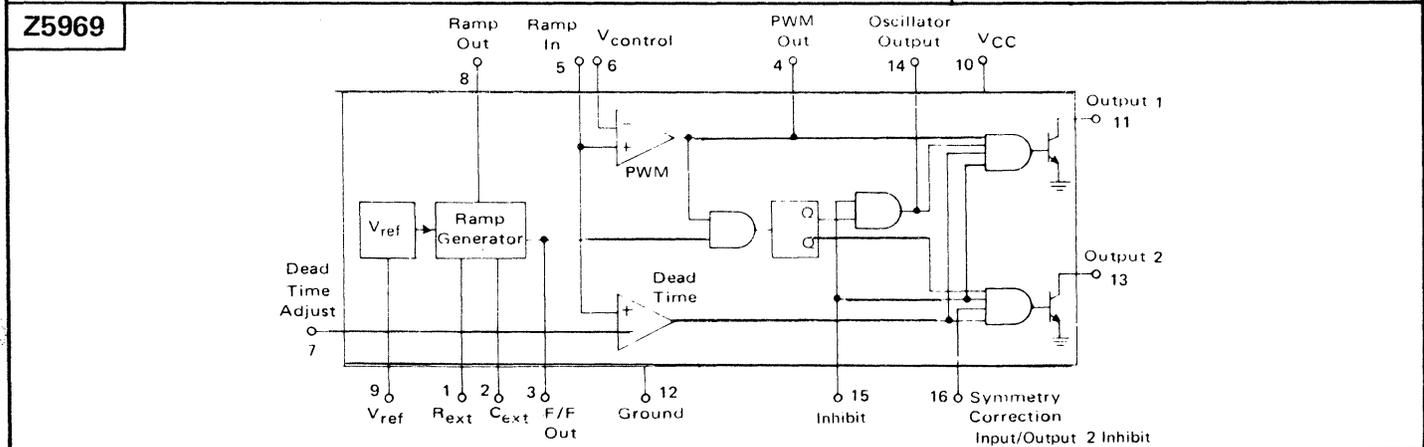
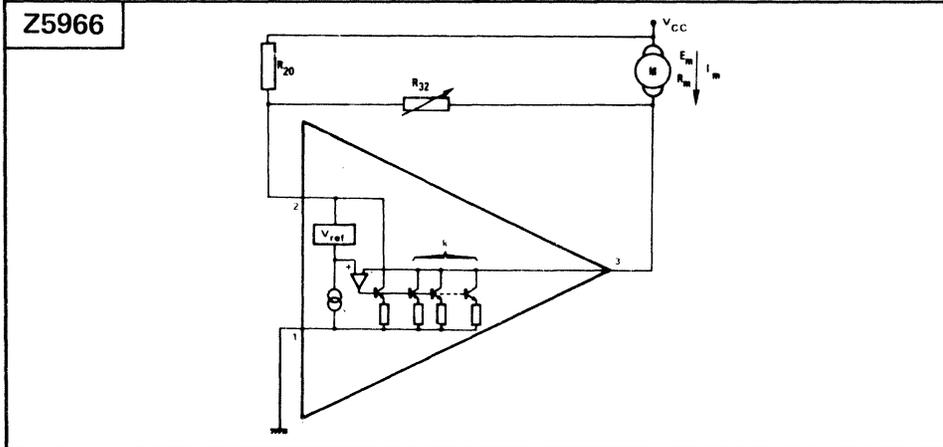
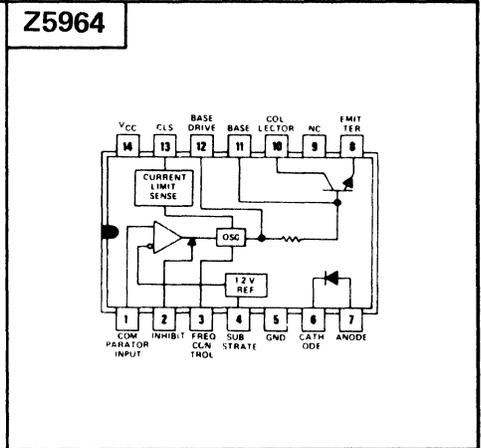
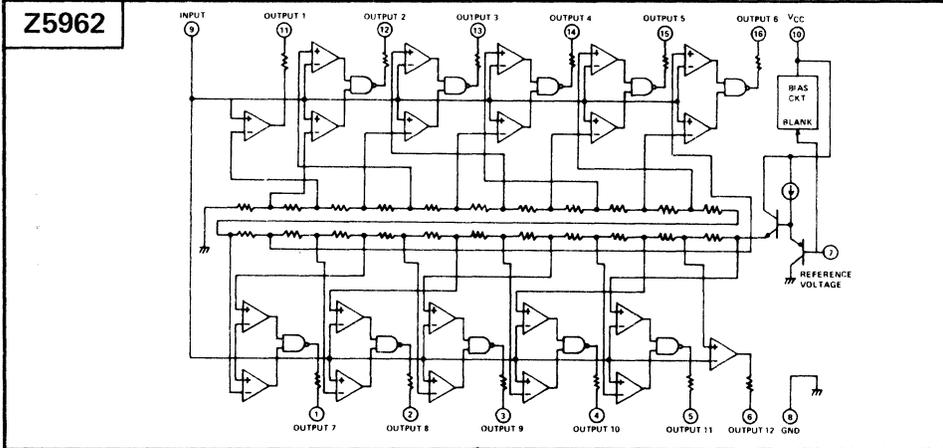
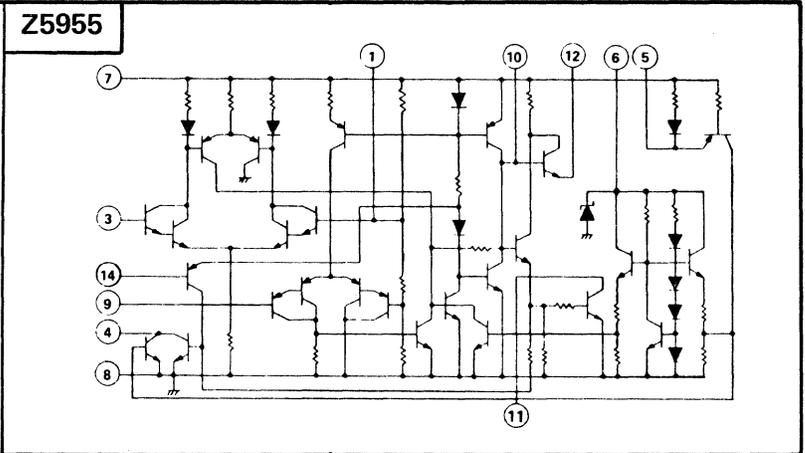
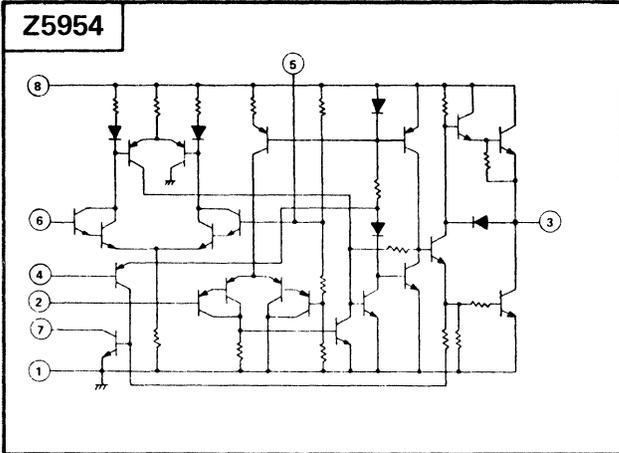
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Z5951

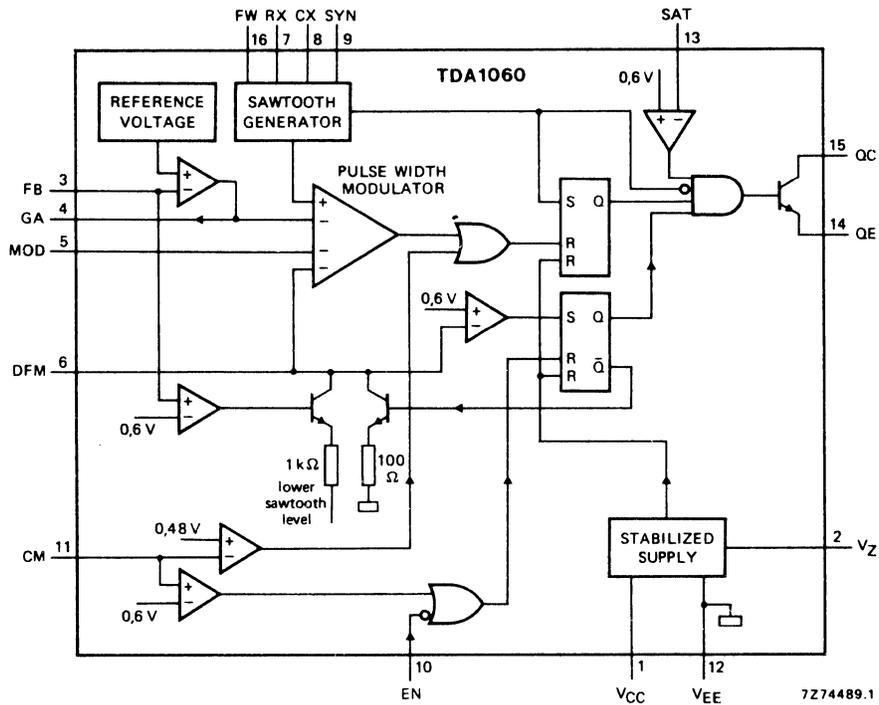


14. CIRCUIT DRAWINGS

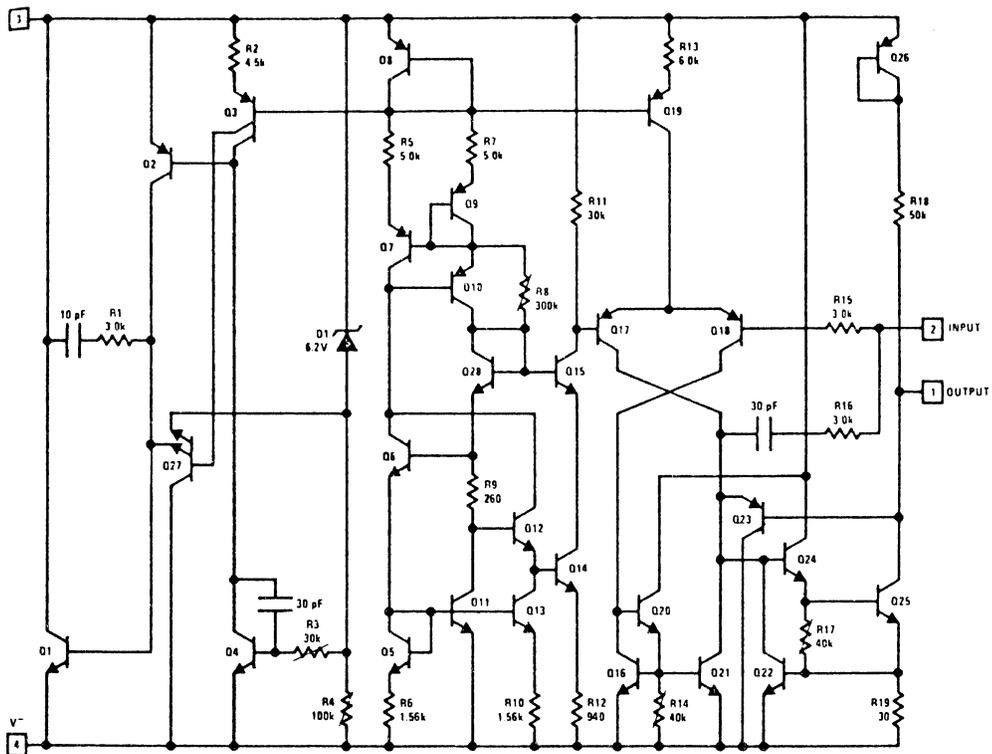


14. CIRCUIT DRAWINGS

Z5972

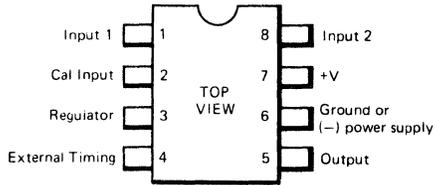


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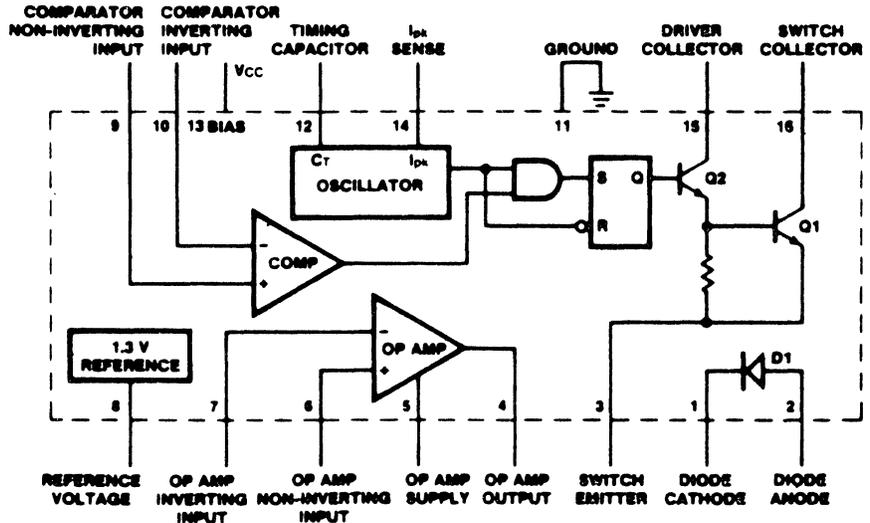


14. CIRCUIT DRAWINGS

Z5982



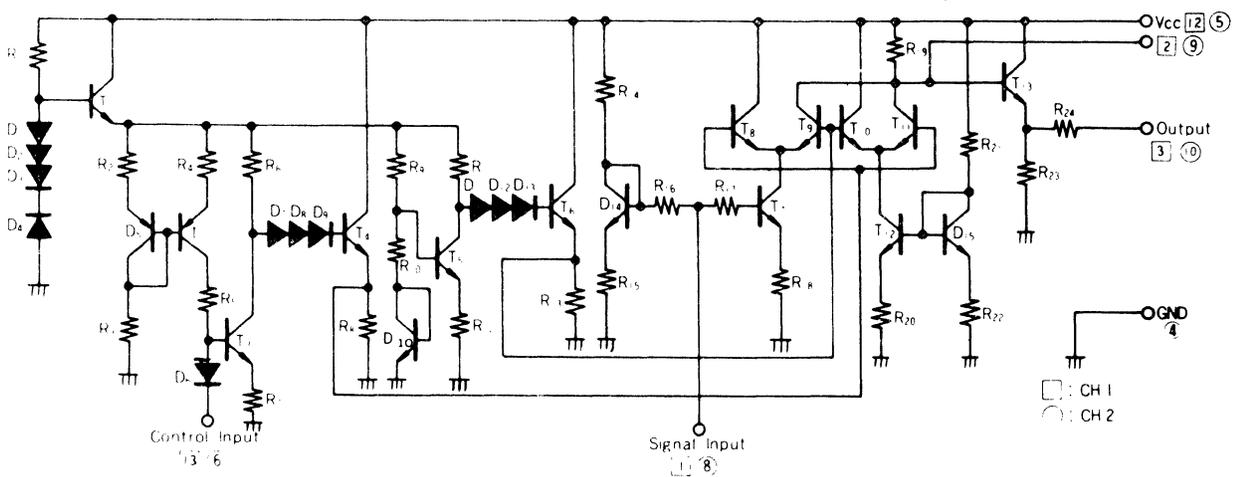
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Z5993

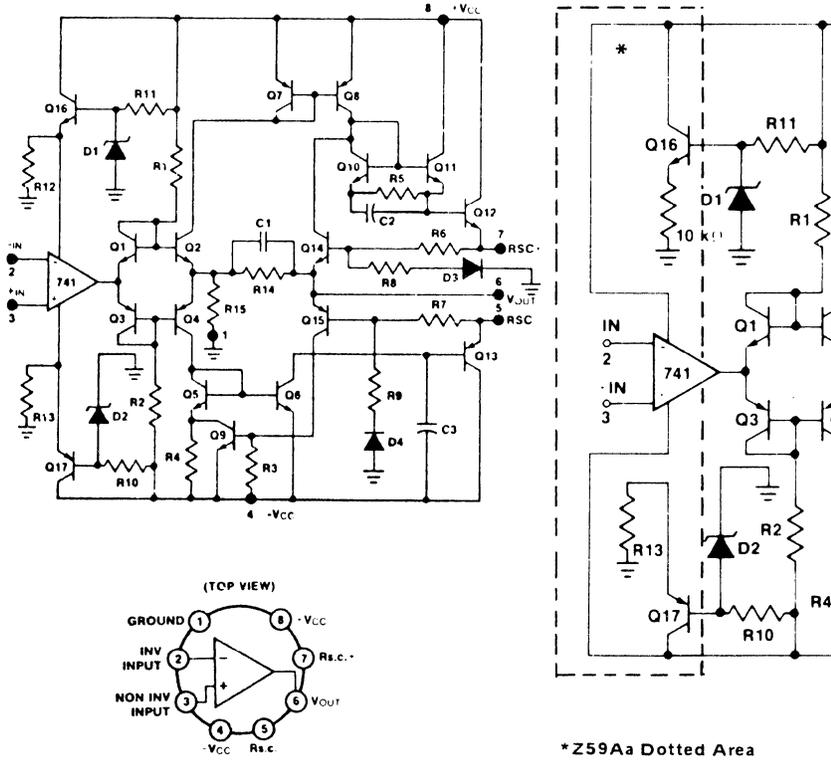
Z5994

Z5994: EFFECTIVE FOR 1 CHANNEL ONLY.
GND 4 COMMON TO BOTH TYPES.



14. CIRCUIT DRAWINGS

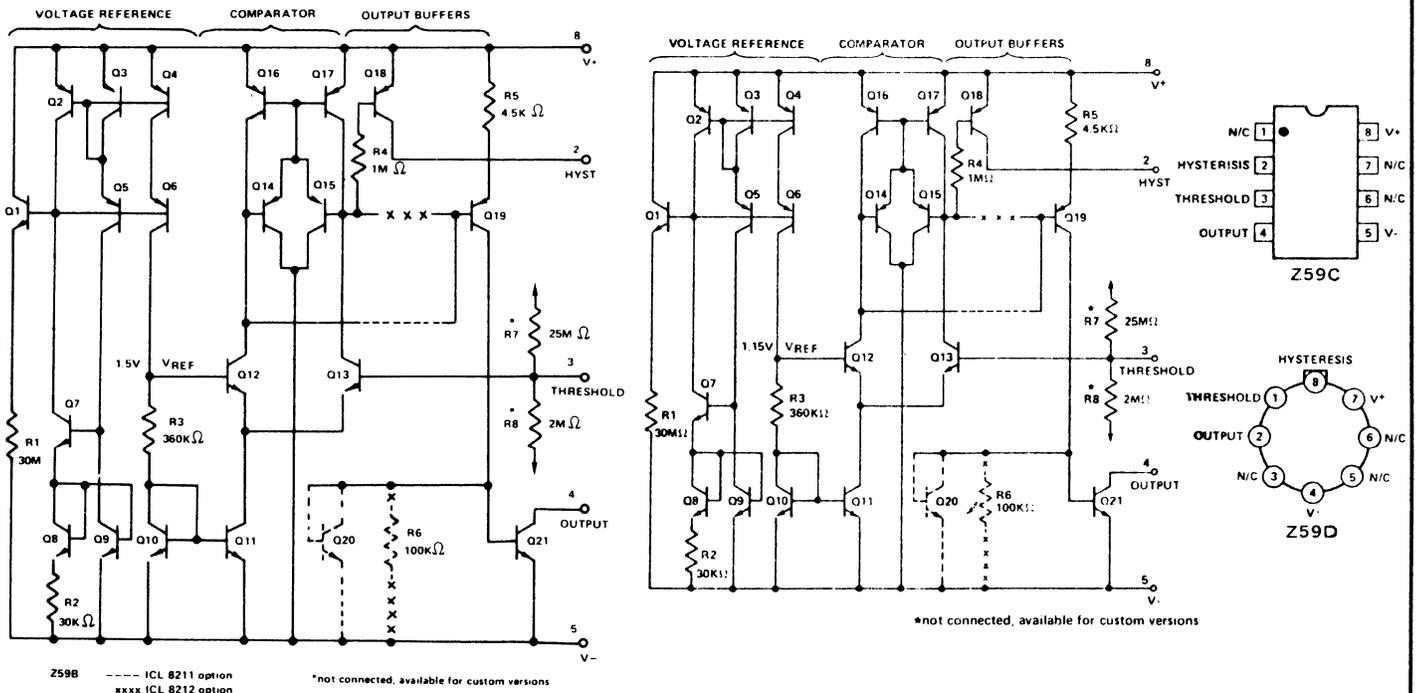
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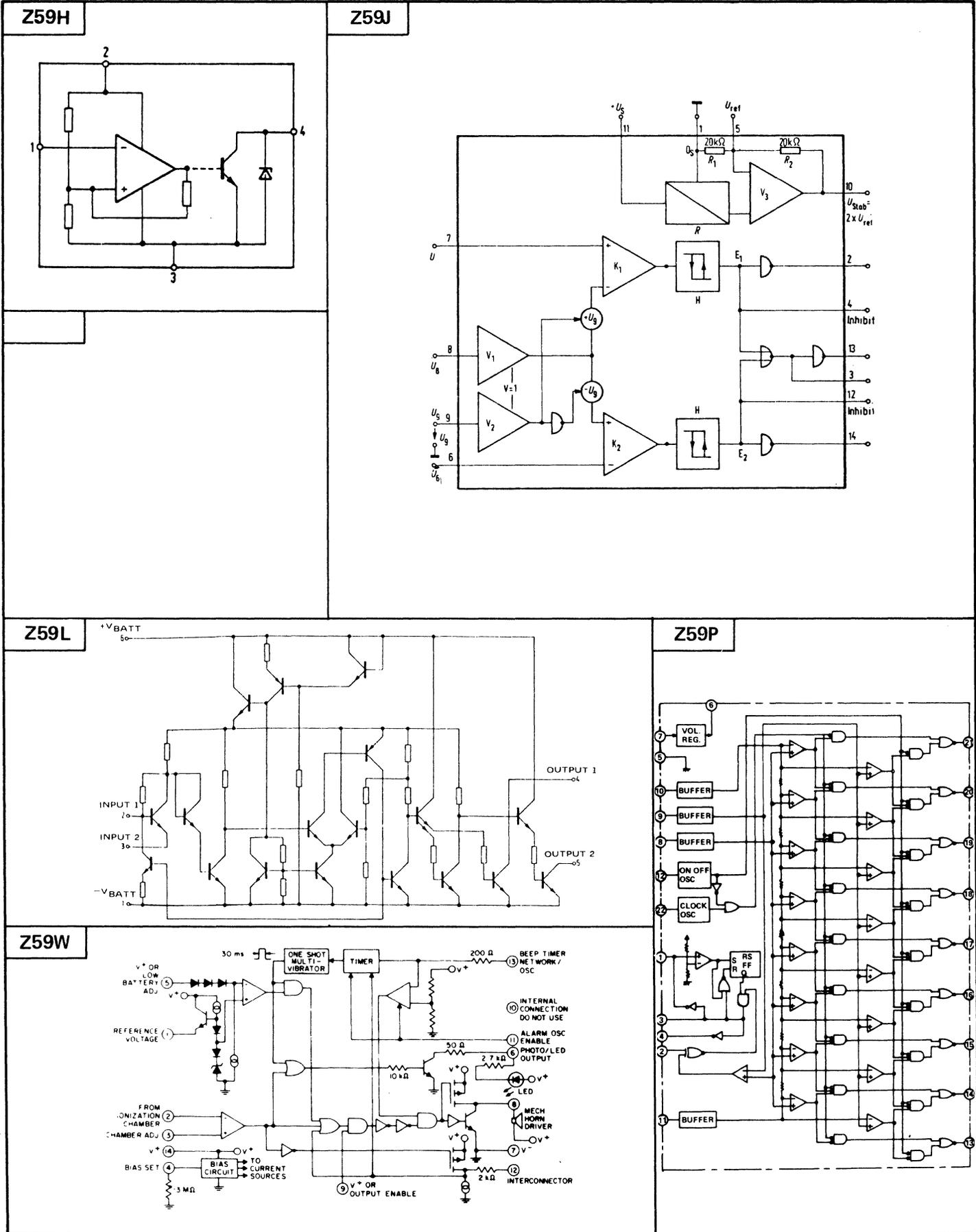
Z59B

Z59C

Z59D

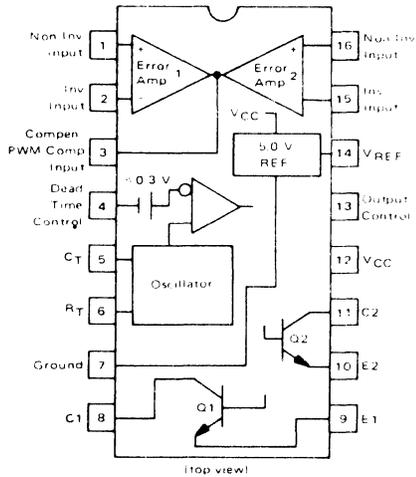


14. CIRCUIT DRAWINGS

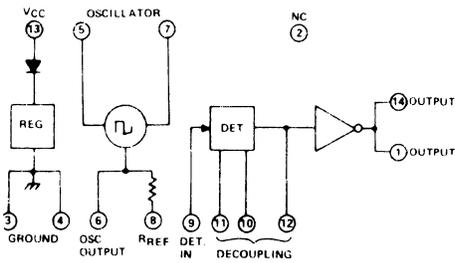


14. CIRCUIT DRAWINGS

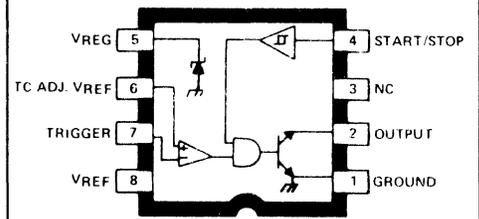
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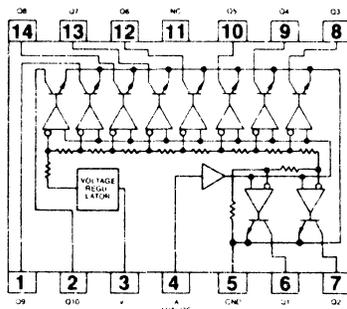
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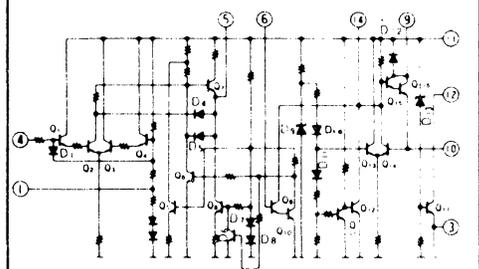
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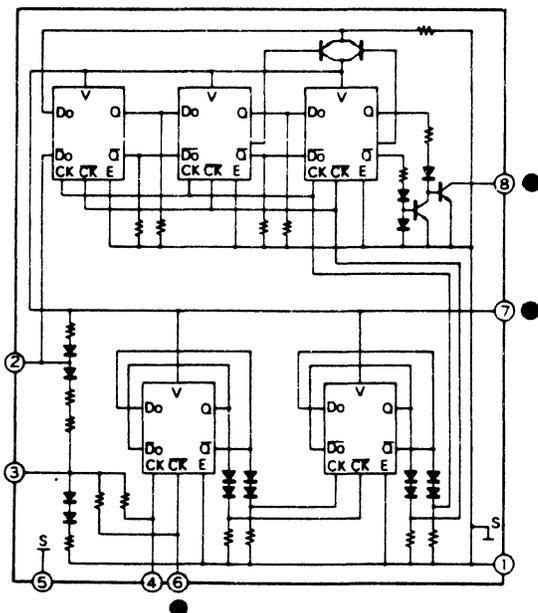
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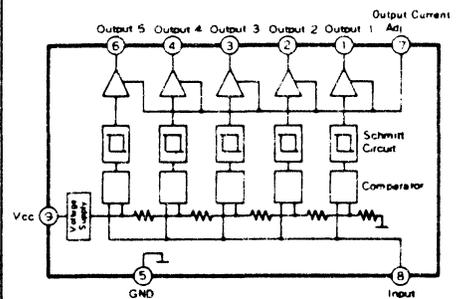
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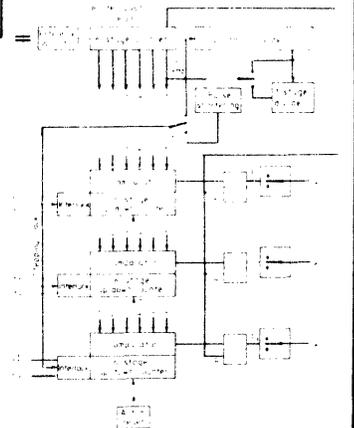
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Z59BE

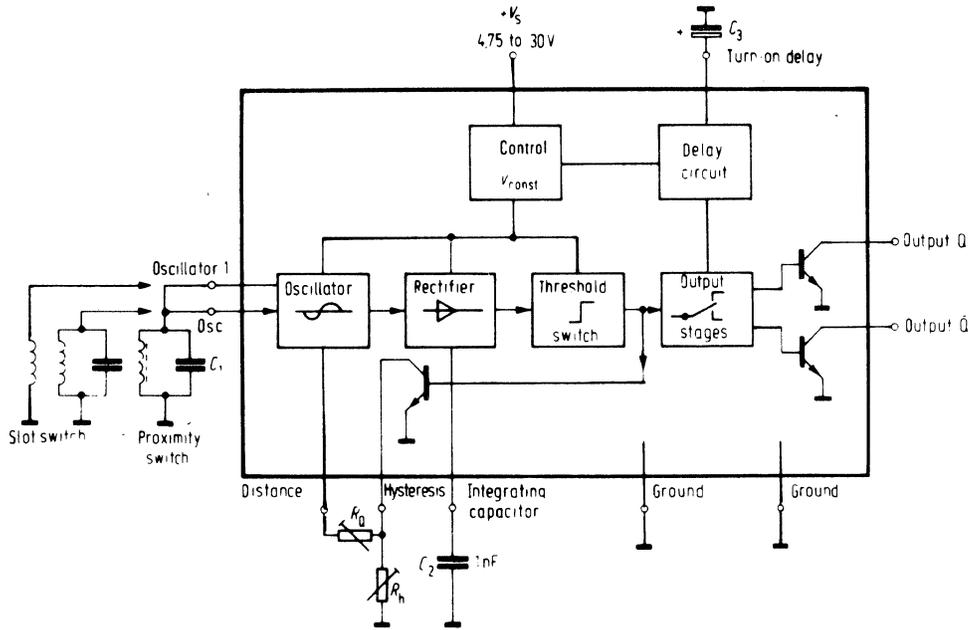


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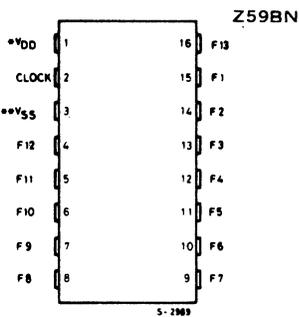


14. CIRCUIT DRAWINGS

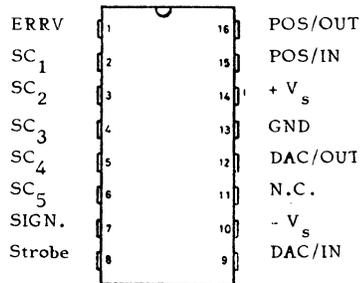
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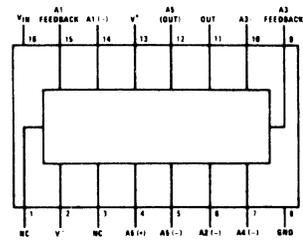
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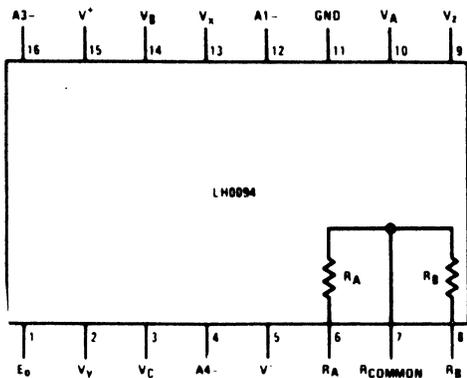
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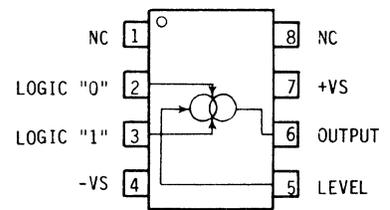
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Z59BZ

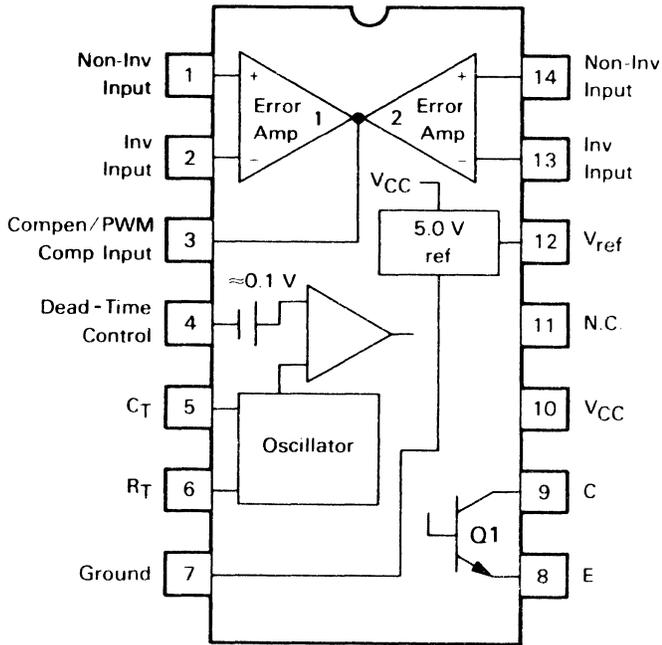


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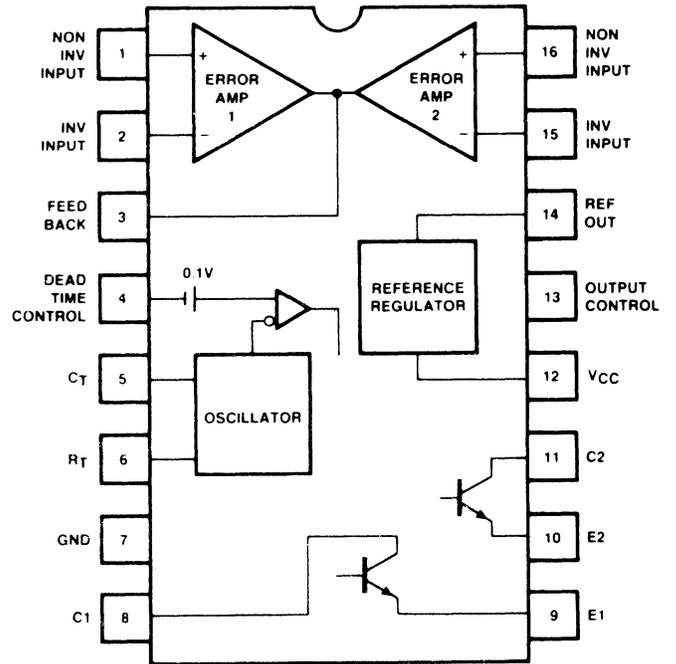


14. CIRCUIT DRAWINGS

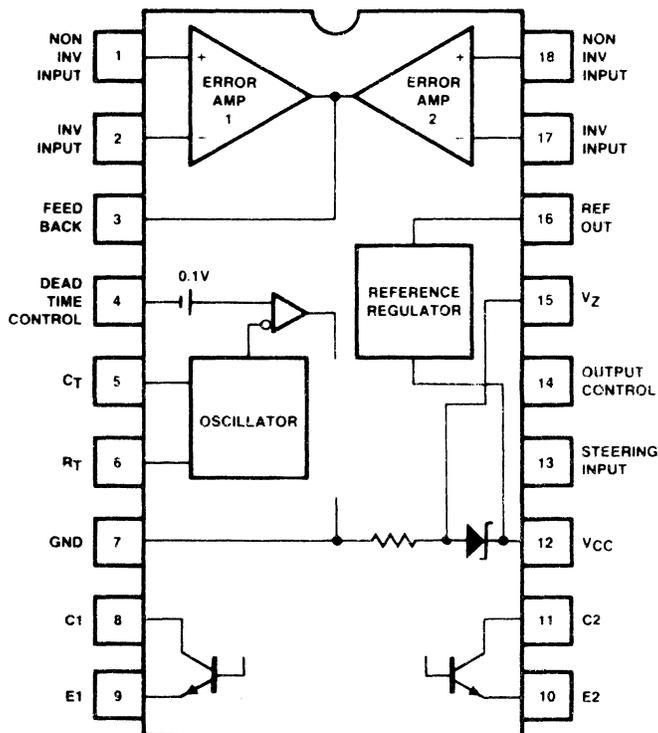
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Z59CW

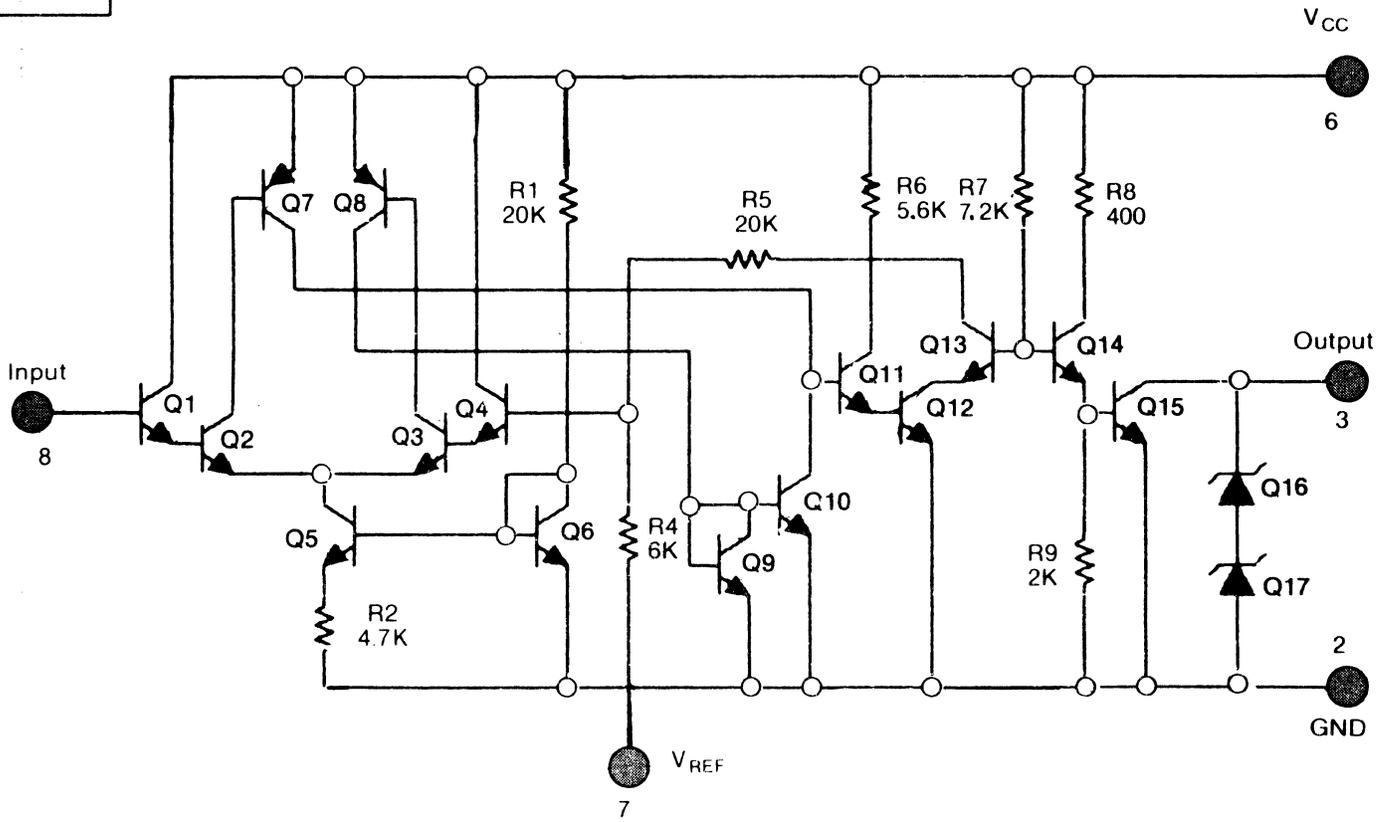


Z59CX



14. CIRCUIT DRAWINGS

Z59CY



Z59DA

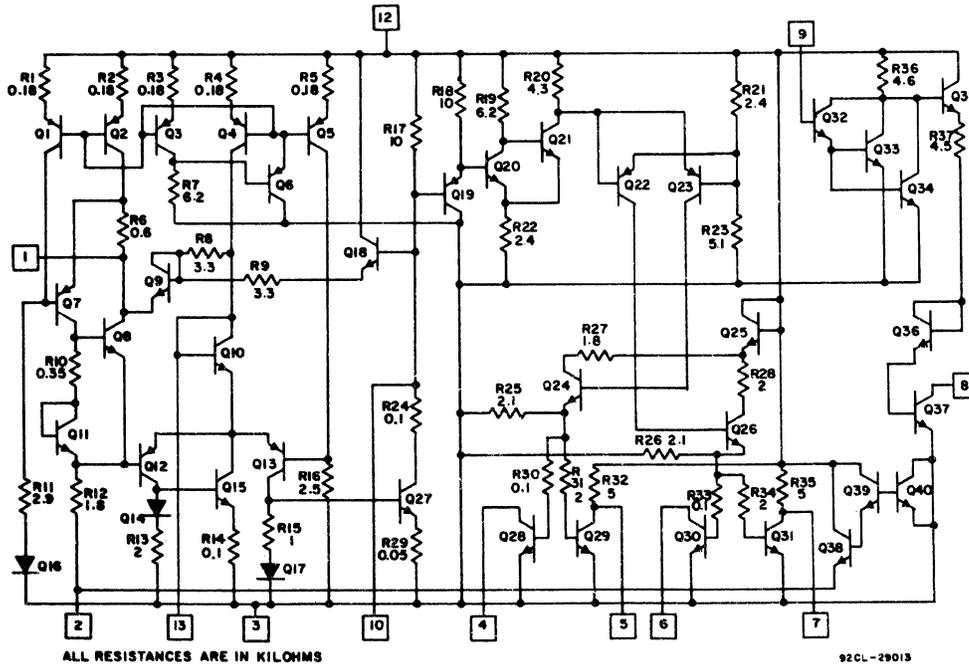


Fig. 3 - Schematic diagram for CA3165E1

14. CIRCUIT DRAWINGS

Z59DB

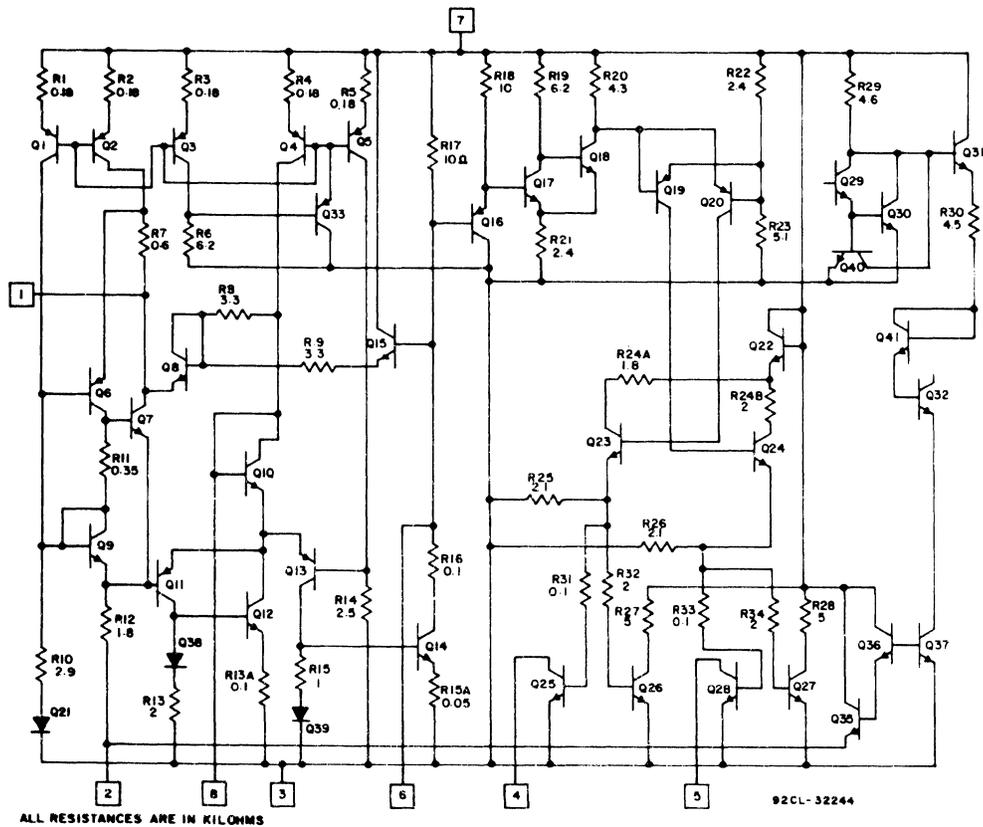
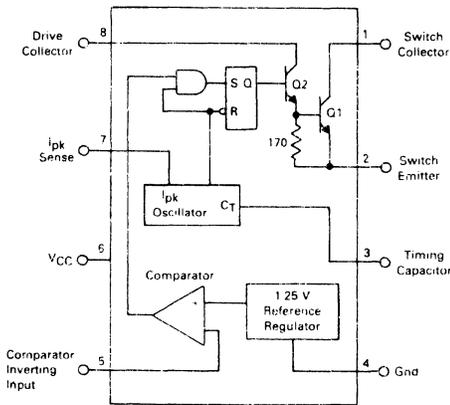
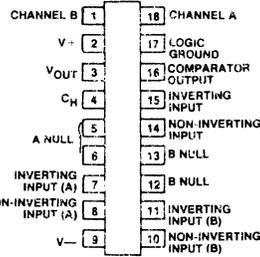


Fig. 4 - Schematic diagram for CA3165E

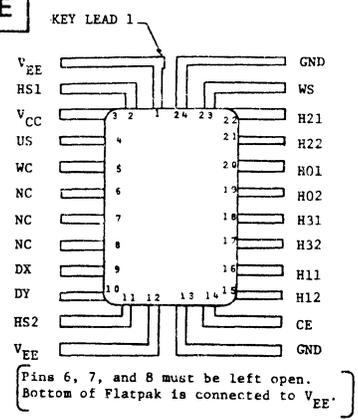
Z59DC



Z59DD

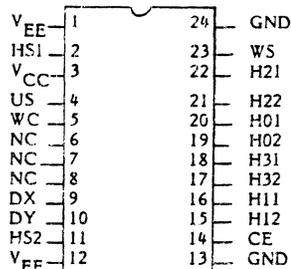


Z59DE



Z59DF

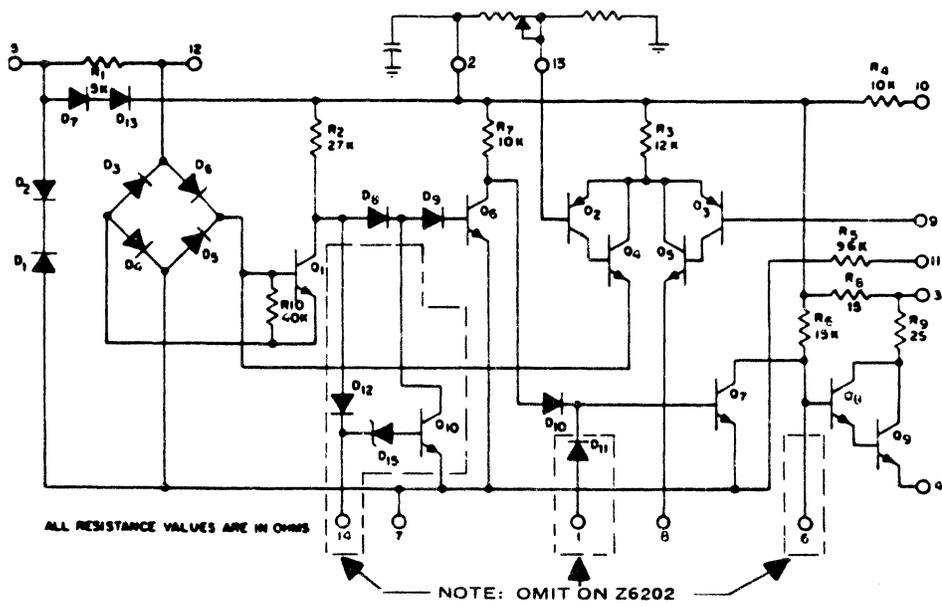
Pin Configuration
(Top View)



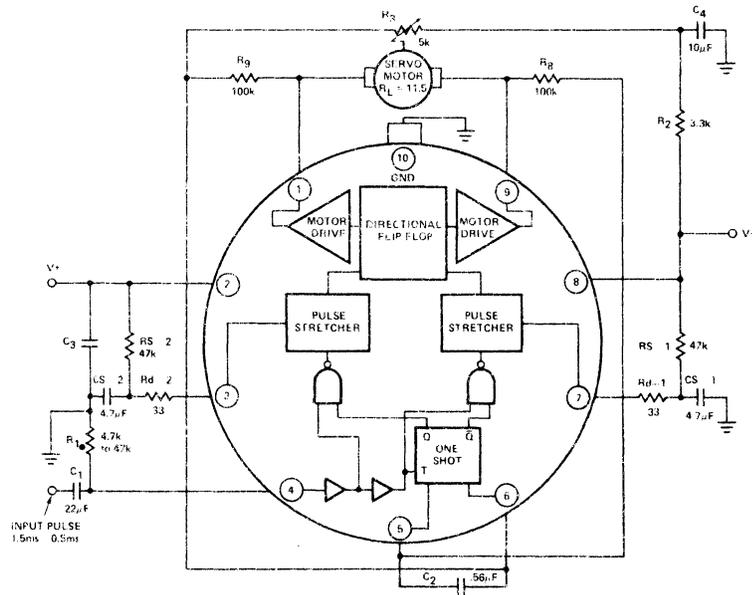
(Pins 6, 7, and 8 must be left open)

14. CIRCUIT DRAWINGS

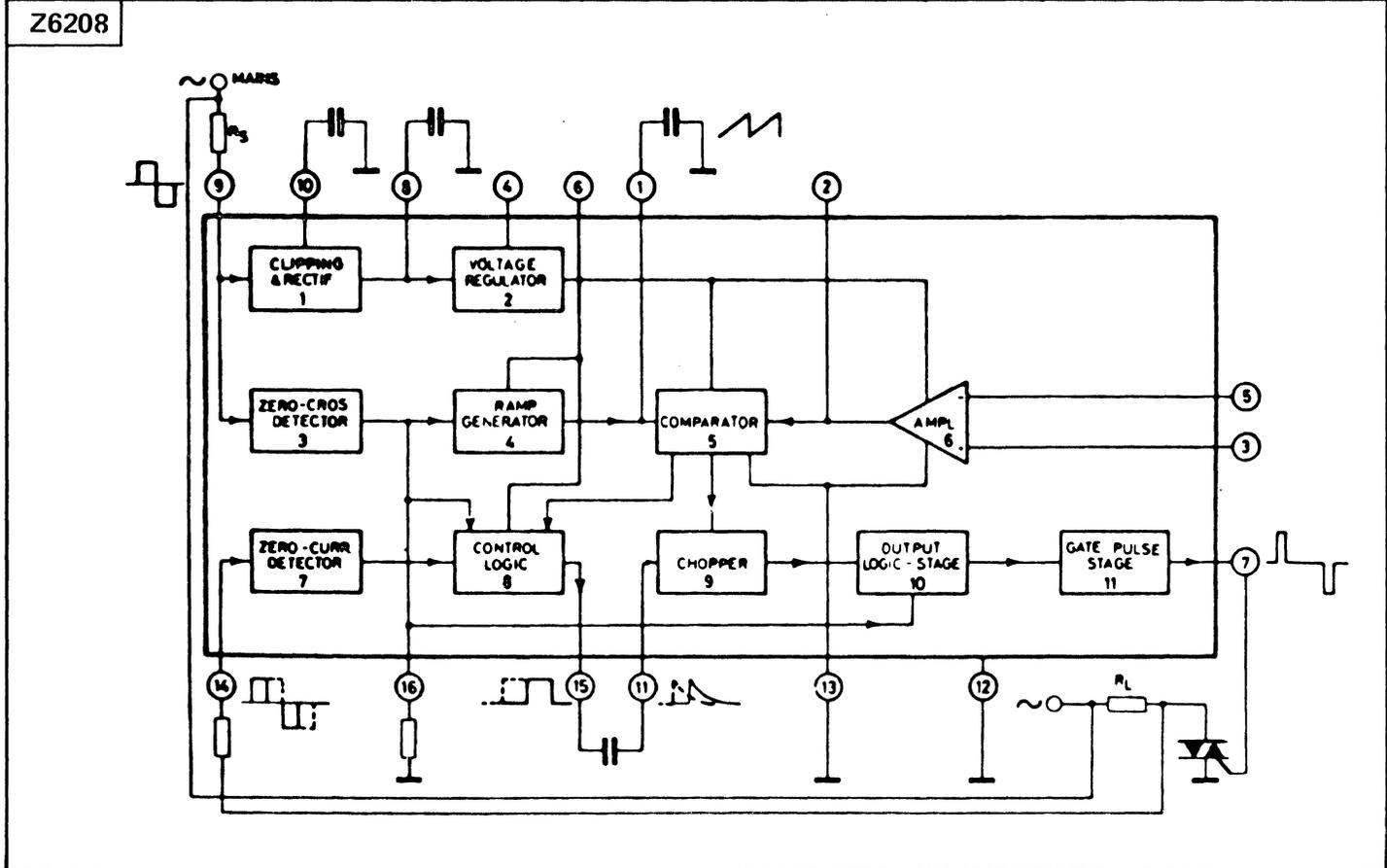
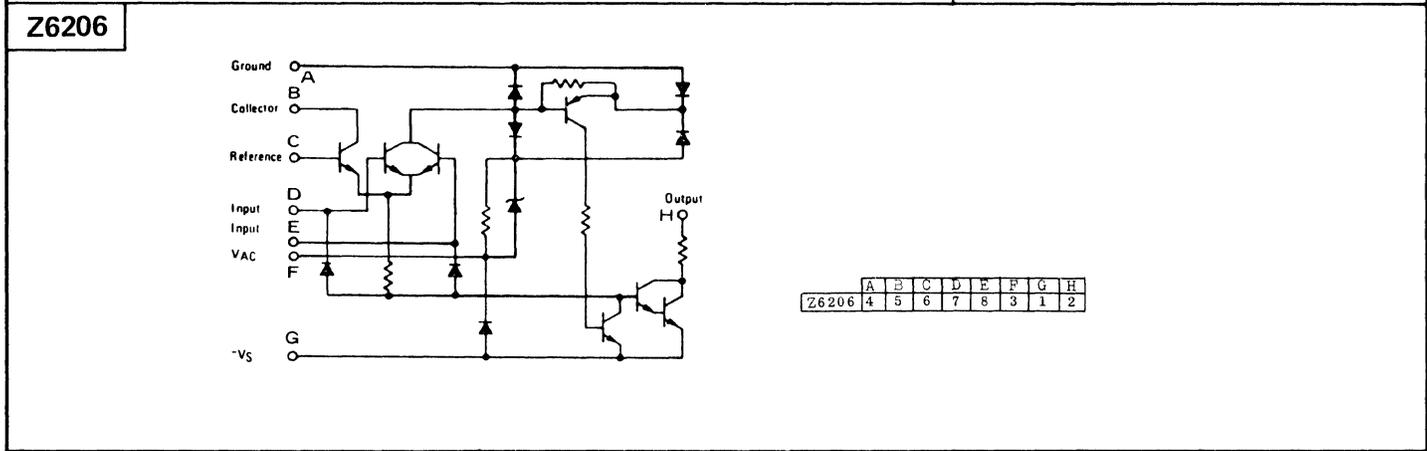
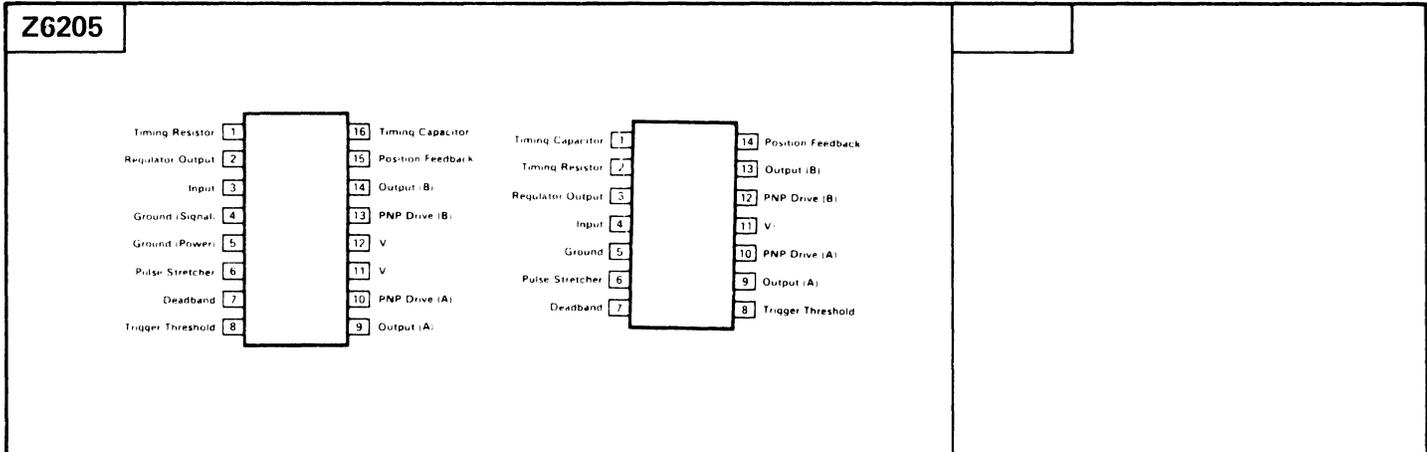
Z6201 Z6202



Z6204

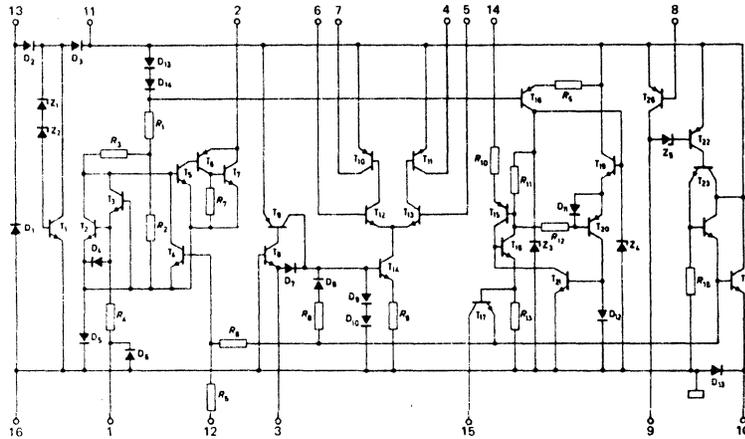


14. CIRCUIT DRAWINGS

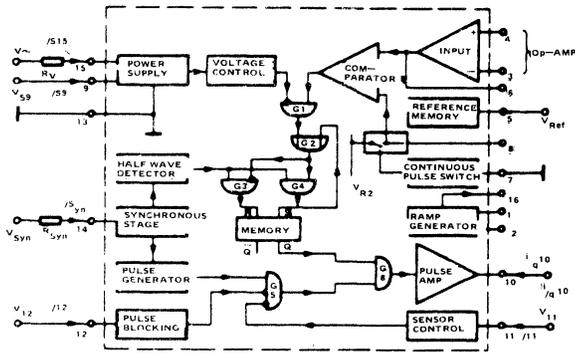


14. CIRCUIT DRAWINGS

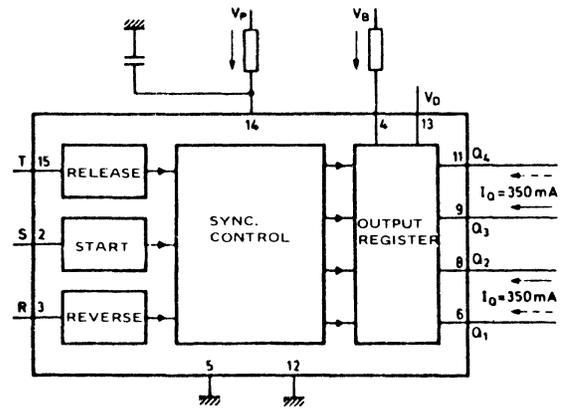
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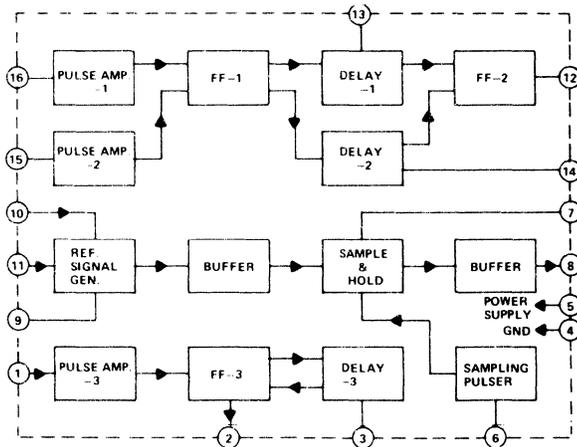
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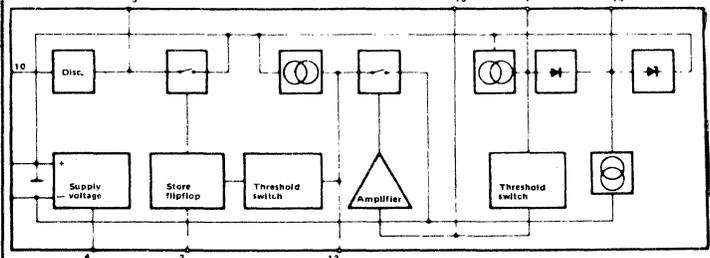
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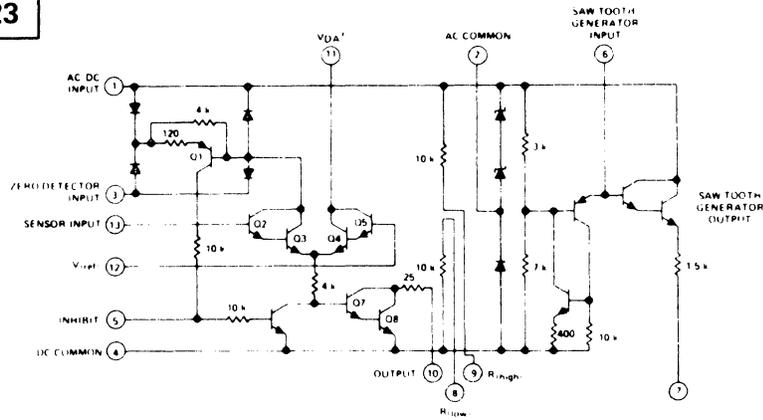


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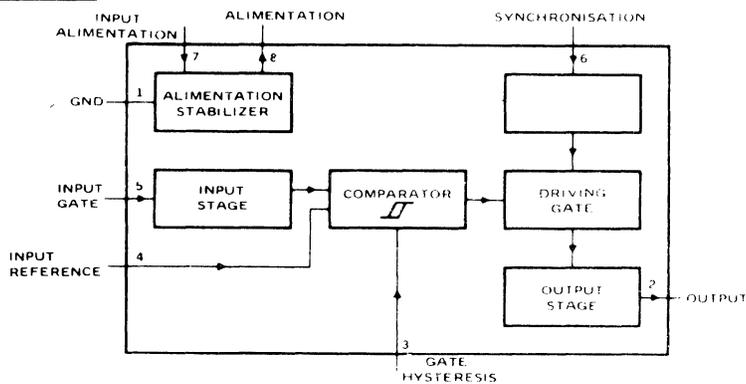


14. CIRCUIT DRAWINGS

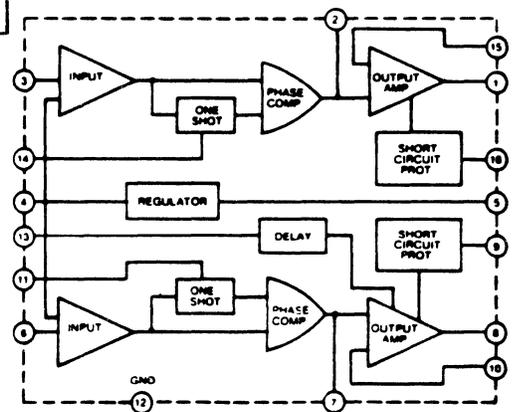
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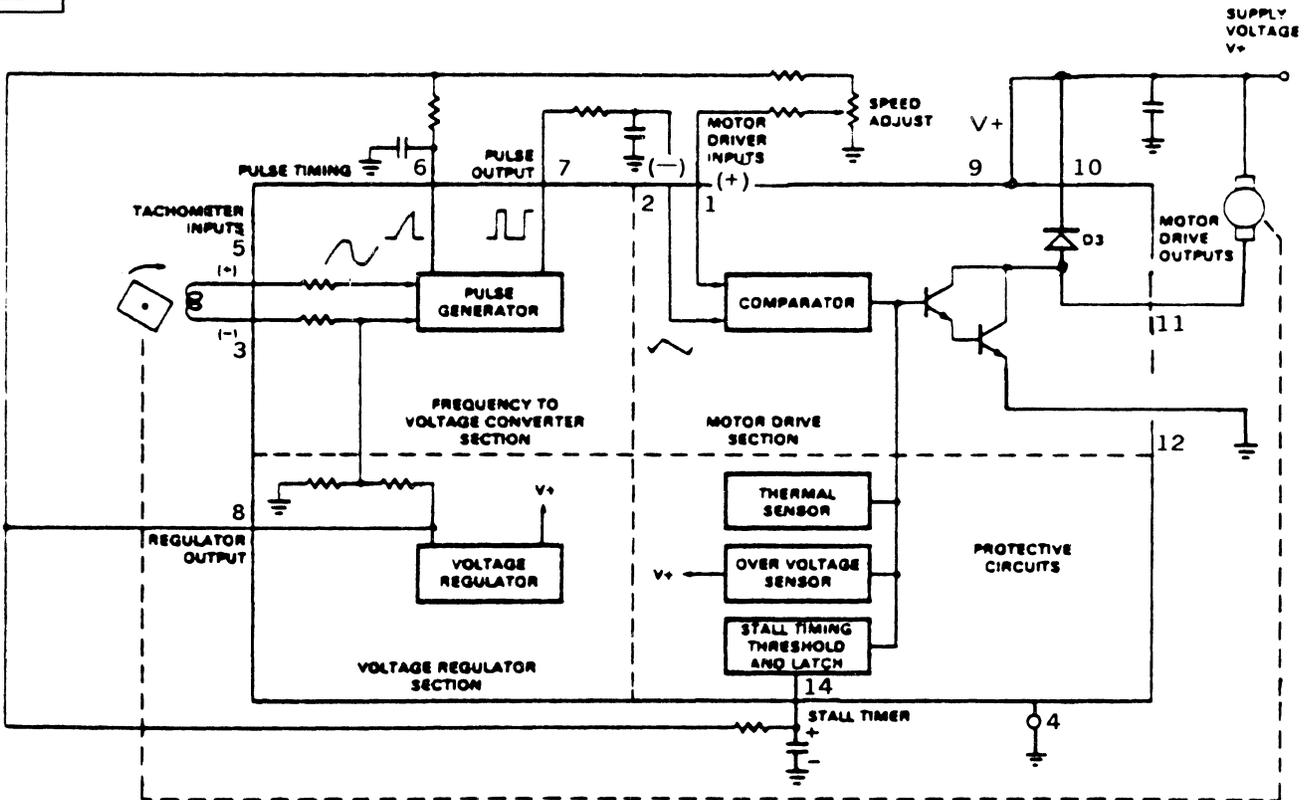
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Z6226

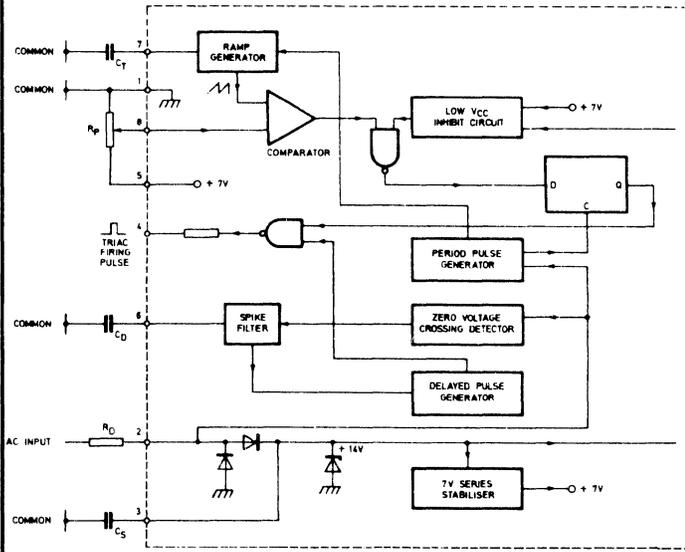


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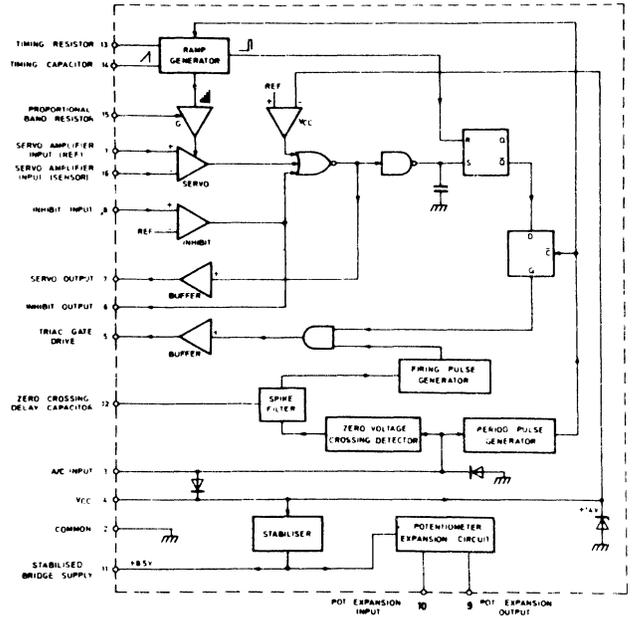


14. CIRCUIT DRAWINGS

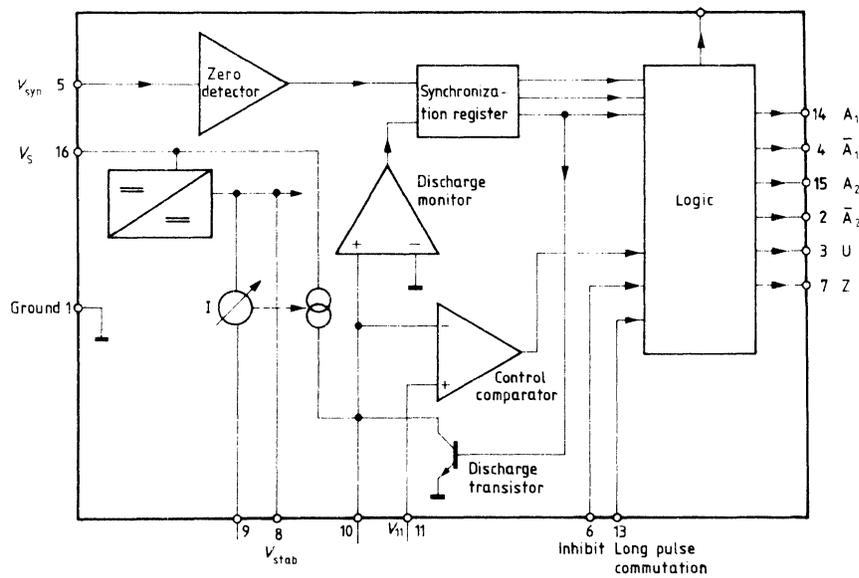
Z6237



Z6238

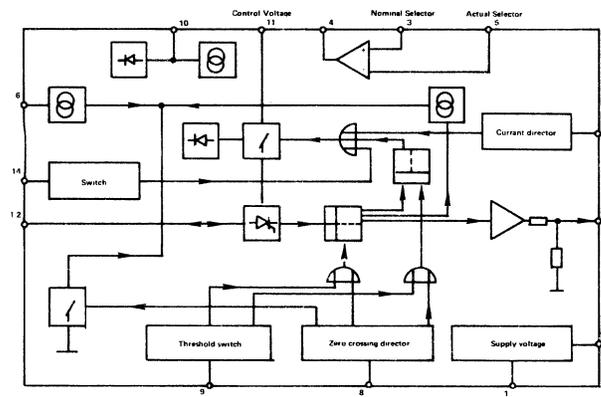


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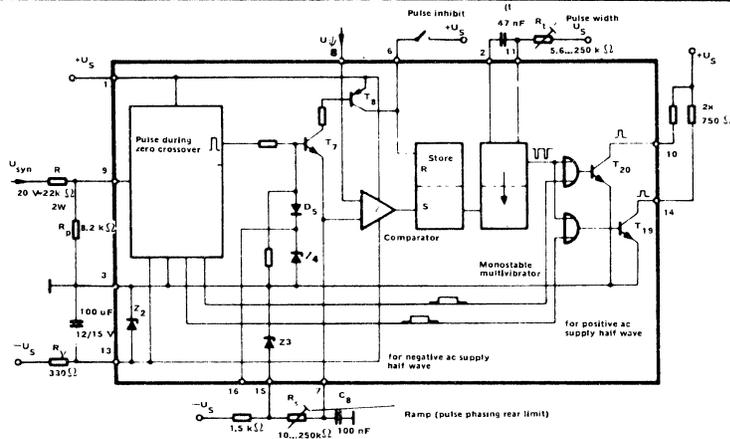


14. CIRCUIT DRAWINGS

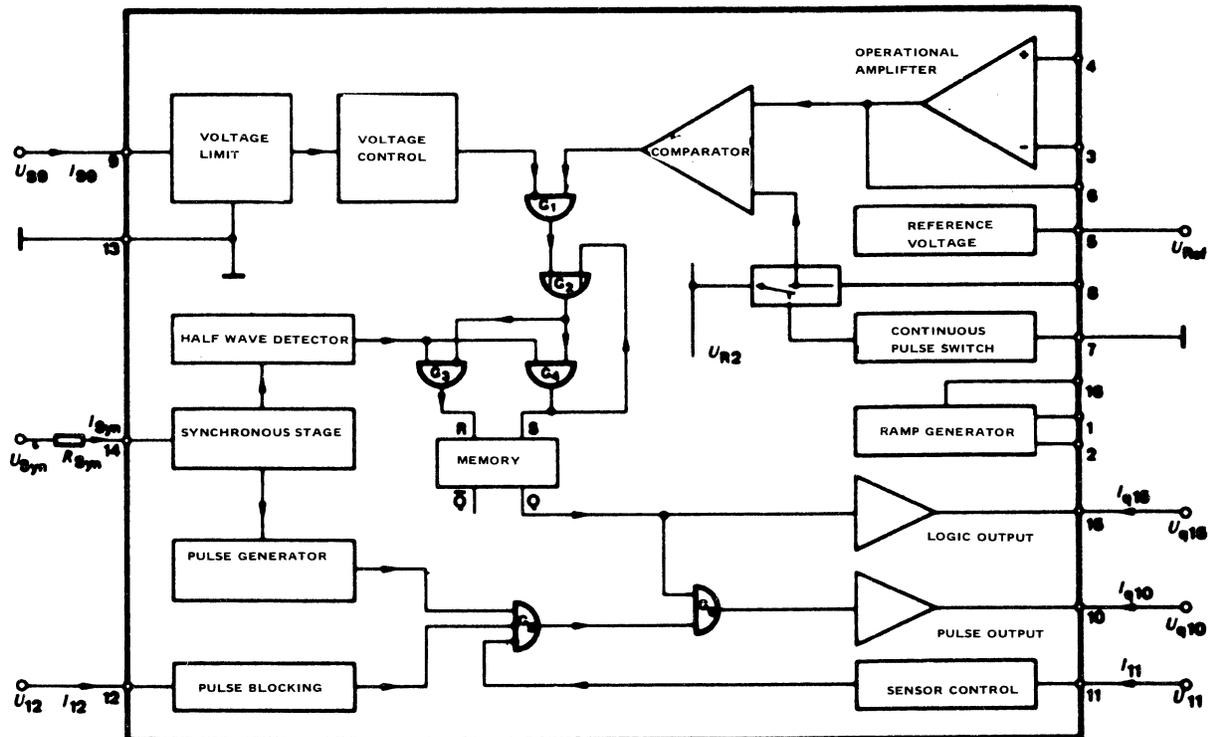
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Z6241

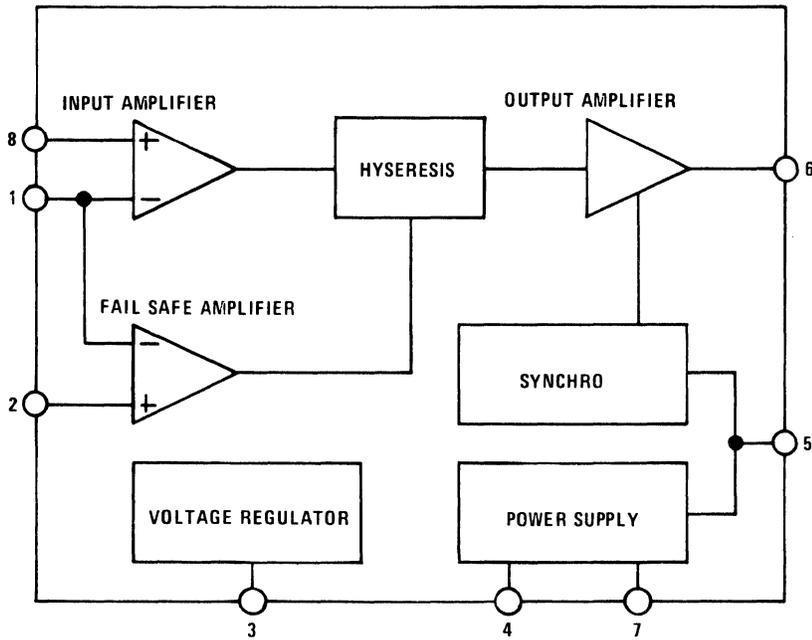


Z6242

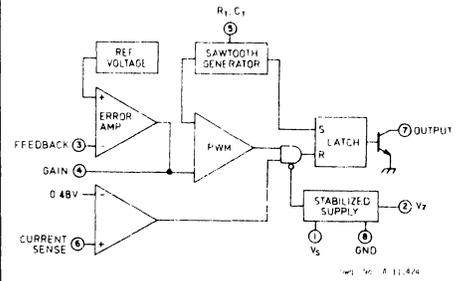


14. CIRCUIT DRAWINGS

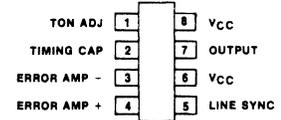
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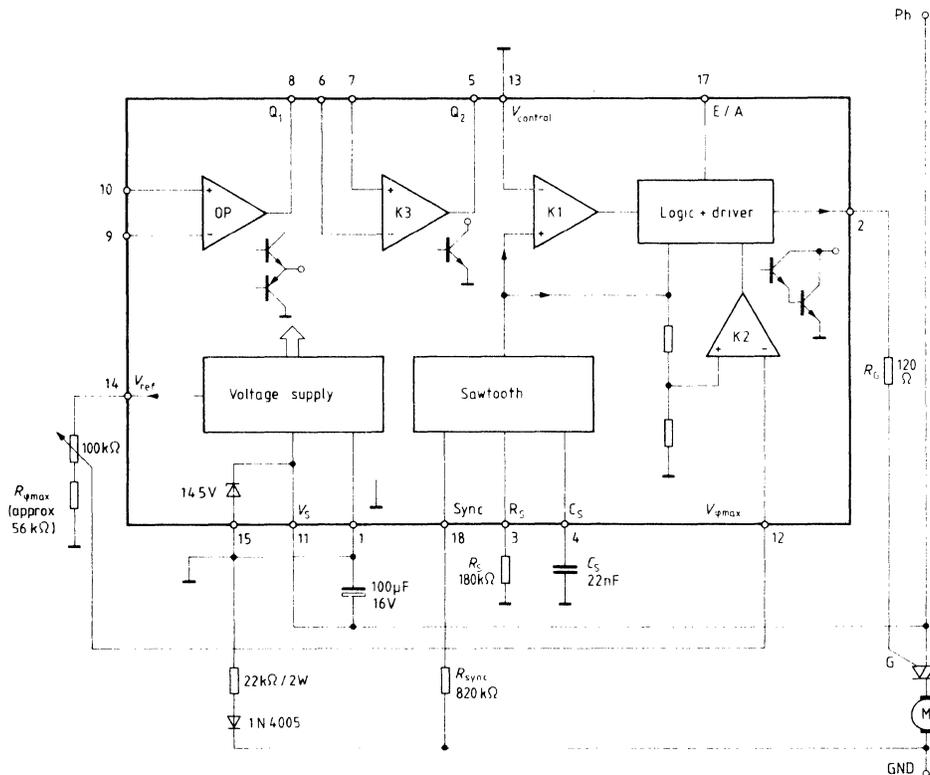
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Z6247

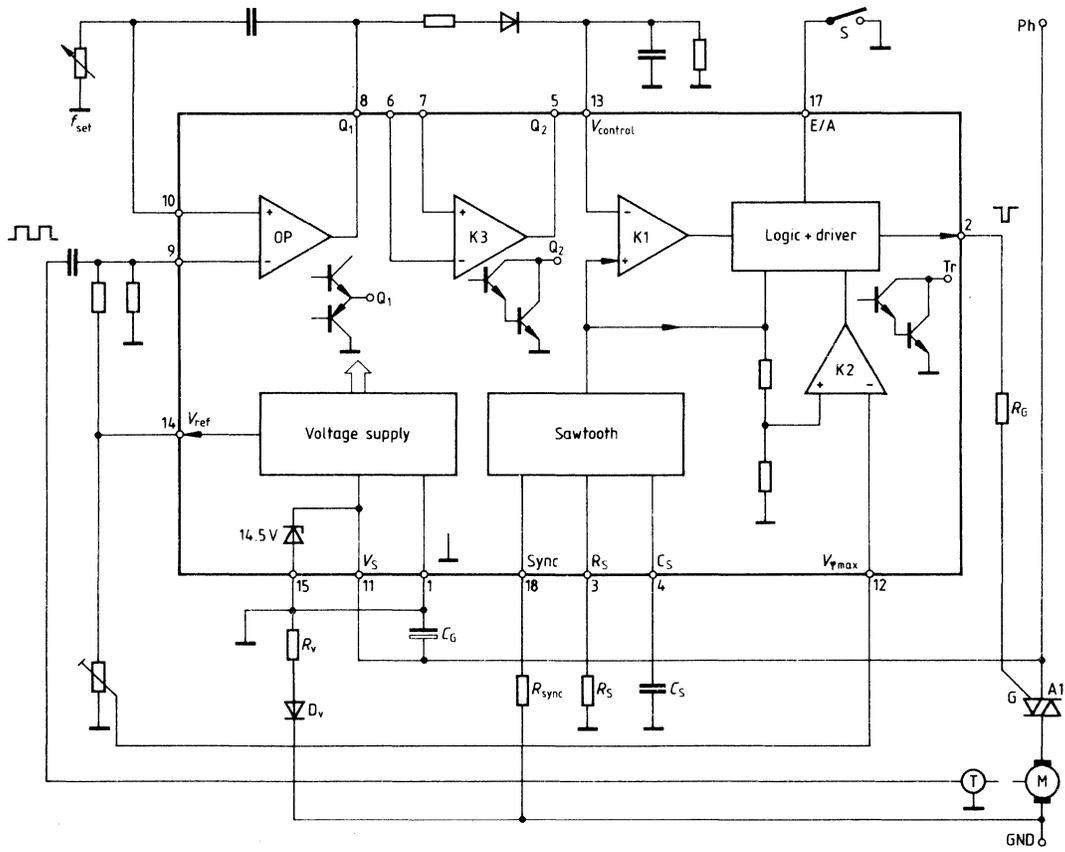


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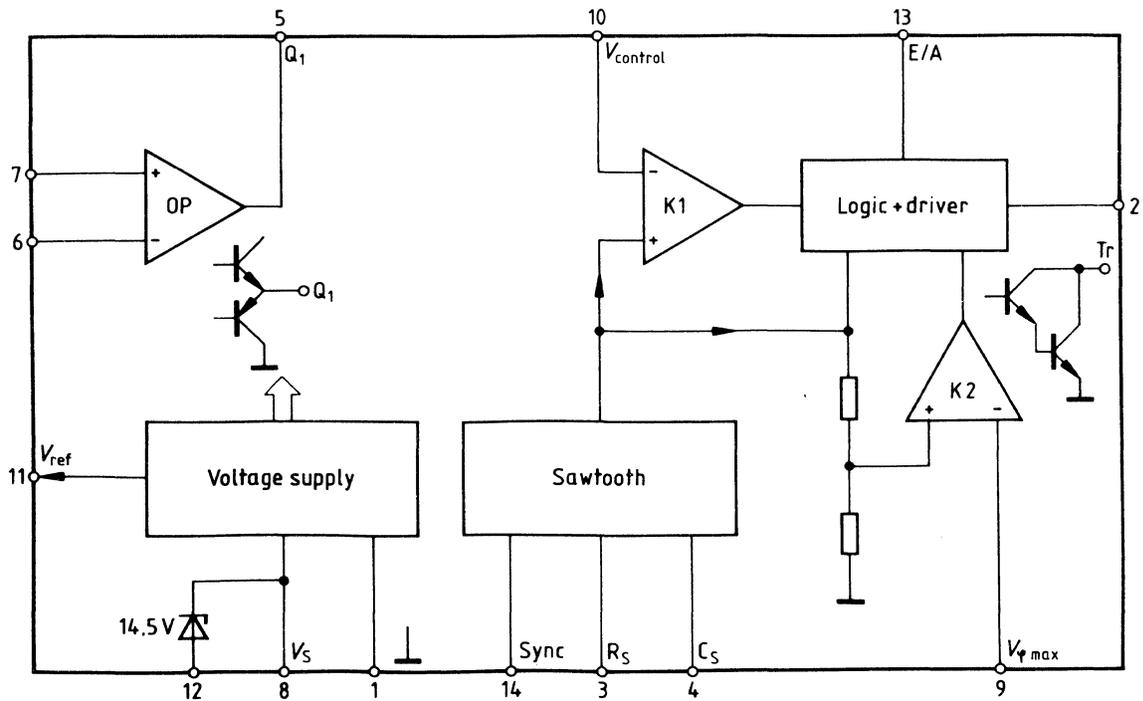


14. CIRCUIT DRAWINGS

Z6249

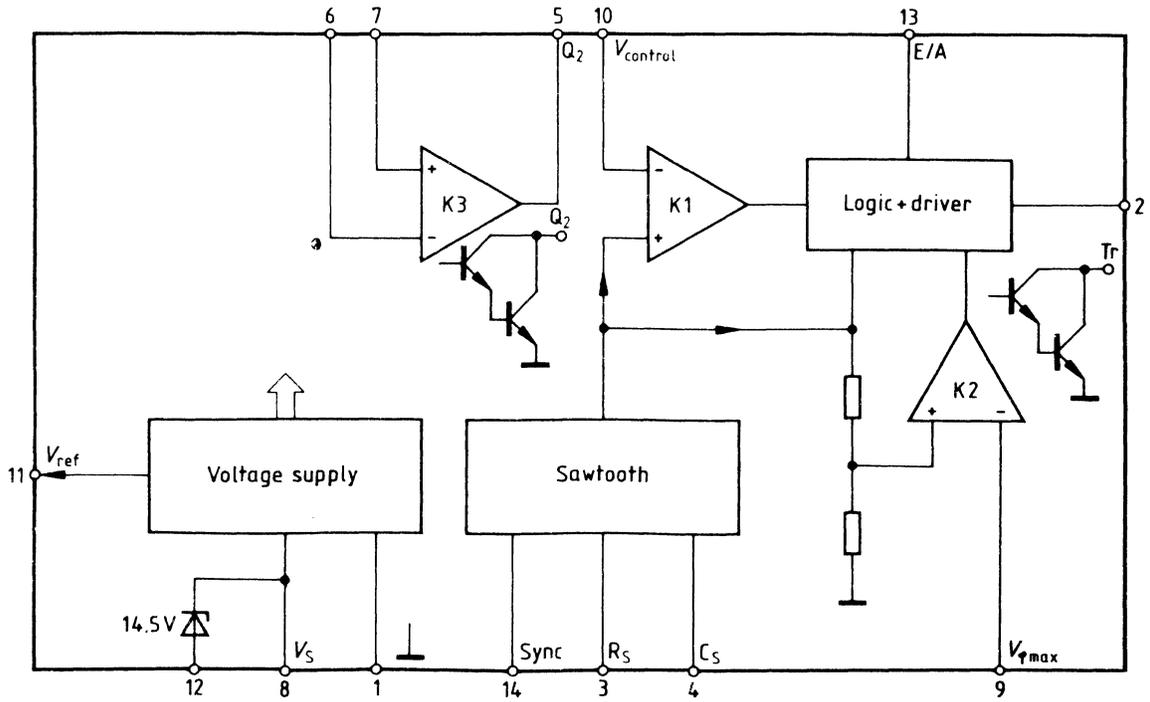


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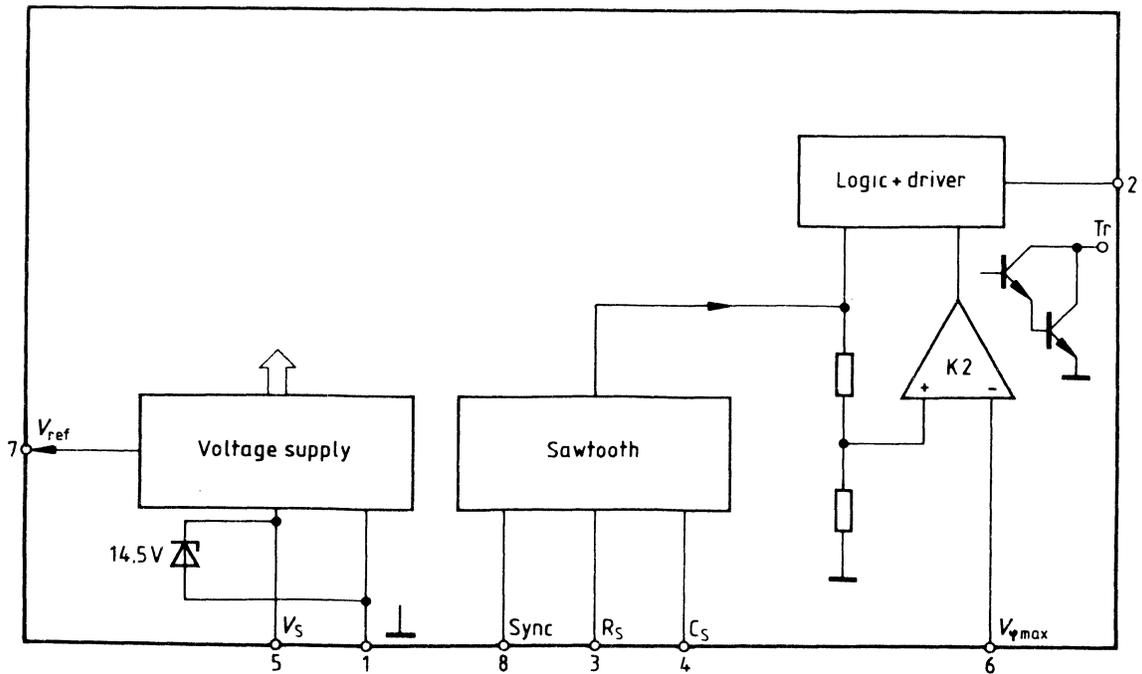


14. CIRCUIT DRAWINGS

Z6251



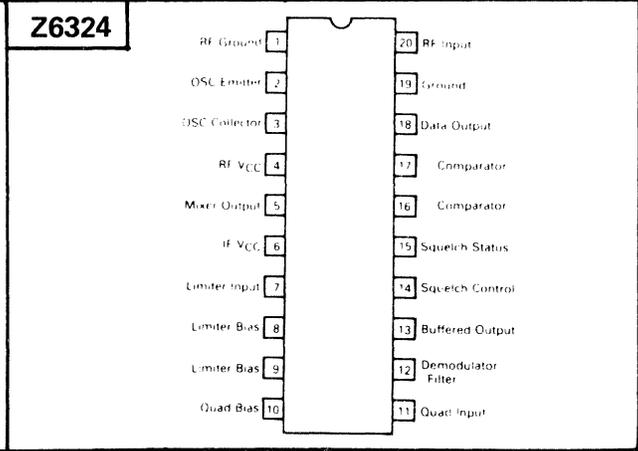
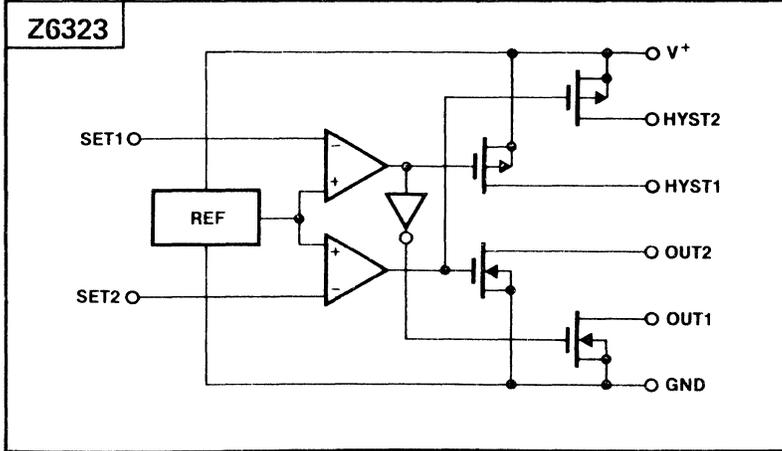
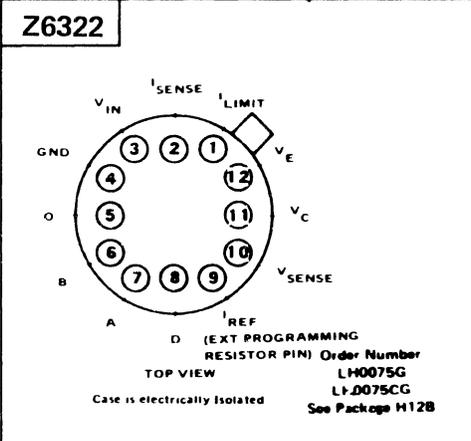
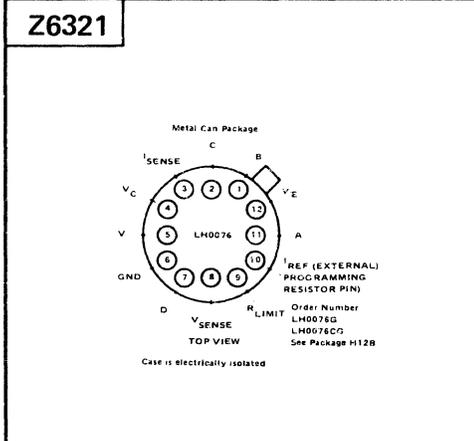
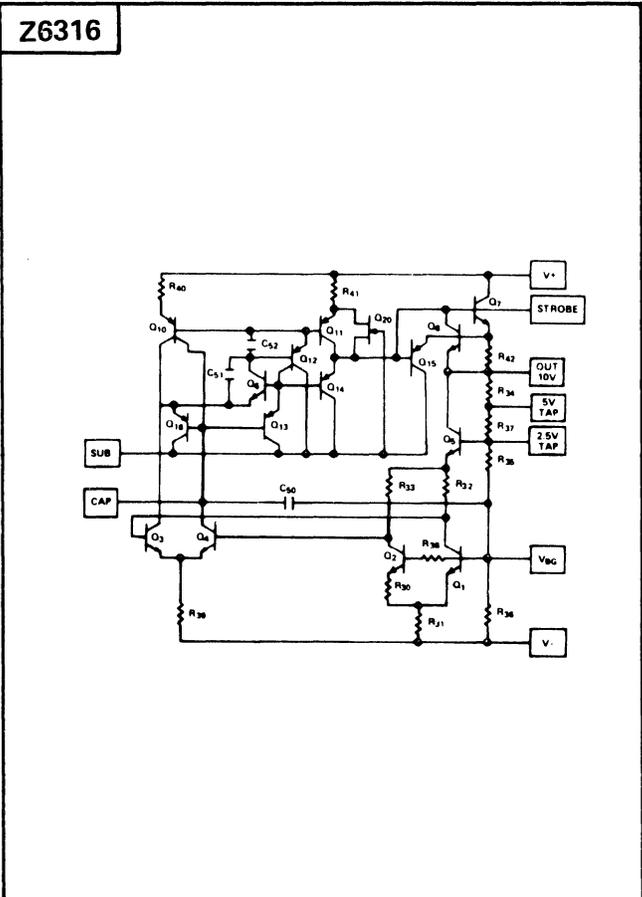
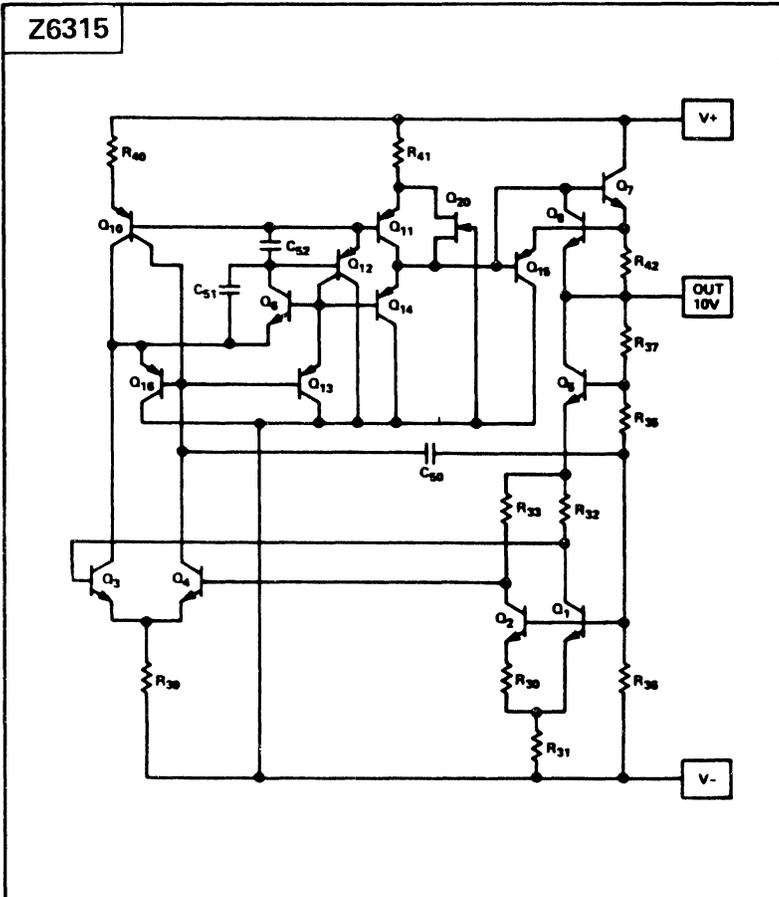
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14. CIRCUIT DRAWINGS

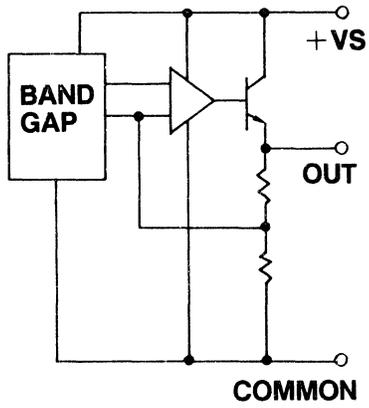
<p>Z6301</p> <p>INPUT 1, OUTPUT 2, GND (CASE) 3</p> <p>BOTTOM VIEW</p>	<p>Z6302</p> <p>BOTTOM VIEW</p> <p>BOTTOM VIEW</p>	<p>Z6303 Z6304</p> <p>1 VIN, 2 VOUT, 3 TRIM, 4 GROUND (CASE), 5 TRIM, 6 VOUT, 7 NC, 8 NC</p> <p>1 NC, 2 VIN, 3 NC, 4 GND, 5 TRIM, 6 VOUT, 7 NC, 8 NC</p>																																																																							
<p>Z6307</p> <p>BAND GAP REFERENCE, Av, R_{EXT}, C_S SHAPING CAPACITOR, V_{CC}, V_{REF}, 0V</p> <p>Viewed from below</p>	<p>Z6308</p> <p>BAND GAP REFERENCE, Av, R_{EXT}, C_S SHAPING CAPACITOR, V_{CC}, V_{REF}, 0V</p> <p>Viewed from below</p>	<p>Z6303</p> <p>1 NC, 2 VIN, 3 NC, 4 GND, 5 TRIM, 6 VOUT, 7 NC, 8 NC</p> <p>1 NC, 2 VIN, 3 TEMP, 4 GROUND CASE, 5 TRIM, 6 VOUT, 7 NC, 8 NC</p>																																																																							
<p>Z6309</p> <p>BOTTOM VIEW</p>	<p>Z6310</p> <p>Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, D1 6.3V, D2 6.3V, 2k, 10 pF, 11.2k, 1k, 4.2k, 2k</p>	<p>Z6303</p> <p>1 AC, 2 VIN, 3 TEMP, 4 GND, 5 TRIM, 6 VOUT, 7 NC, 8 NC</p>																																																																							
<p>Z6312</p> <p>1 V_{in}, 2 V_{out}, 3 Gnd, 4 NC, 5 NC, 6 NC, 7 NC, 8 NC</p> <p>TOP VIEW</p> <p>Gnd, V_{OUT}, V_{IN}</p>	<p>Z6314</p> <p><i>Pin Designations</i></p> <table border="1"> <tr> <td>FINE ADJUST</td> <td>V_{OUT} +10</td> <td>FINE ADJUST +15</td> <td>TEST POINT</td> <td>N/C</td> <td>N/C</td> </tr> <tr> <td>14</td> <td>13</td> <td>12</td> <td>11</td> <td>10</td> <td>9</td> </tr> <tr> <td>8</td> <td>7</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> </tr> <tr> <td>N/C</td> <td>N/C</td> <td>N/C</td> <td>N/C</td> <td>N/C</td> <td>COMMON</td> </tr> </table> <p>AD2702 +10 000 VOLT REFERENCE</p> <table border="1"> <tr> <td>FINE ADJUST</td> <td>V_{OUT} +10</td> <td>FINE ADJUST -15</td> <td>TEST POINT</td> <td>N/C</td> <td>N/C</td> </tr> <tr> <td>14</td> <td>13</td> <td>12</td> <td>11</td> <td>10</td> <td>9</td> </tr> <tr> <td>8</td> <td>7</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> </tr> <tr> <td>N/C</td> <td>N/C</td> <td>N/C</td> <td>N/C</td> <td>N/C</td> <td>COMMON</td> </tr> </table> <p>AD2701 10 000 VOLT REFERENCE</p> <table border="1"> <tr> <td>FINE ADJUST</td> <td>V_{OUT} +10</td> <td>FINE ADJUST -15</td> <td>TEST POINT</td> <td>N/C</td> <td>N/C</td> </tr> <tr> <td>14</td> <td>13</td> <td>12</td> <td>11</td> <td>10</td> <td>9</td> </tr> <tr> <td>8</td> <td>7</td> <td>6</td> <td>5</td> <td>4</td> <td>3</td> </tr> <tr> <td>N/C</td> <td>N/C</td> <td>N/C</td> <td>N/C</td> <td>N/C</td> <td>COMMON</td> </tr> </table>	FINE ADJUST	V _{OUT} +10	FINE ADJUST +15	TEST POINT	N/C	N/C	14	13	12	11	10	9	8	7	6	5	4	3	N/C	N/C	N/C	N/C	N/C	COMMON	FINE ADJUST	V _{OUT} +10	FINE ADJUST -15	TEST POINT	N/C	N/C	14	13	12	11	10	9	8	7	6	5	4	3	N/C	N/C	N/C	N/C	N/C	COMMON	FINE ADJUST	V _{OUT} +10	FINE ADJUST -15	TEST POINT	N/C	N/C	14	13	12	11	10	9	8	7	6	5	4	3	N/C	N/C	N/C	N/C	N/C	COMMON
FINE ADJUST	V _{OUT} +10	FINE ADJUST +15	TEST POINT	N/C	N/C																																																																				
14	13	12	11	10	9																																																																				
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N/C	N/C	N/C	N/C	N/C	COMMON																																																																				
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14. CIRCUIT DRAWINGS

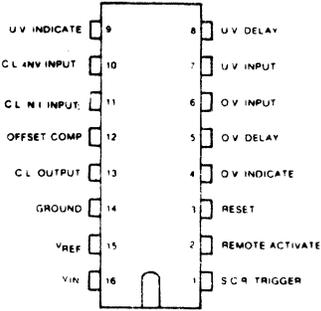


14. CIRCUIT DRAWINGS

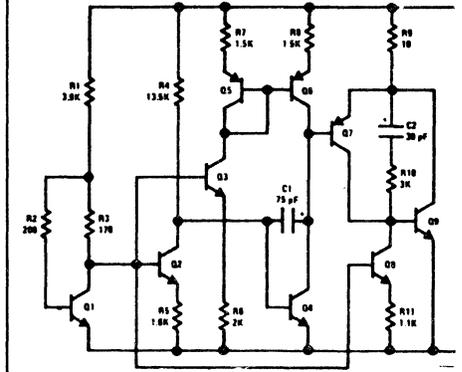
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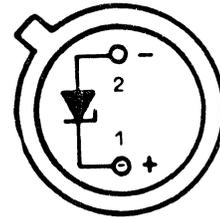
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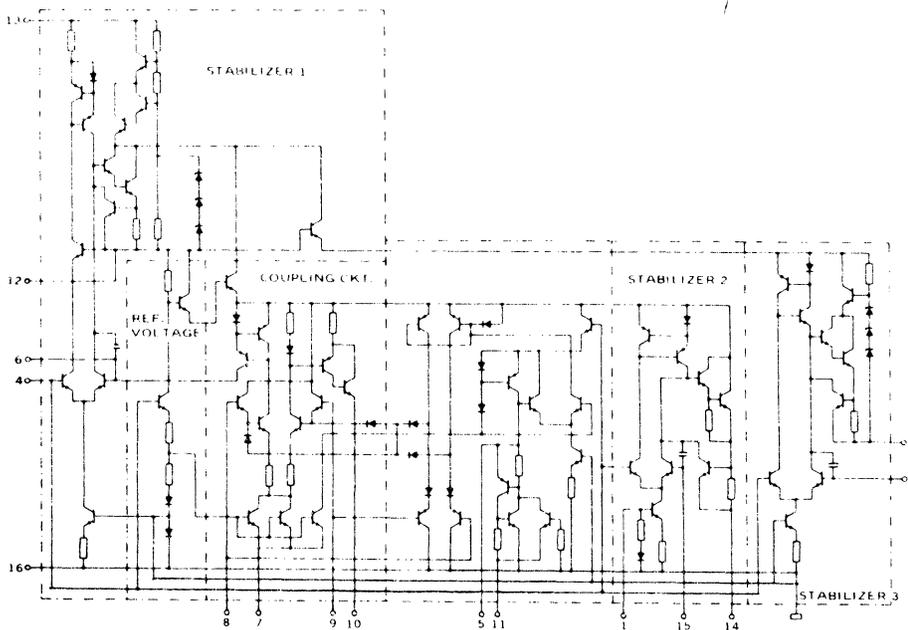
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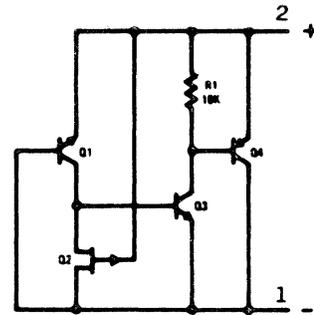
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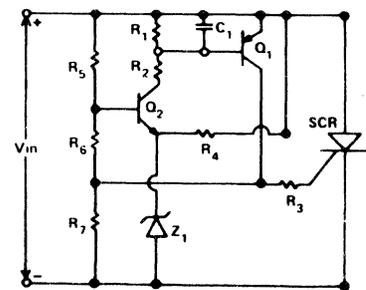
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Z6405



Z6406



14. CIRCUIT DRAWINGS

Z6407

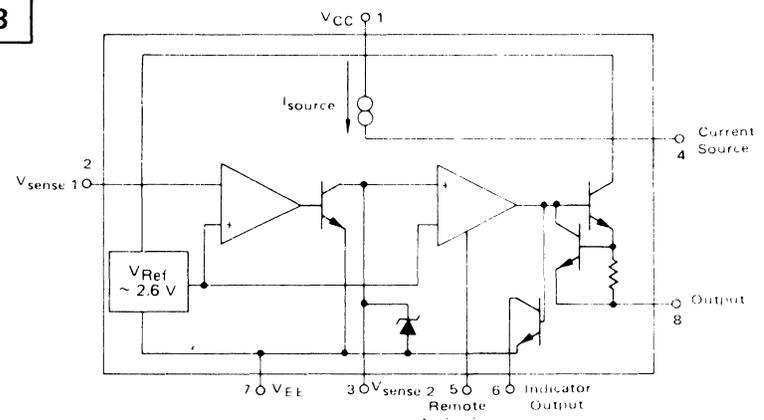


3 (CASE)

PIN CONNECTIONS

1. No connection -- but this pin must be left floating for proper operation of OV
2. +V - disconnect to reset
3. (Case) -- V

Z6408



V_{CC} 1

I_{source}

Current Source 4

V_{sense} 1 2

V_{Ref} ~ 2.6 V

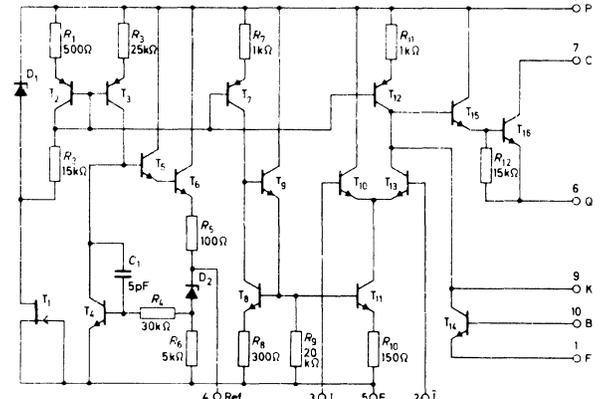
7 0 V_{EE}

3 0 V_{sense} 2 5 0 6 0

Indicator Remote Output Activation

8

Z6410



8 0 P

7 0 C

6 0 Q

9 0 K

10 0 B

1 0 F

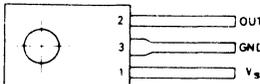
4 0 Ref

3 0 I

5 0 F

2 0 I

Z6411

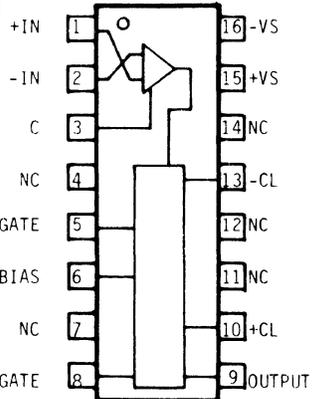


2 0 OUT

3 0 GND

1 0 V_s

Z6415



+IN 1

-IN 2

C 3

NC 4

P-GATE 5

BIAS 6

NC 7

N-GATE 8

16 -VS

15 +VS

14 NC

13 -CL

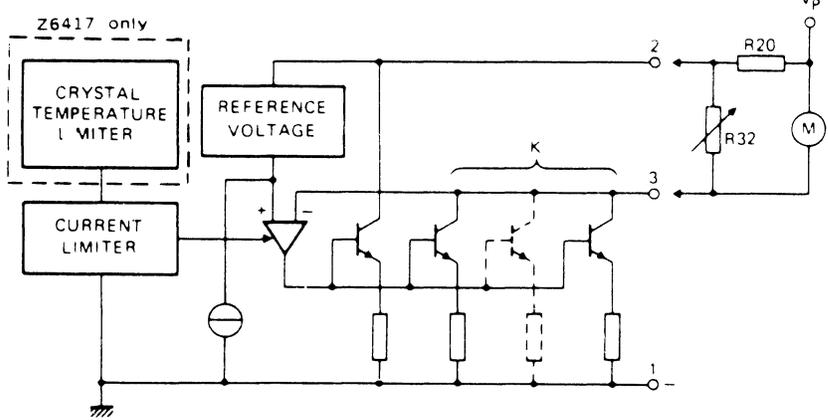
12 NC

11 NC

10 +CL

9 OUTPUT

Z6418



Z6417 only

CRYSTAL TEMPERATURE MITER

REFERENCE VOLTAGE

CURRENT LIMITER

2

3

1

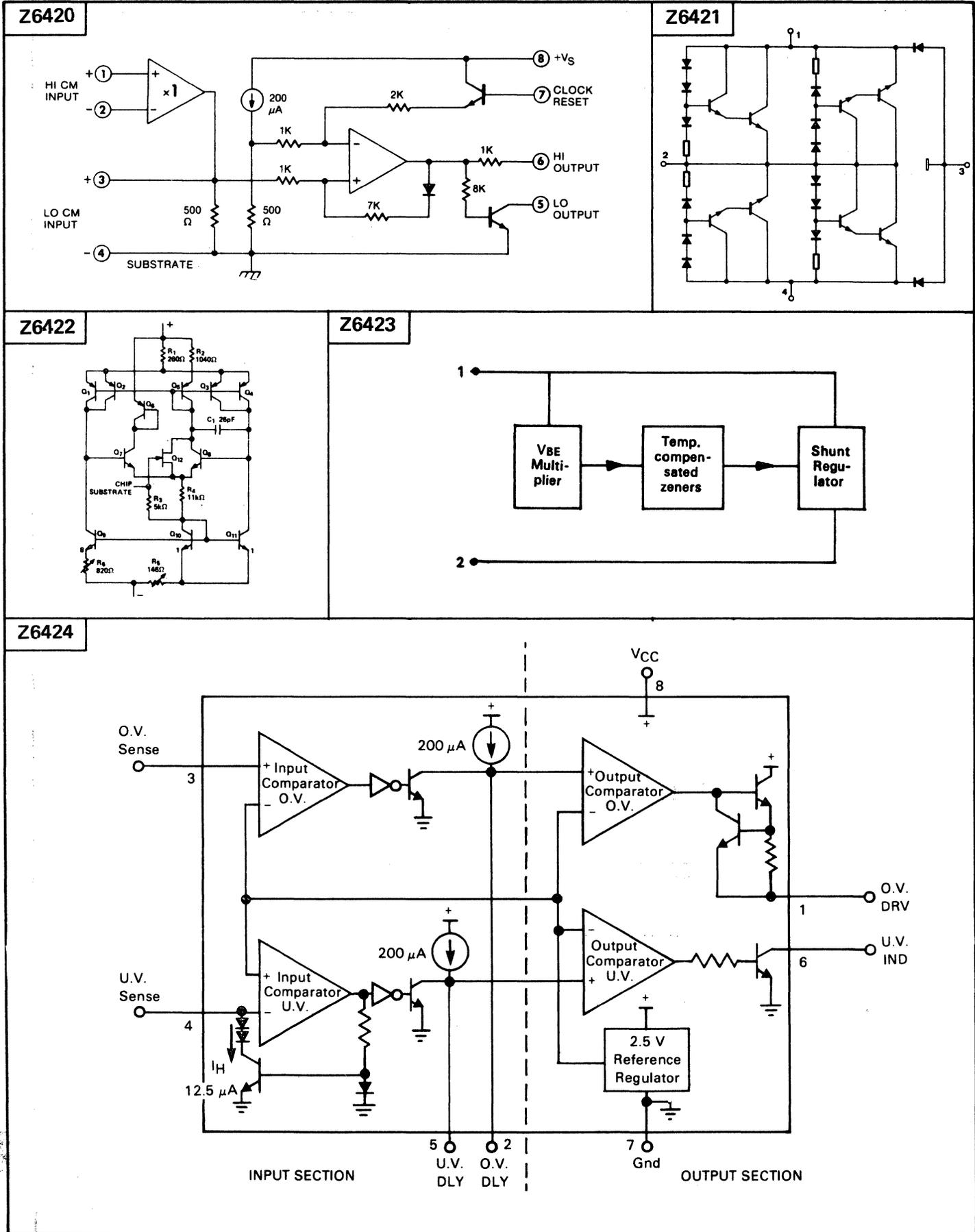
V_p

R20

R32

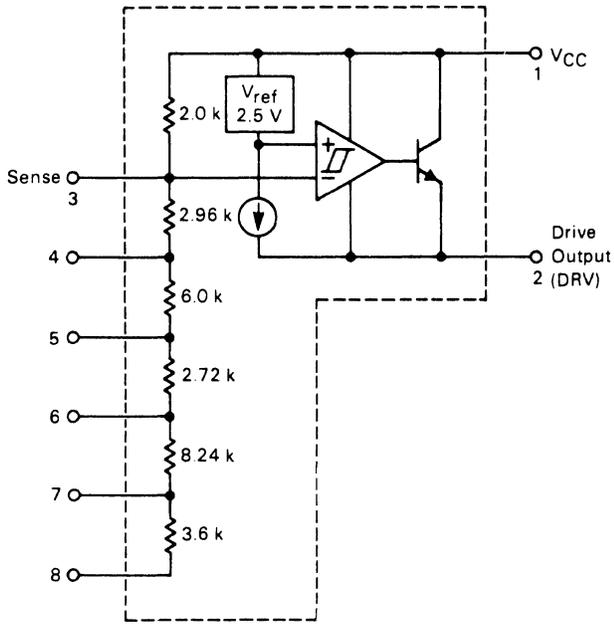
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14. CIRCUIT DRAWINGS

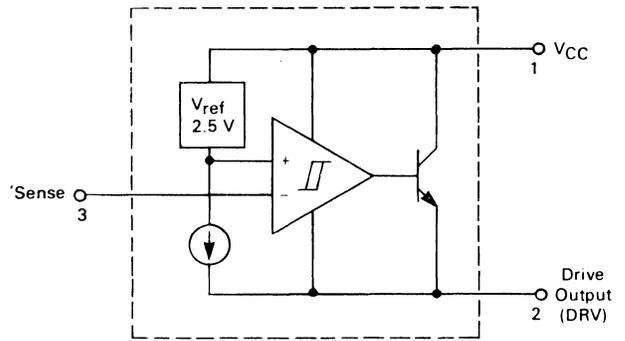


14. CIRCUIT DRAWINGS

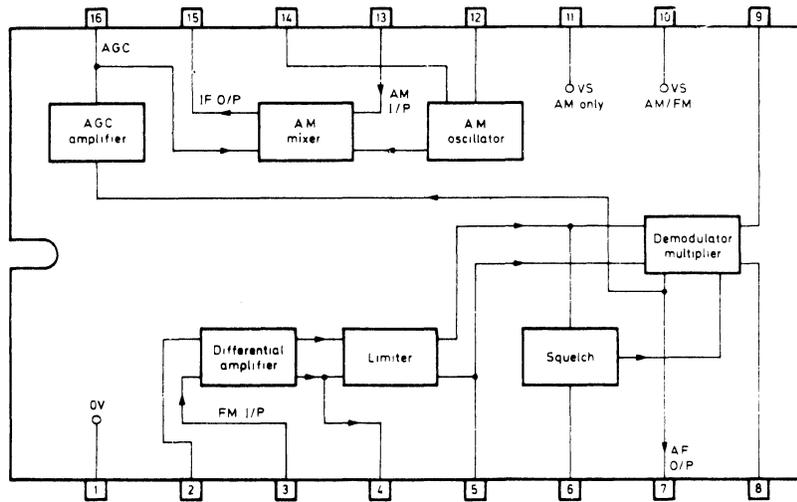
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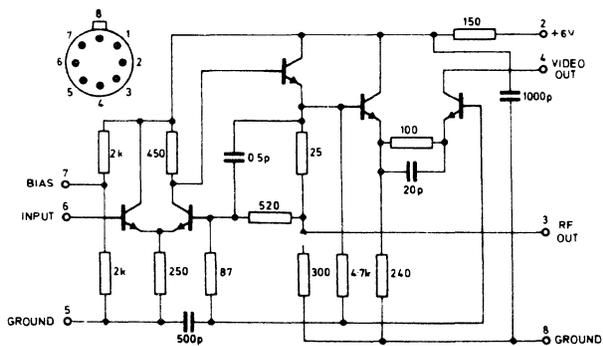
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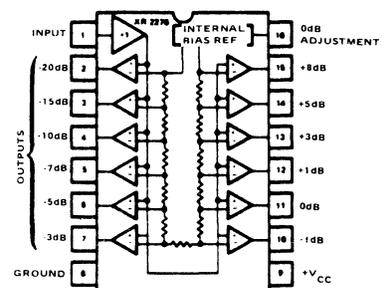
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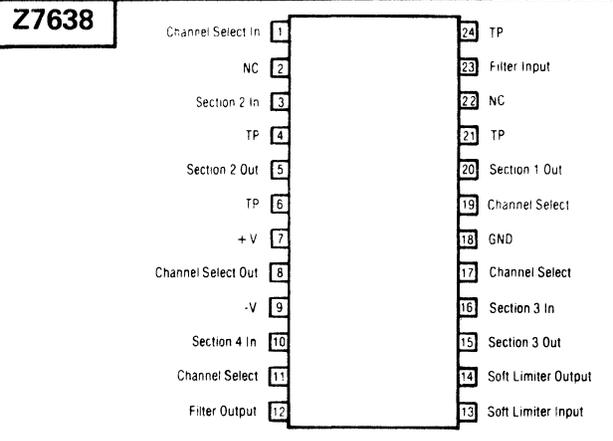
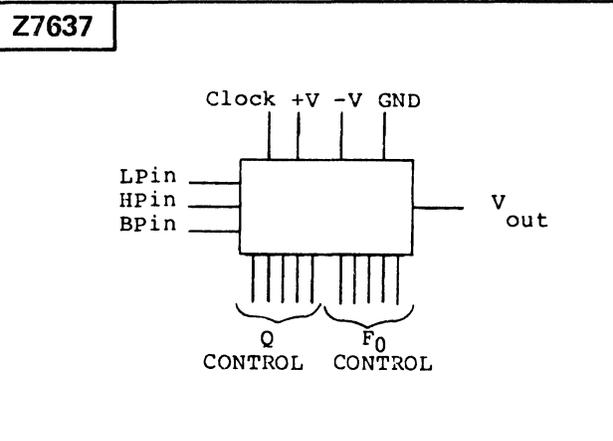
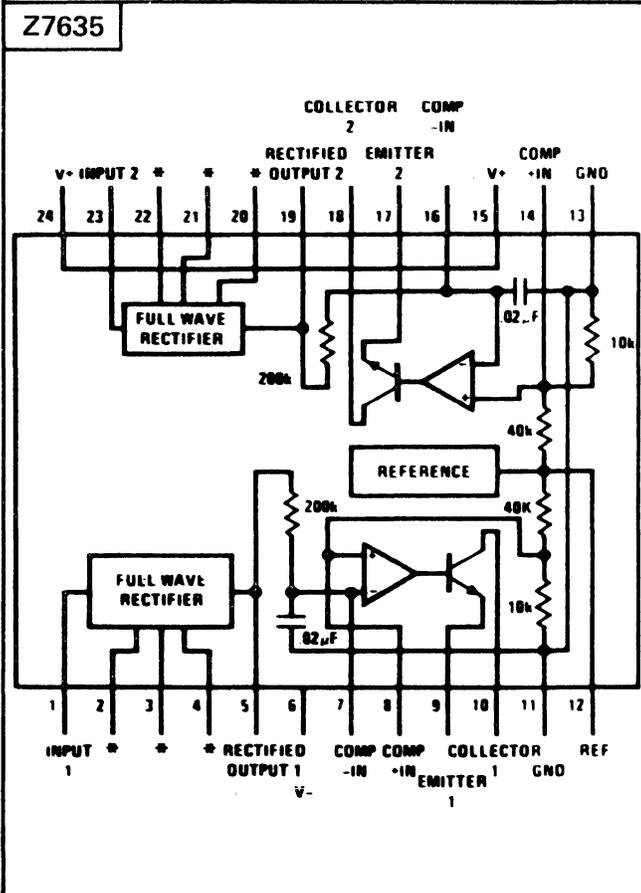
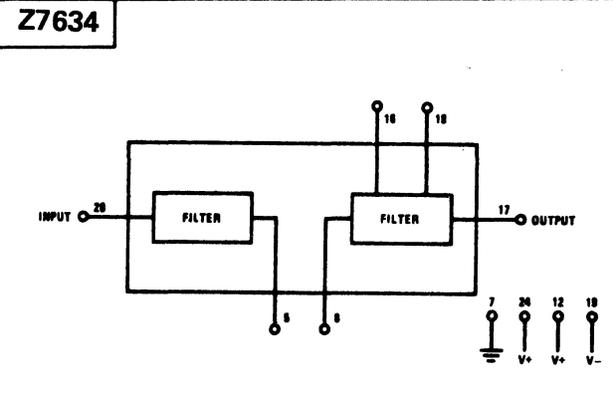
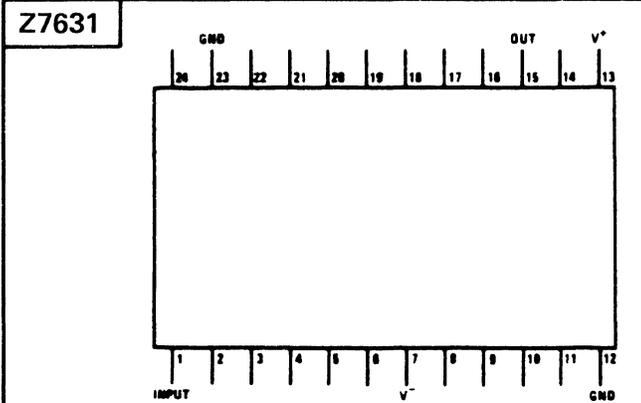
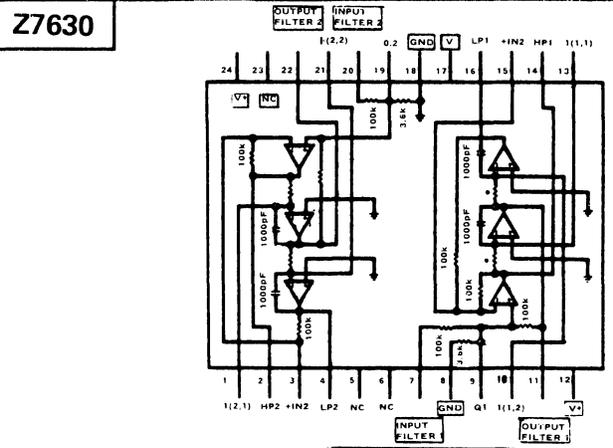
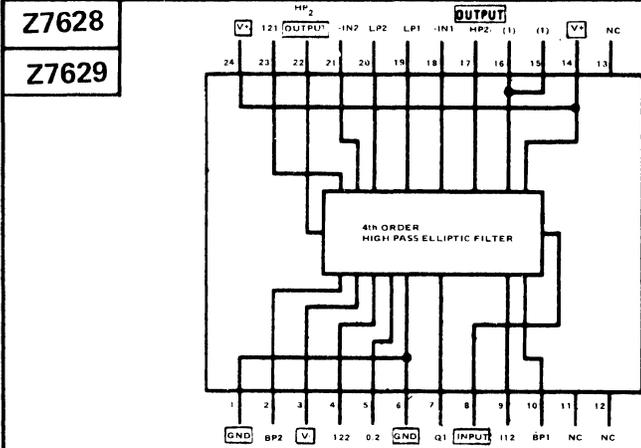
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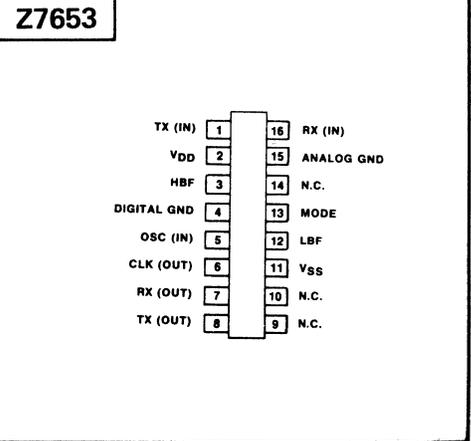
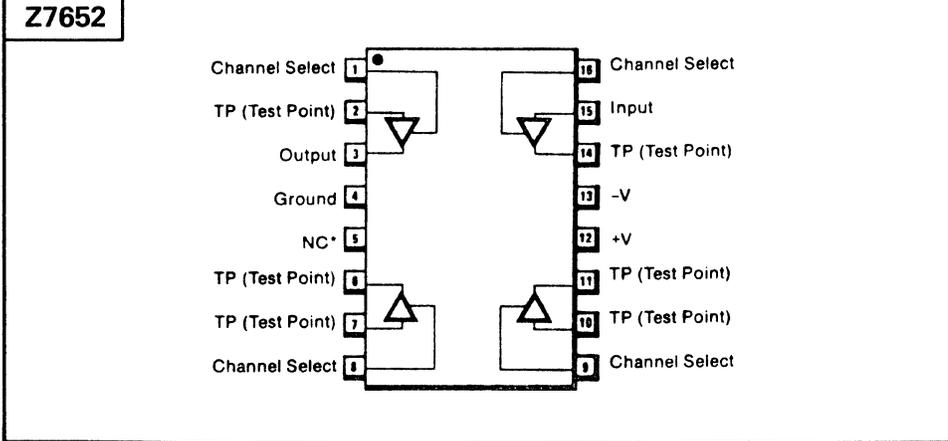
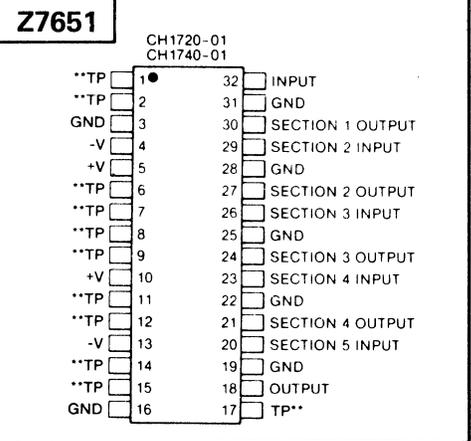
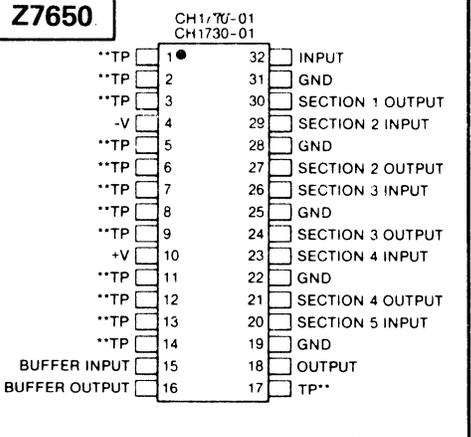
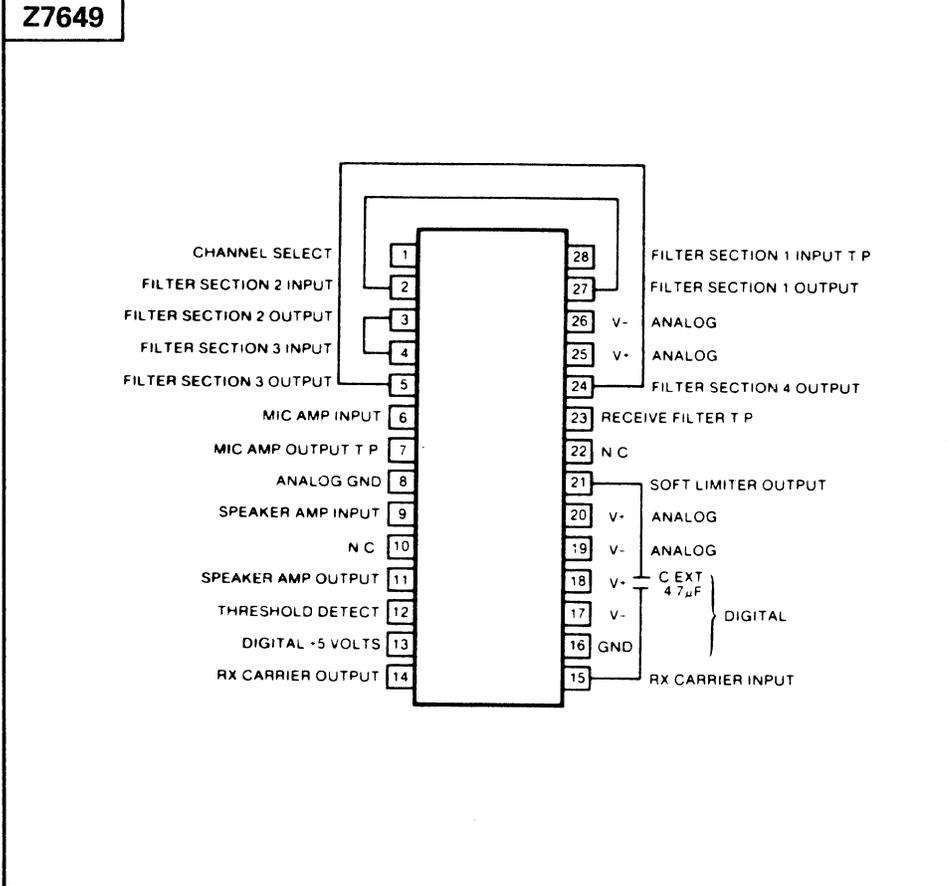
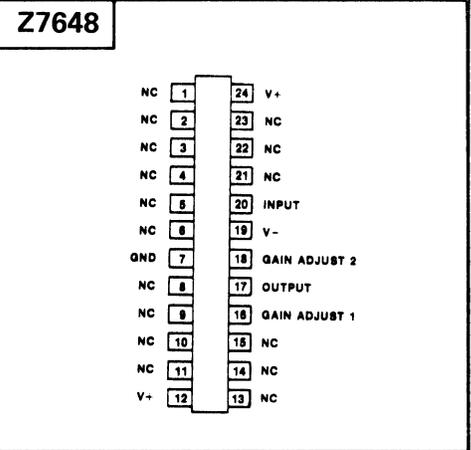
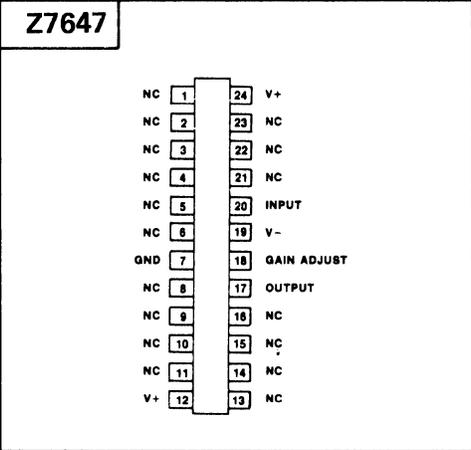
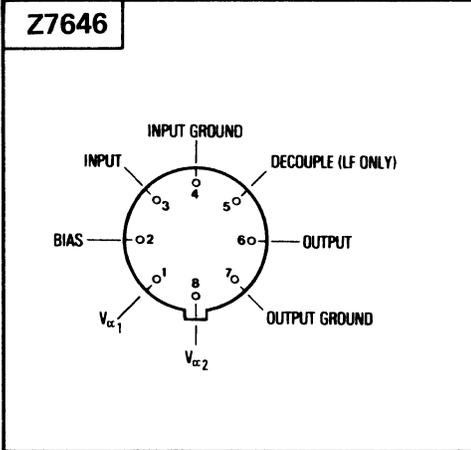
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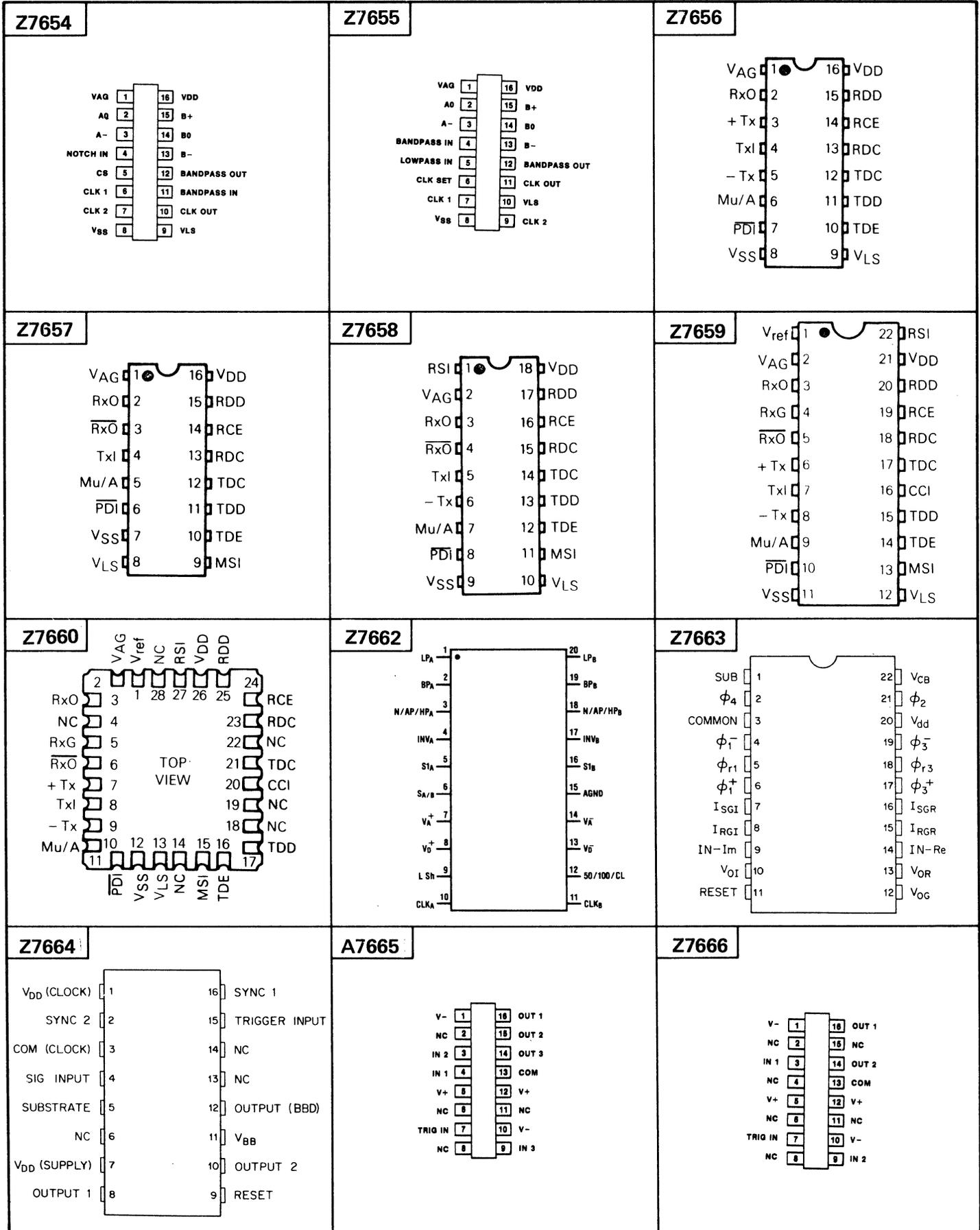
14. CIRCUIT DRAWINGS



14. CIRCUIT DRAWINGS

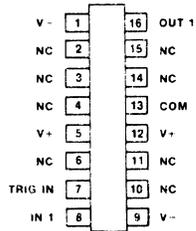


14. CIRCUIT DRAWINGS

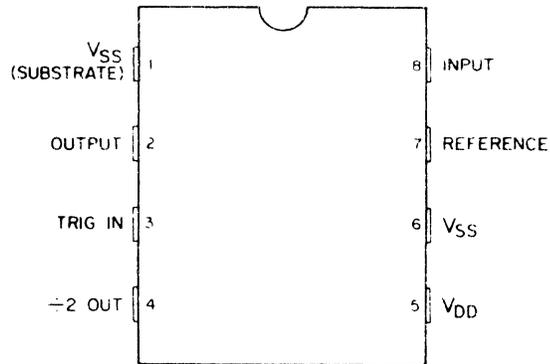


14. CIRCUIT DRAWINGS

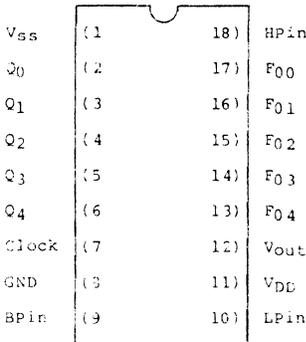
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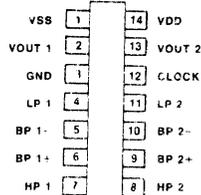
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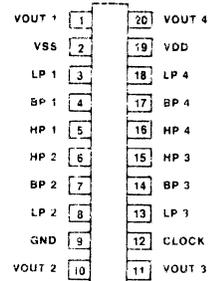
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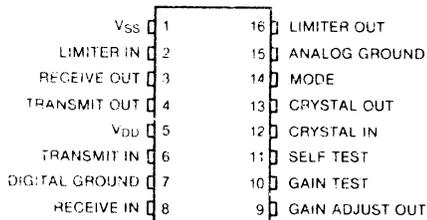
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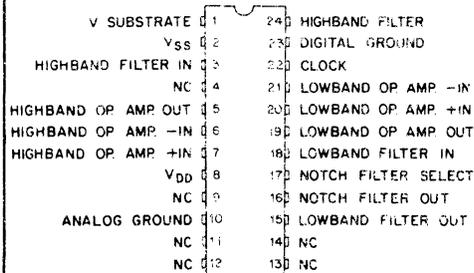
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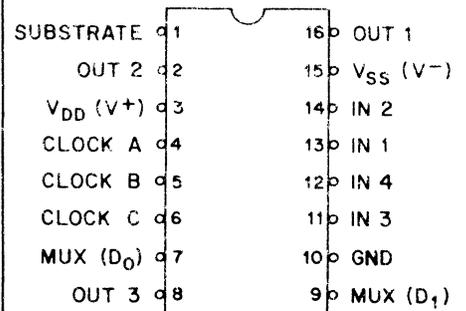
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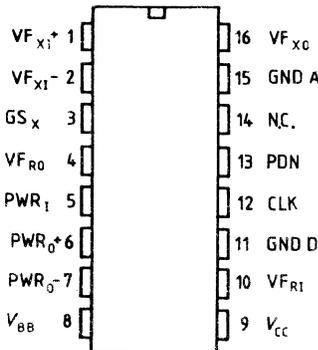
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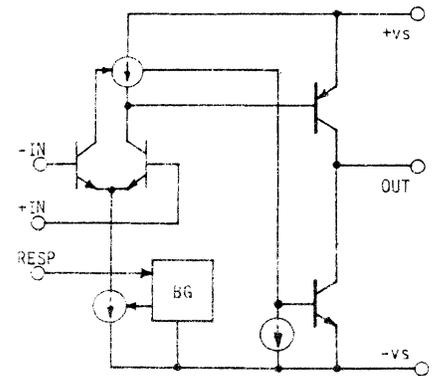
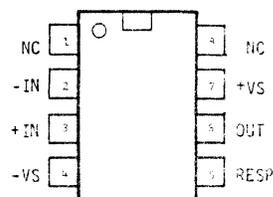
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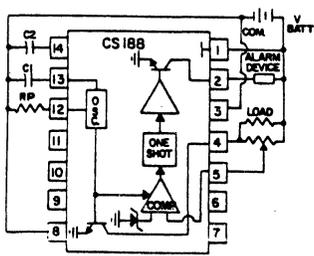


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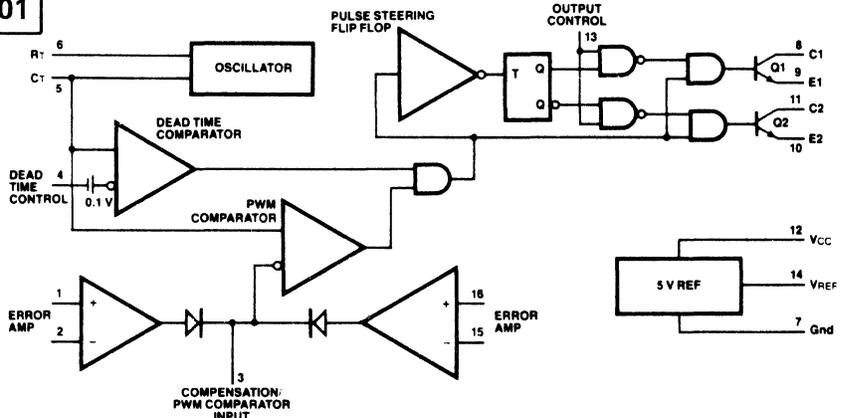


14. CIRCUIT DRAWINGS

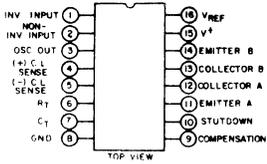
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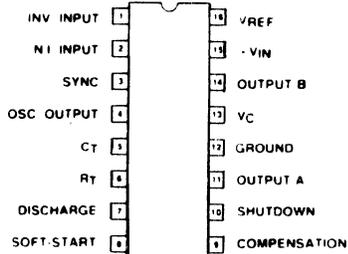
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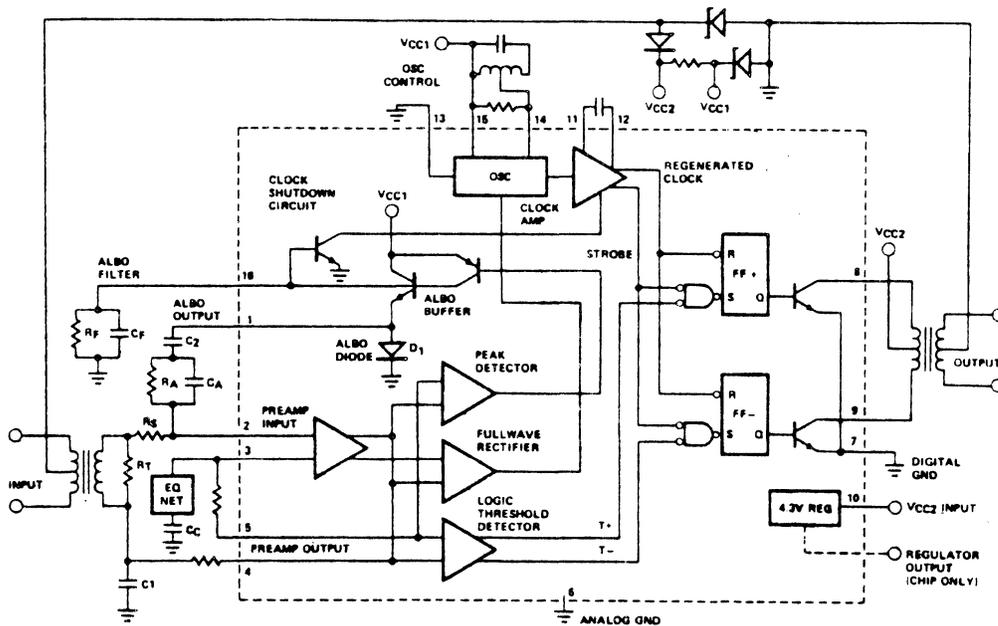
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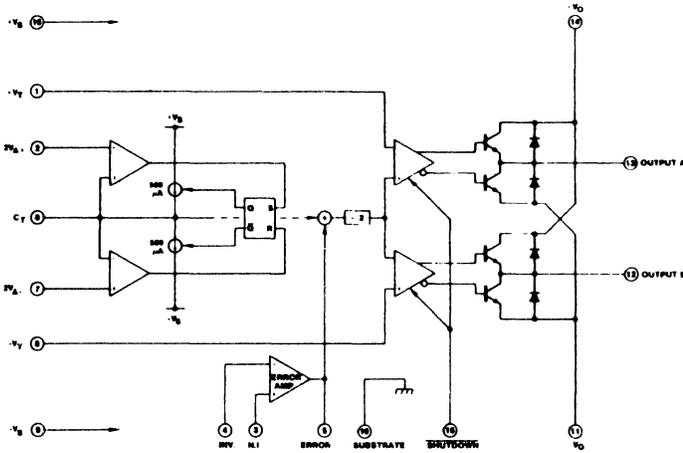


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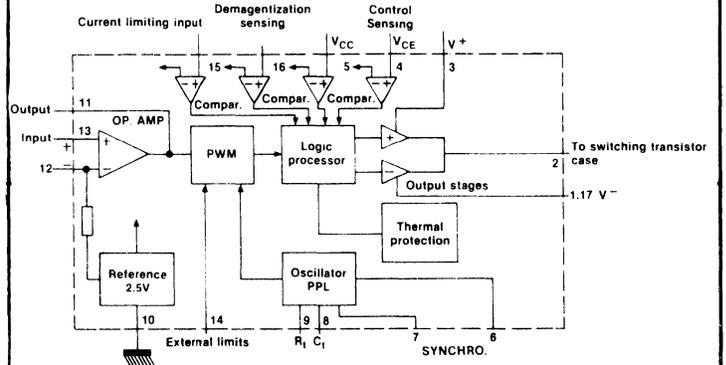


14. CIRCUIT DRAWINGS

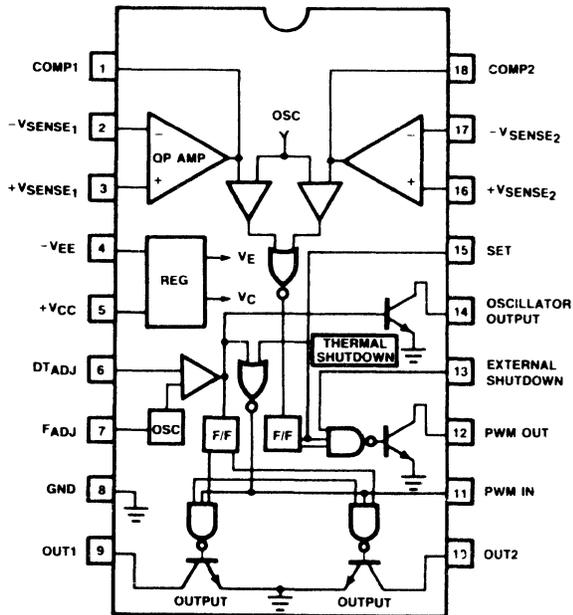
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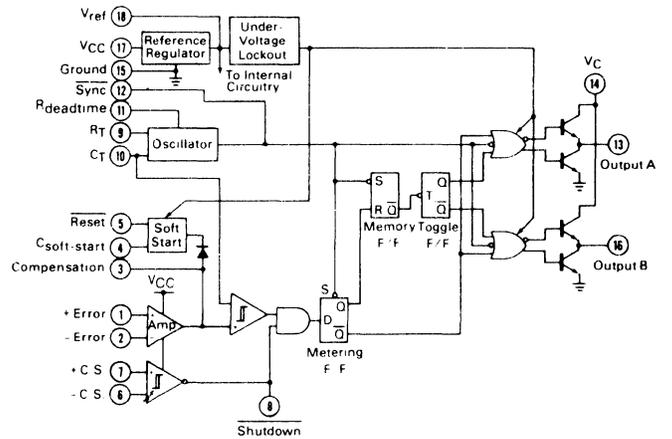
Z8006



Z8007

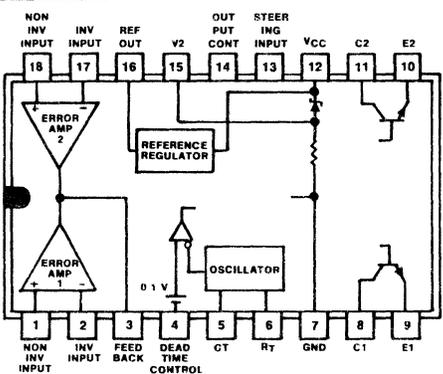


Z8008

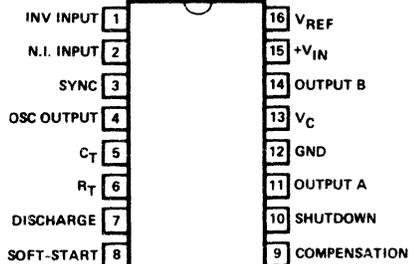


14. CIRCUIT DRAWINGS

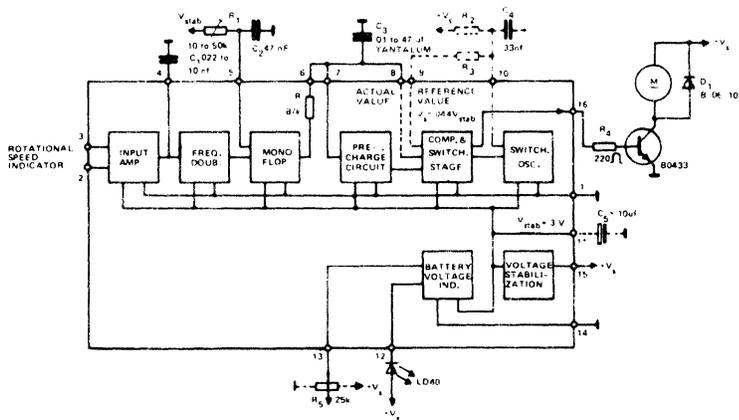
Z8011



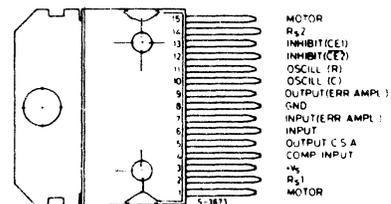
Z8012



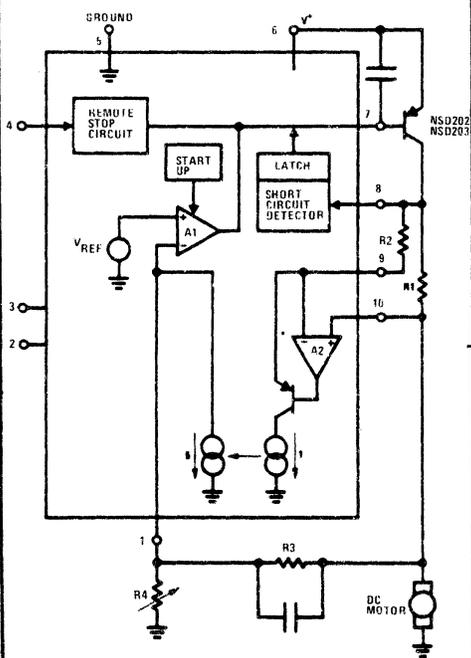
Z8101



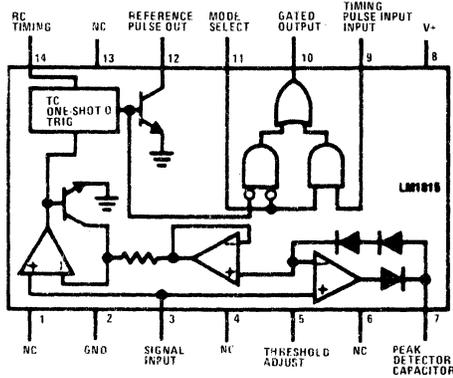
Z8102



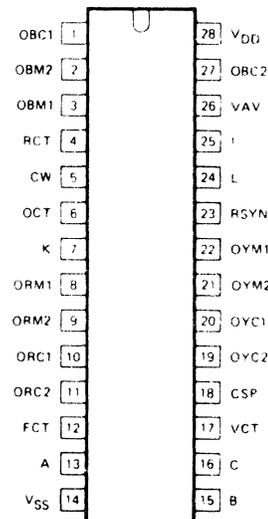
Z8103



Z8104

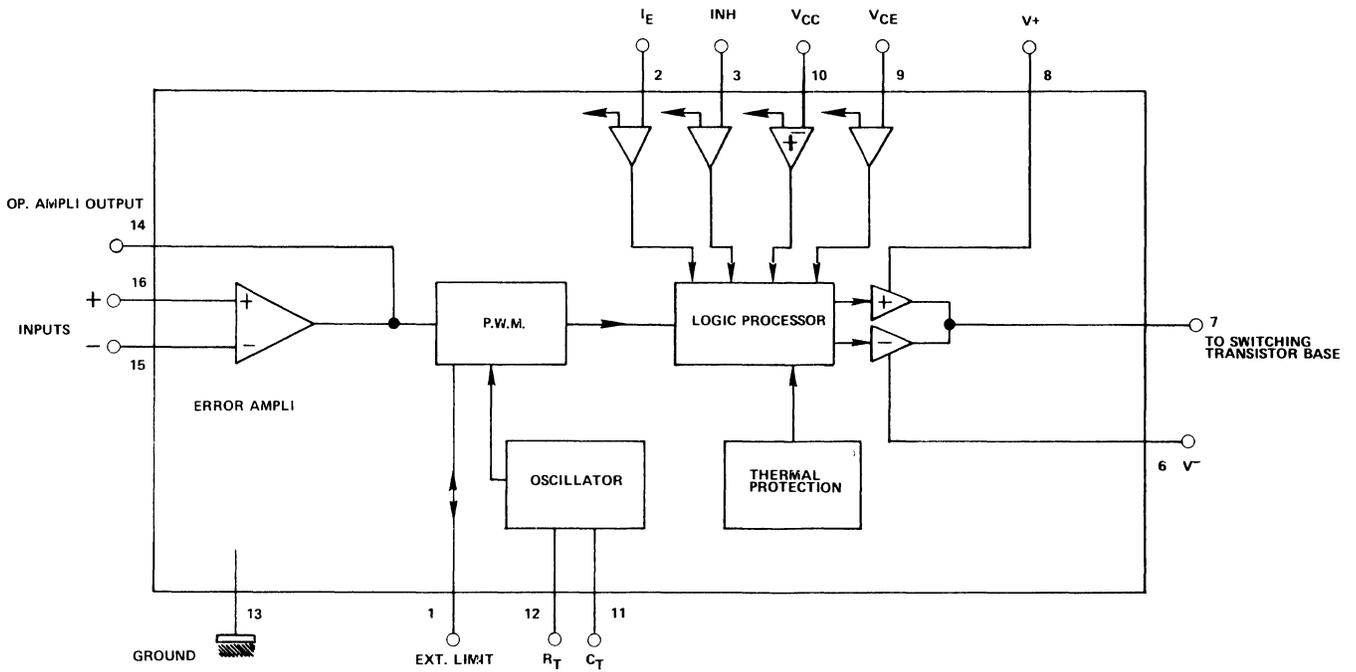


Z8107

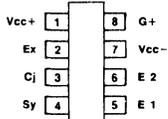


14. CIRCUIT DRAWINGS

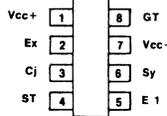
Z8108



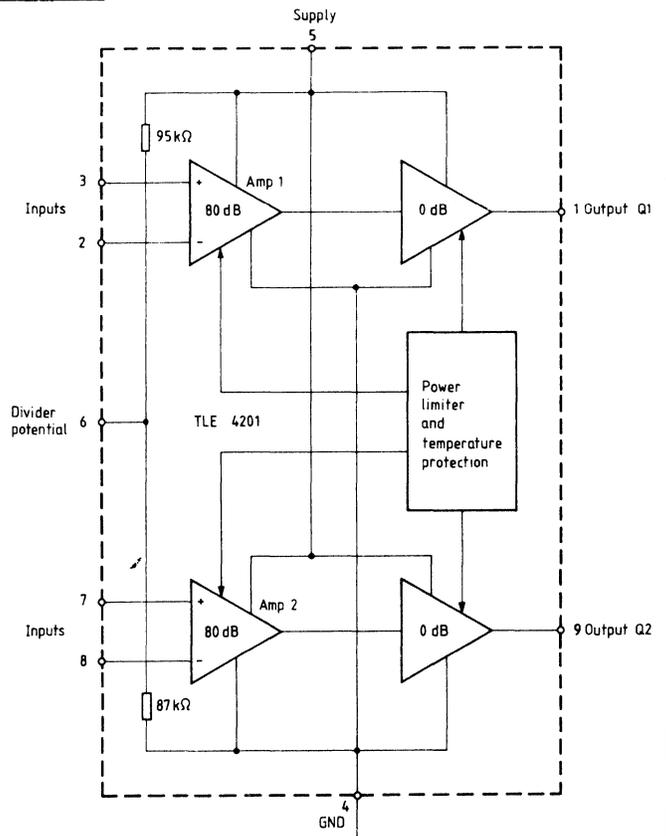
Z8109



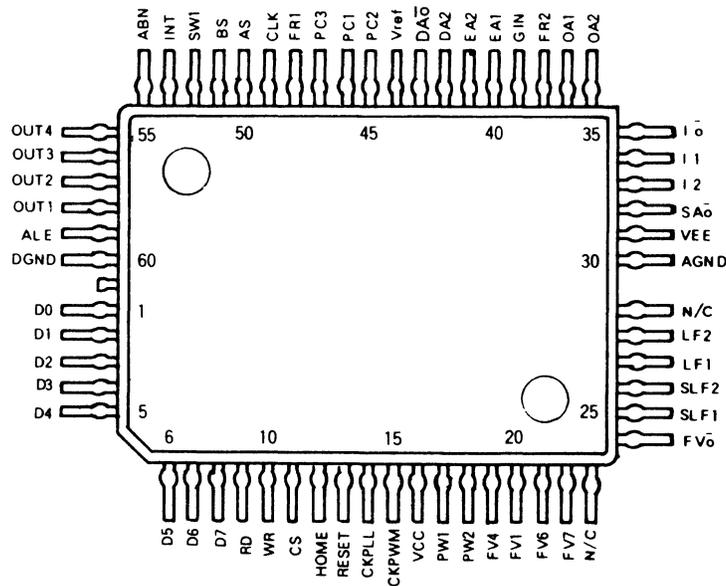
Z8110



Z8113

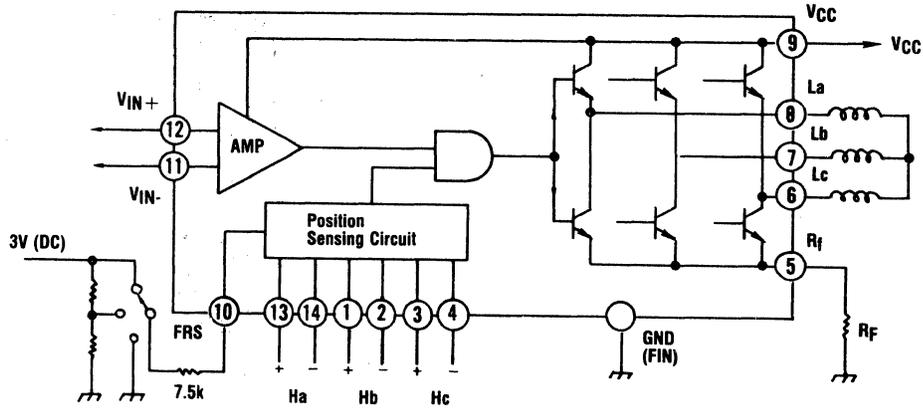


Z8112



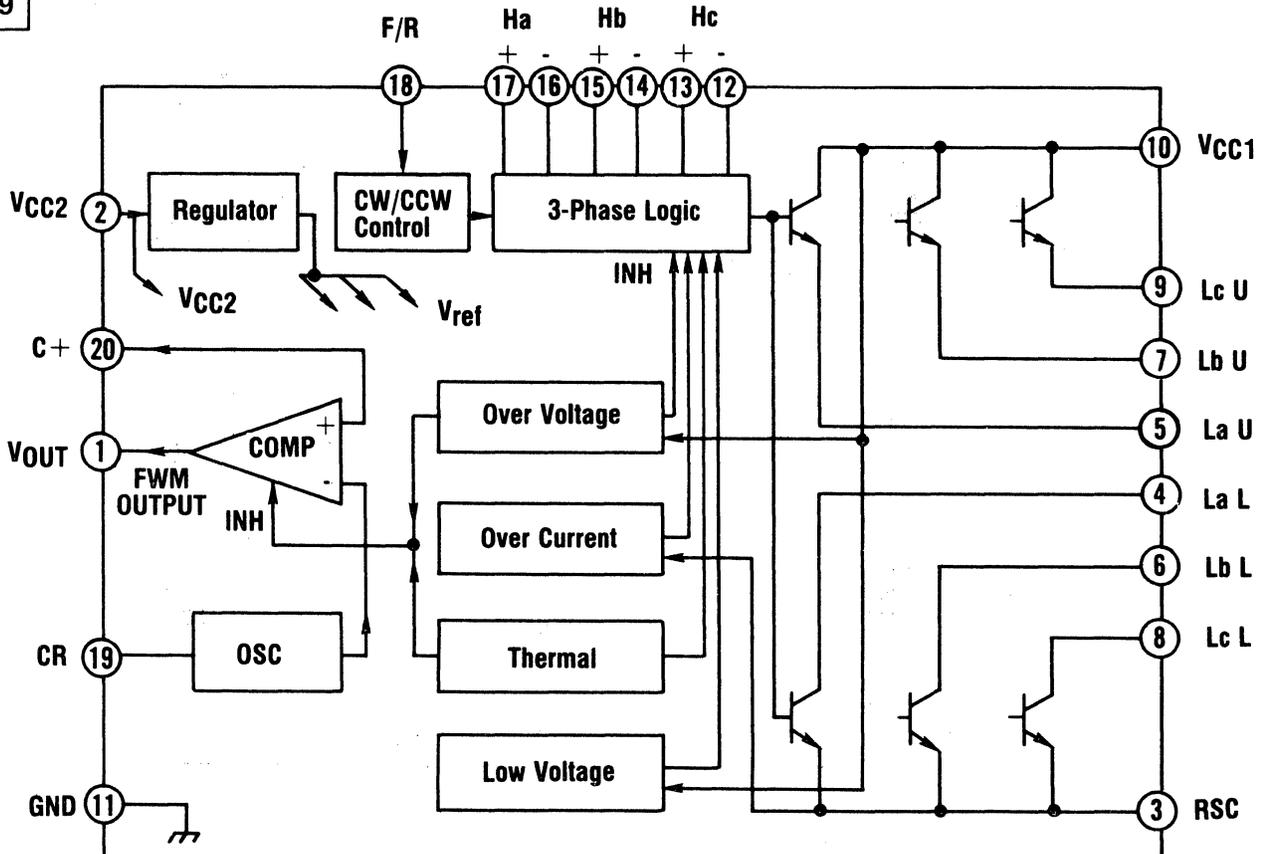
14. CIRCUIT DRAWINGS

Z8118



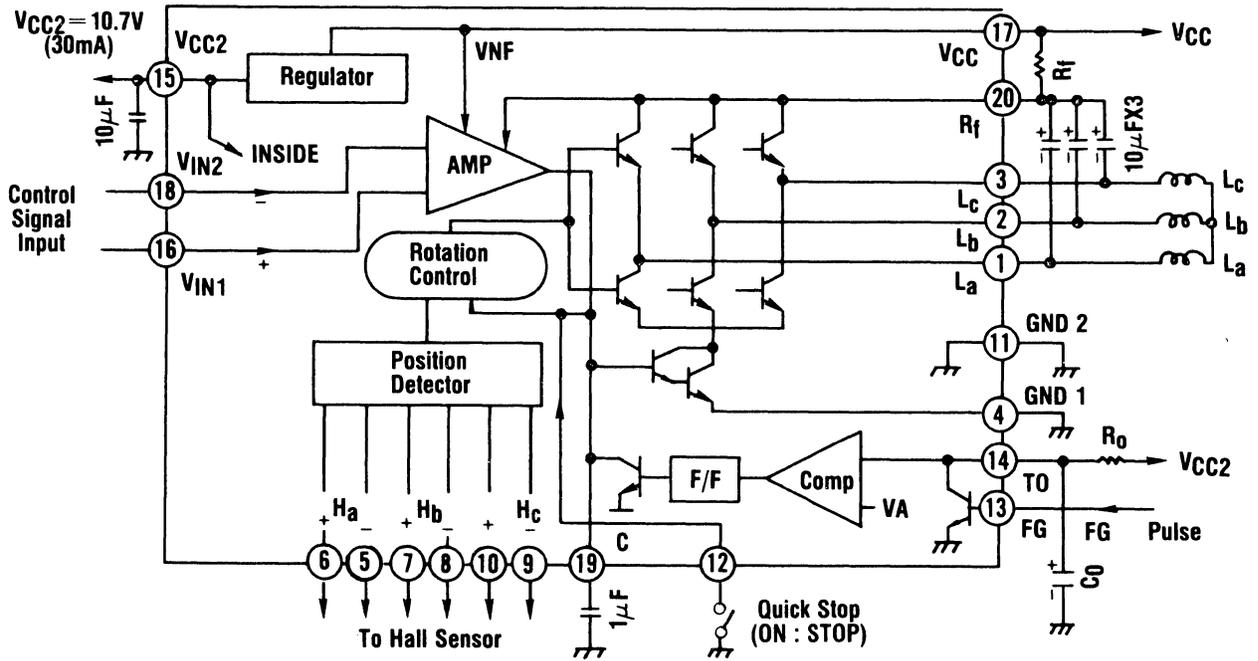
GND	1	16	VDD
X _r	2	15	CP _{OUT}
X _r	3	14	CP _{IN}
N ₁	4	13	STROBO
N ₂	5	12	LD
FG _{IN}	6	11	P/S
APC	7	10	33/45
AFC	8	9	RV

Z8119

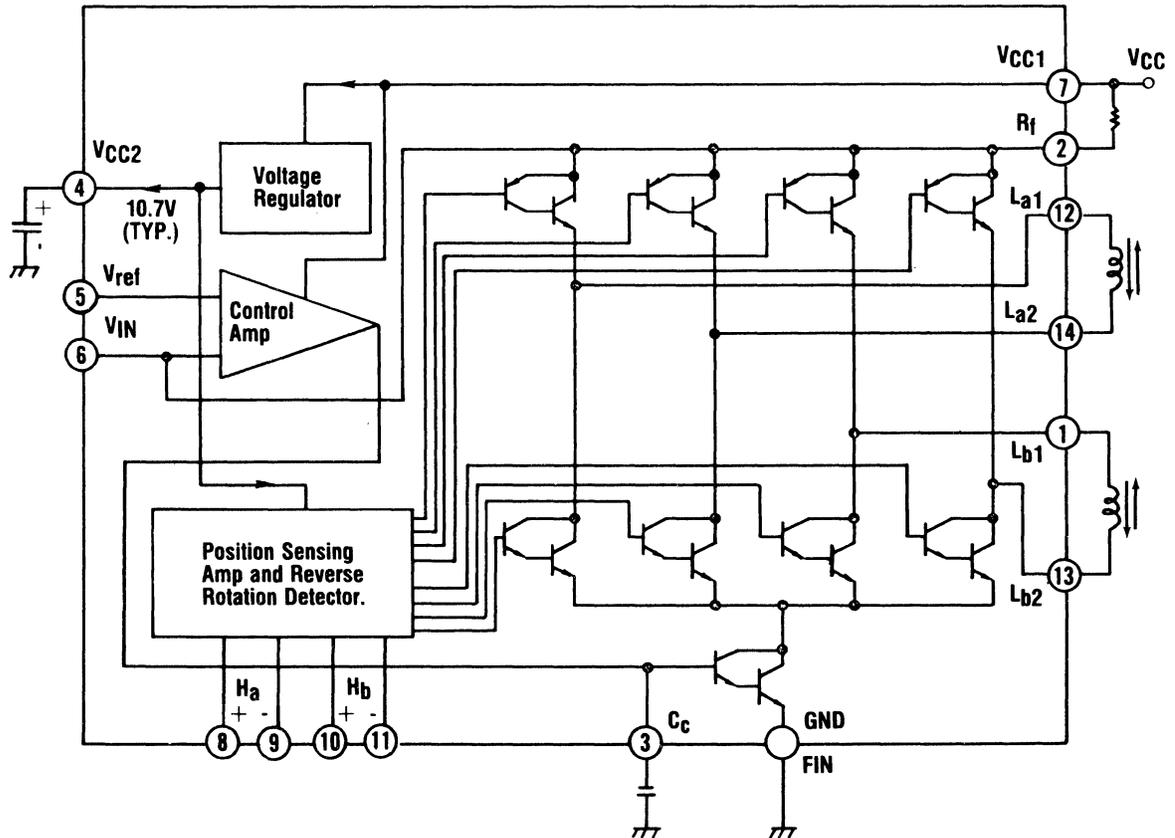


14. CIRCUIT DRAWINGS

Z8120

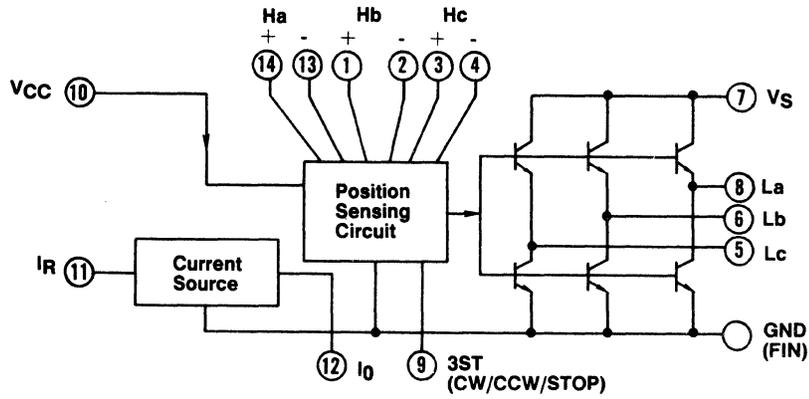


Z8121

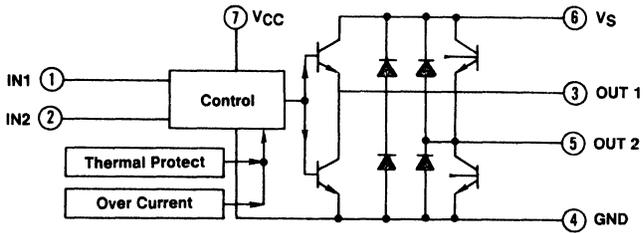


14. CIRCUIT DRAWINGS

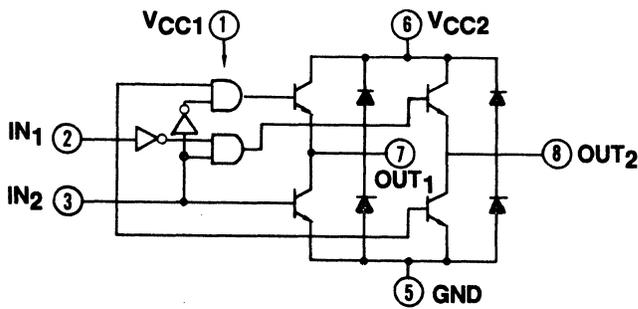
Z8122



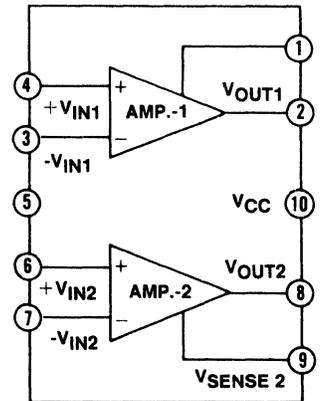
Z8123



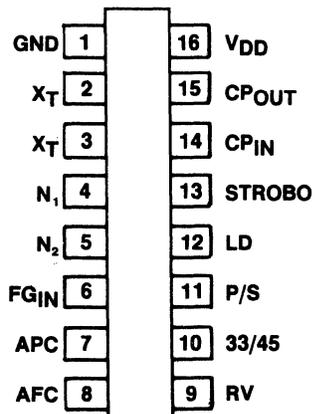
Z8124



Z8125

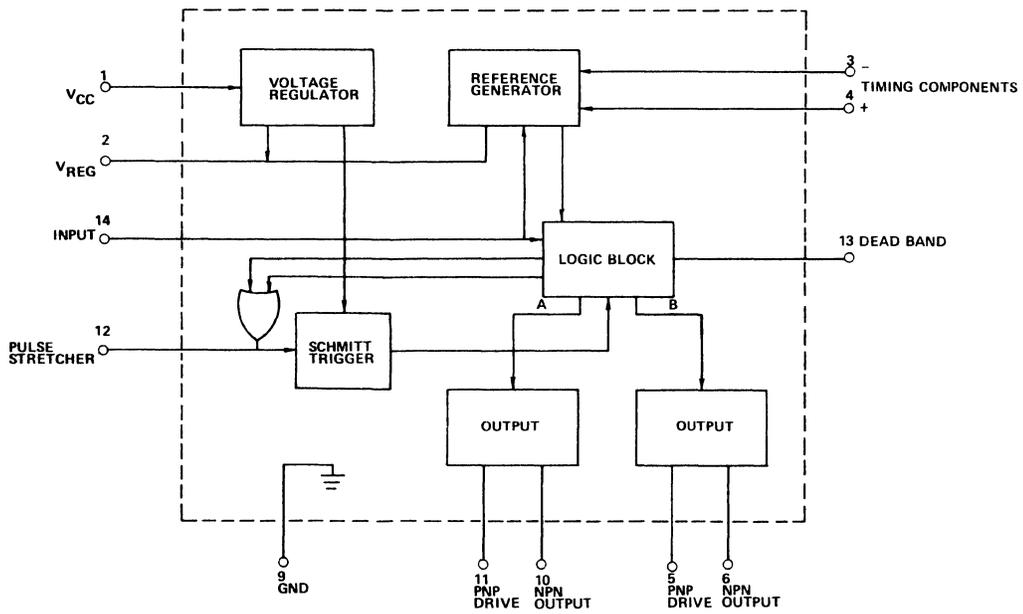


Z8126

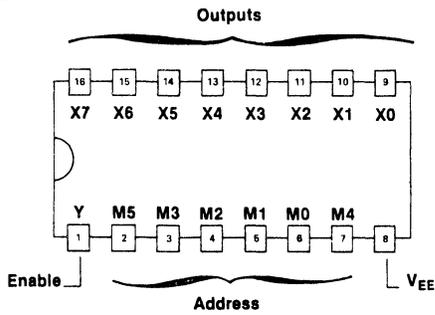


14. CIRCUIT DRAWINGS

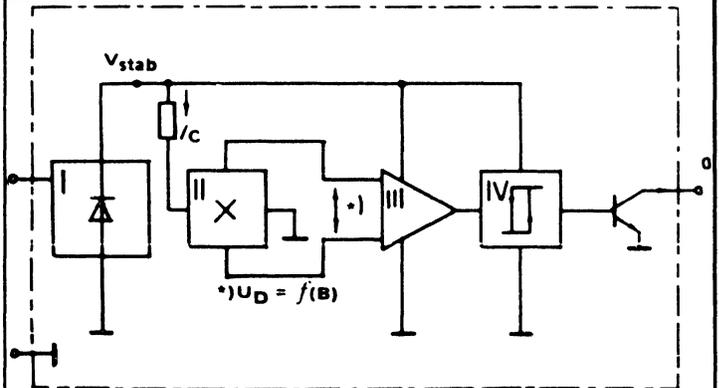
Z8301



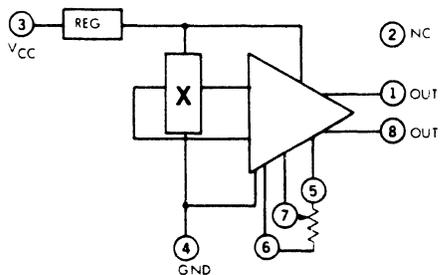
Z8703



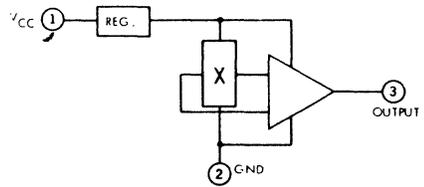
Z8802



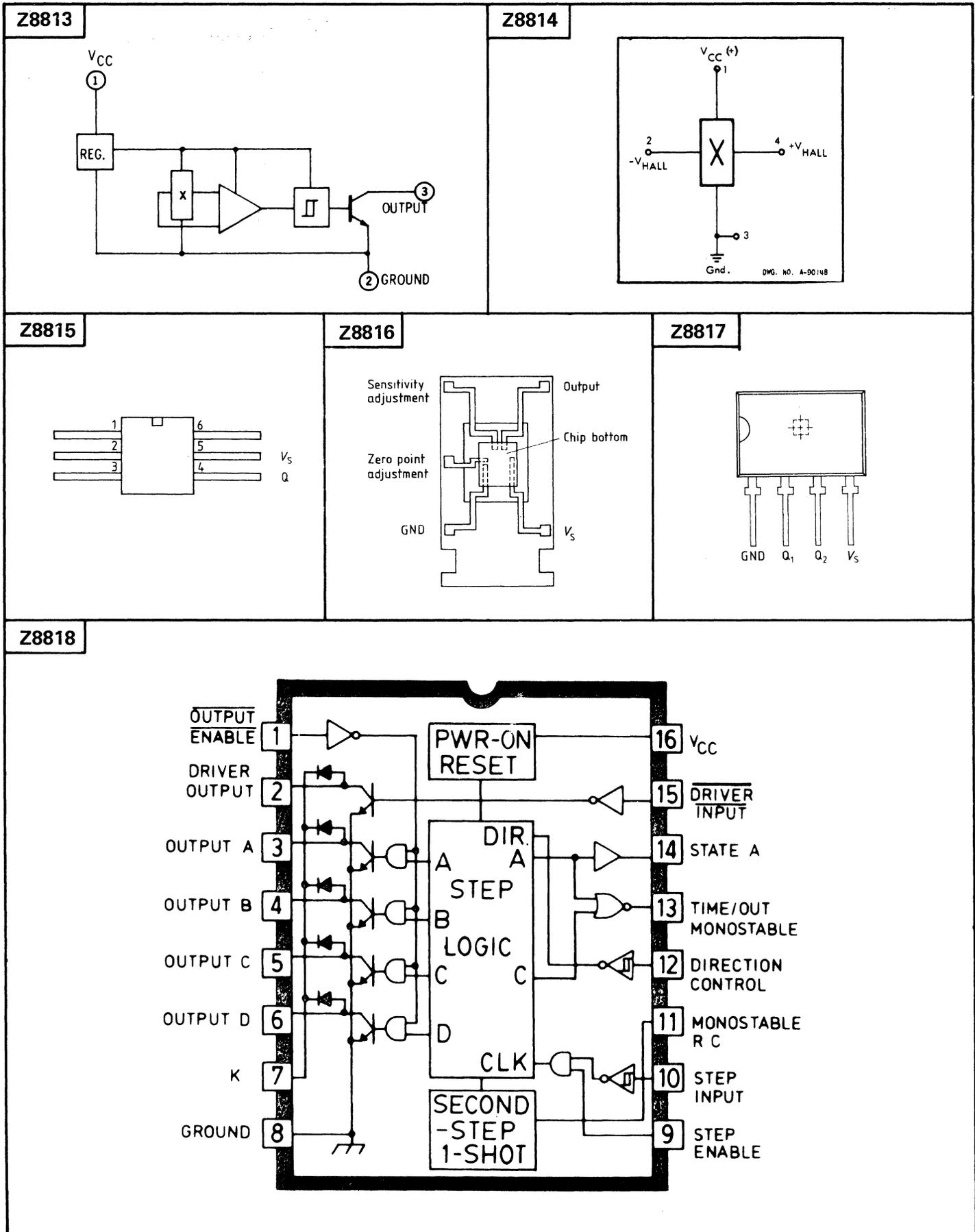
Z8811



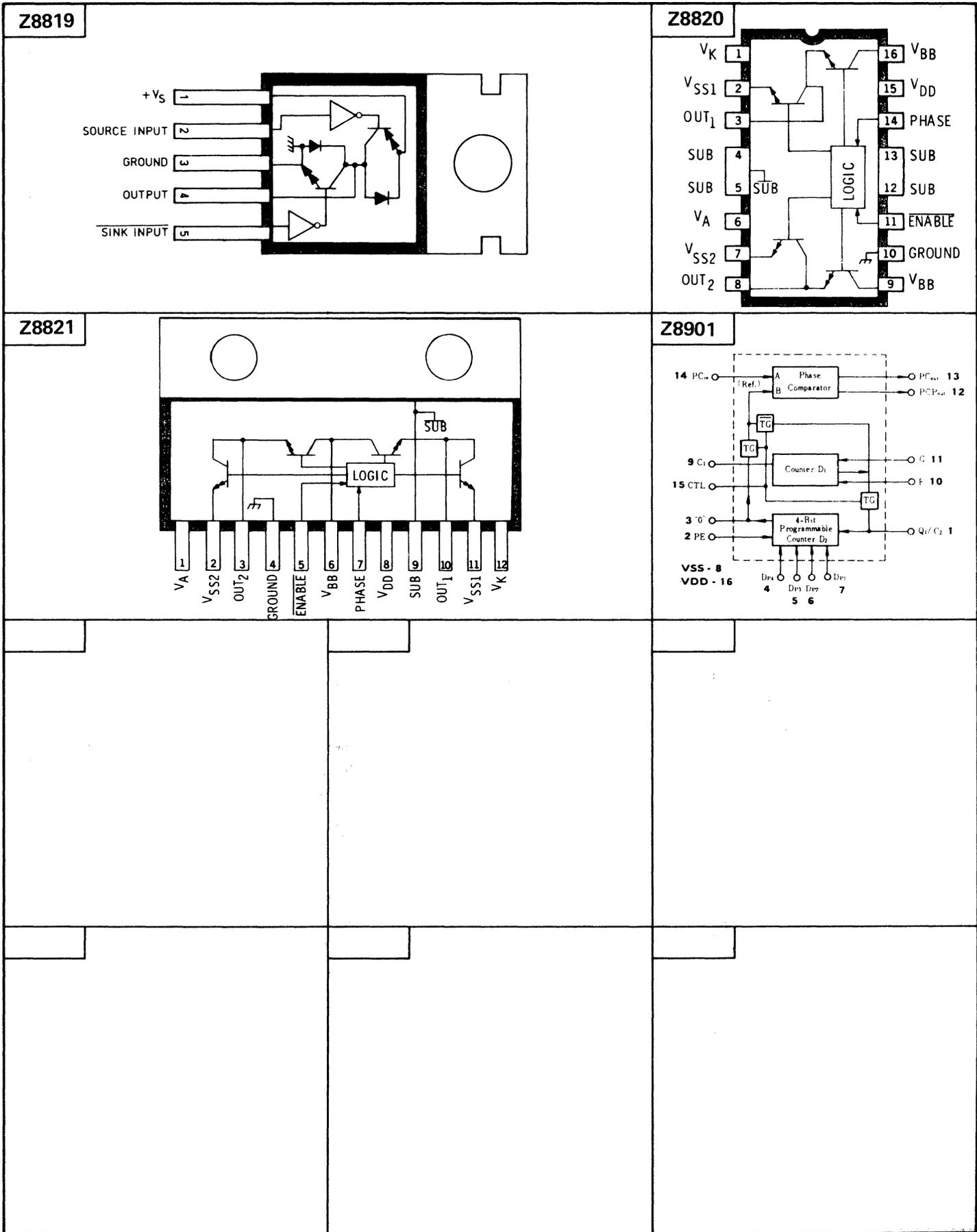
Z8812



14. CIRCUIT DRAWINGS

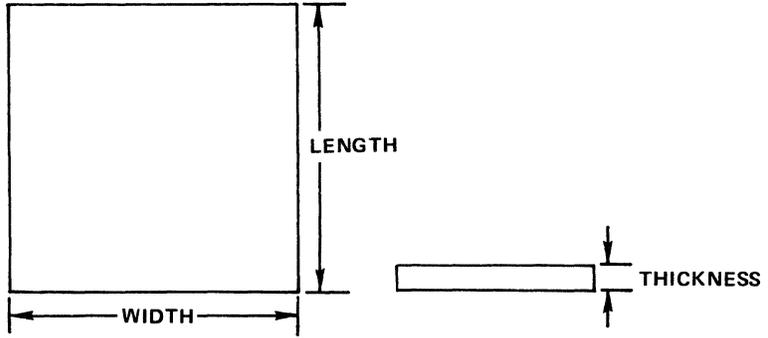


14. CIRCUIT DRAWINGS



15. OUTLINE DRAWINGS

CH

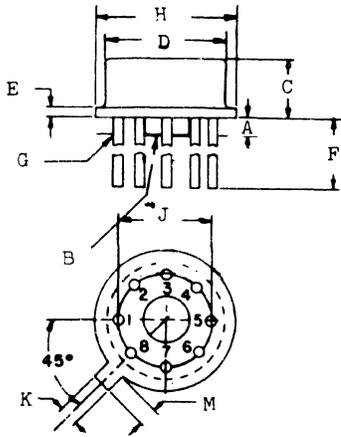


Suffix	Length	Width	Thick-ness	No Pads
CH20	2.28 max	1.90 max	.127 min	12
CH31	4.19 max	4.14 max		14
CH32	59	49		
CH34	72	58		14
CH36	2.66	2.41		16
CH39	1.85	1.37	1.27 min	6
CH41	75	64		8
CH42	79	62		8
CH43	74	63		8
CH44	1.01	.838		
CH54	1.16	1.06		7
CH55	1.93	1.16		14
CH56	1.47	1.06		8
CH57	2.15	1.77		15
CH58	1.62	1.14		7
CH59	.482	.431		.8
CH60	1.72	1.14		7
CH62	1.65	1.65		8
CH63	70 78	80 88	4 10	16
CH64	1.83	3.30		8
CH65	1.4	1.7		8
CH66	2.1	2.1		8

Suffix	Length	Width	Thick-ness	No Pads
CH16a	1.27 max	1.27 max	.127 .228	
CH16b	1.67 max	1.77 max	.127 .228	
CH16c	1.14 max	1.14 max	.127 .228	
CH16e	1.397 max	1.52 max	.127 .228	
CH16f	.838 max	.838 max	.127 .228	
CH16n	1.52 max	1.70 max		
CH16p	1.77 max	1.98 max		
CH16s	1.397 max	1.47 max		
CH16t	.889 max	1.01 max		
CH16w	1.44 max	1.49 max		
CH16x	1.57 max	1.67 max		
CH16z	1.52 max	2.76 max		
CH16aa	1.95 max	1.77 max		
CH16ab	1.47 max	1.52 max		
CH16ac	1.93 max	2.54 max		

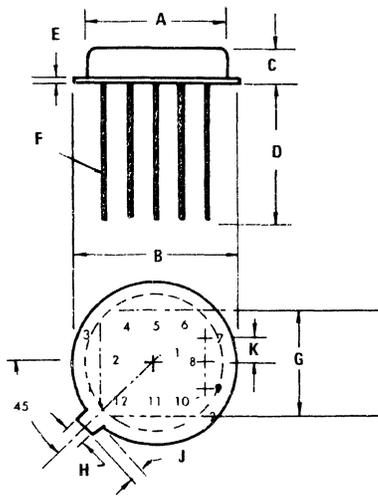
15. OUTLINE DRAWINGS

CN1



	A	B	C	D	E	F	G	H	J	K	M	REMARKS
CN1	.040	.160	.185	.335	.125	.500	.019	.370	.215	.034	.045	
CN1a	.050		.185	.335	.125	.500	.019	.370	.215	.034	.045	
CN1b	.040	.160	.182	.328		1.59	.019	.362	.200	.034	.045	
CN1c	.050		.185	.335	.040	.500	.019	.370	.200	.034	.045	
CN1d	.040		.165	.305	.040	.500	.016	.335	.200	.028	.029	
	MAX		.185	.335	MAX	MIN	.019	.370		.034	.045	
CN1e			.165	.305	.009	.500	.016	.335	.200	.028	.029	OMIT
	MAX		.185	.335	.125	MIN	.019	.370		.034	.045	PINS 2, 6
CN1f	.040		.165	.305	.040	.500	.016	.335	.230	.028	.029	
	MAX		.185	.335	MAX	MIN	.019	.370		.034	.045	
CN1g	.015		.165	.315	.020	.500	.016	.355	.190	.028	.029	
	.045		.185	.325	.030	.562	.019	.370	.210	.034	.040	
CN1h	.040		.165	.305	.040	.500	.016	.335	.200	.028	.029	OMIT
	MAX		.185	.335	MAX	MIN	.019	.370		.034	.045	PINS 2, 6
CN1j	.024		.150	.322	.024	.500		.346	.190	.027	.036	
	MAX		.155	.325		.559		.350	.210	.034		
CN1k	.010		.165	.305	.040	.500	.016	.335	.200	.028	.029	
	.040		.185	.335	MAX	MIN	.019	.370		.034	.045	
CN1m	.040	.160	.155	.305	.040	.500	.016	.335	.225	.028	.029	
	MAX	MAX	.165	.335	MAX	MIN	.019	.370	.235	.034	.045	
CN1n	NA	NA	.175	.315		.500	.019	.335	.200	.031	.037	NO
			.194	.325		MIN		.370				STANDOFF
CN1p	.010	.120	.165	.305	.010	.500	.016	.335	.200	.028	.029	
	.040	.160	.185	.335	.040	MIN	.019	.370	ESC	.034	.045	
CN1q	.040		.170	.325		.500	.017	.360	.200	.034	.040	
CN1r	.040		.170	.325		.500	.017	.360	.230	.034	.040	
						MIN						
CN1s			.160			.500	.016	.357	.200			
			.180			.560	.021	.370				
CN1t	.010	.120	.165	.305	.040	.500	.016	.335	.200	.027	.027	
	.045	.160	.185	.335	MAX	.750	.019	.370	ESC	.034	.045	
CN1u	.007	.177	.177	.334		.492	.017	.370	.199	.031	.031	
	MAX	MAX	MAX	MAX		MIN		MAX				
CN1v	.040		.165	.305	.040	.500	.016	.335	.200	.028	.029	OMIT
	MAX		.185	.335	MAX	MIN	.019	.370		.034	.045	PINS 4, 8
CN1w	.039		.185	.322		.492	.017	.354	.200			
	MAX		.185	.330		.570		.362				
CN1x	NA	NA	.165	.305	.040	.500	.016	.335	.200	.028	.029	NO
			.185	.335	MAX	MIN	.019	.370	TYP	.034	.045	STANDOFF

CN2

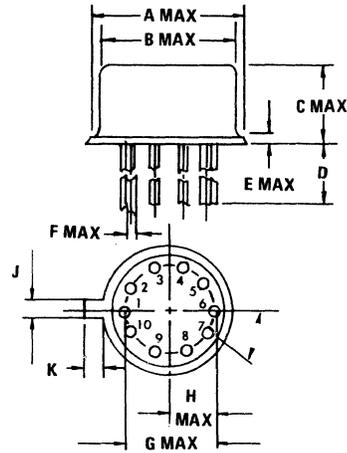


	A	B	C	D	E	F	G	H	J	K	NOTES
CN2	500	600	140	750	.023	.020	400	.031	.031	100	ALL PINS ON 100 GRID SPACING
CN2a	450	505	.150	440		.019	.300	.031	.031	100	ALL PINS ON 100 GRID SPACING
						TYP					
CN2b		500	250	500			300	.031	.031	100	ALL PINS ON 100 GRID SPACING
				MIN							
CN2c	550	558	.125	500		.017	400	.031	.031	100	ALL PINS ON 100 GRID SPACING
		602	.150	MIN							
CN2d	550	605	.250	562	.030	.015	400	.031	.031	100	ALL PINS ON 100 GRID SPACING
		MAX	MAX	MAX		.019					
CN2e	535	585	.170	500	.035	.015	.390	.031	.031	100	ALL PINS ON 100 GRID SPACING
	MAX	615	MAX	MIN		.019	.410				
CN2f	500	595	.135	450	.023	.019	400	.031	.031	100	ALL PINS ON 100 GRID SPACING
		605	.145	MIN		MAX					
CN2g	500	595	.270	450	.023	.019	400	.031	.031	100	ALL PINS ON 100 GRID SPACING
		605	MIN	MIN		MAX					
CN2h	535	585	.175	500	.026	.015	400	.020	.020	100	ALL PINS ON 100 GRID SPACING
	MAX	615	MAX	MIN	MAX	.019		.040	.040		
CN2i	550	605	.175	562	.030	.015	400	.040	.040	100	ALL PINS ON 100 GRID SPACING
		MAX	MAX	MAX	MAX	.017		MAX	MAX		
CN2k	550	605	.135	450	.023	.015	400	.040	.040		
		MAX	.145	MIN		.019		MAX	MAX		
CN2m	550	605	.250	450	.023	.015	400	.040	.040		
	MAX	MAX	MAX	MIN		.019		MAX	MAX		
CN2n	450	500	.220	220	.035	.016	.300			.075	
		MAX	MAX	MAX	MAX	.019	TYP			TYP	
CN2p	550	600	.150	750	.023	.021	400	.031	.031	100	ALL PINS ON 100 GRID SPACING
			MIN	MIN							
CN2q	550	595	.170	450	.023	.019	400	.031	.031	100	ALL PINS ON 100 GRID SPACING
		605	.180	MIN		MAX					
CN2r		500	.270	500	.020	.016	.300	.030	.030	.075	
			MIN	560		.020					
CN2s	550	600	.270	450	.023	.019	400	.031	.031	100	
			MAX	MIN							
CN2t		500	.190	500			400			100	ALL PINS ON 100 GRID SPACING
			MAX								
CN2u		600	.270	500		.016	400	.030	.030	100	ALL PINS ON 100 GRID SPACING
				560		.020	TYP				

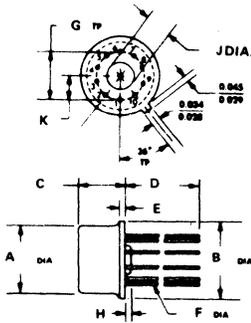
15. OUTLINE DRAWINGS

CN8

	A	B	C	D	E	F	G	H	J	K
CN8	.370	.329	.290	.500 MIN	.029		.235	.1175	.033 MAX	.040 MAX
CN8a	.370	.329	.260	.500 MIN	.029	.019	.235	.1175	.033 MAX	.040 MAX
CN8d	.370	.335	.180	.500 MIN	.125	.019	.230	.115	.034 MAX	.029 MIN
CN8e	.370	.335	.185	.300 TYP		.019	.230		.034 MAX	.034 MAX
CN8f	.370	.335	.250	.500		.018	.230	.115		
CN8g	.370	.335	.180	.750 MIN		.019	.230 TYP		.028 .034	.026 .034
CN8h	.370 MAX	.334 MAX	.183 MAX	.500 MIN		.014 MAX	.200		.033 MAX	.039 MAX
CN8j	.335 .370	.305 .335	.180 MAX	.750 MIN	.040 MAX	.016 .019	.230 BSC	.115 BSC	.028 .034	.029 .045



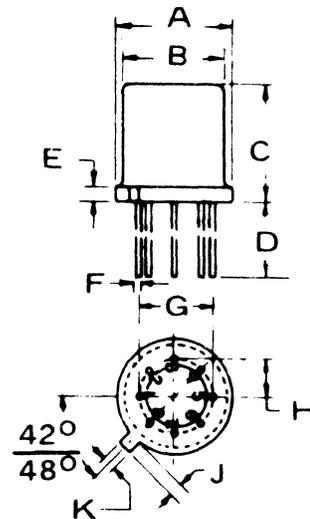
CN10



	A	B	C	D	E	F	G	H	J	K
CN10	.335	.370	.185	.500	.125	.021	.240	.010 .040	.160	.115 TYP
CN10a	.335	.370	.180	.500	.125	.019	.230	.010 .040	.160	.115 TYP
CN10b	.305 .335	.335 .370	.180 MAX	.750 TYP		.016 .019	.230			
CN10c	.335	.370	.180	.750		.019	.230	.010 .040	.160	.115 TYP
CN10d	.335	.370	.180	.500		.020	.230			
CN10e	.305 .335	.335 .370	.165 .185	.500 .750	.040 MAX	.016 .019	.230	.010 .045	.120 .160	.115
CN10f	.305 .335	.335 .370	.240 .260	.500 MIN	.040 MAX	.016 .019	.230	.040 MAX		.115
CN10g	.315 .325	.355 .370	.240 .260	.750 MIN	.020 TYP	.016 .030	.220 .240	.015 .045	.120 .160	
CN10h	.315 .325	.355 .370	.165 .185	.750 .810	.020 TYP	.016 .030	.220 .240	.015 .045	.120 .160	
CN10j	.305 .335	.335 .370	.180 MAX	.750 TYP	.040	.016 .019	.230			
CN10k	.305 .335	.335 .370	.240 .260	.500 MIN	.040 MAX	.016 .019	.230	.040 MAX	.140 .160	
CN10m	.305 .335	.335 .370	.180 MAX	.500 MIN	.040 MAX	.016 .019	.230 T.P.	NA	NA	.115 T.P.
CN10n	.305 .335	.335 .370	.165 .185	.500 .562	.020 TYP	.016 .040	.230			
CN10p	.305 .335	.335 .370	.240 .260	.500 MIN	.040 MAX	.016 .019	.220 .240	.050 MAX		
CN10q	.305 .335	.335 .370	.165 .185	.500 MIN	.040 MAX	.016 .019	.230	.010 .040	.160 MAX	.115 TYP
CN10r	.315 .335	.350 .370	.165 .185	.490 MIN	.035 MAX	.015 .019	.220 .240	.050 MAX		

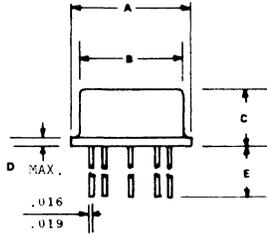
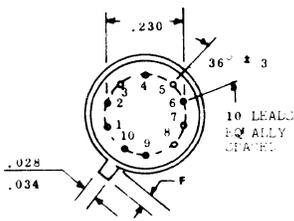
CN11

	A	B	C	D	E	F	G	H	J	K
CN11	.365	.330	.255	1.51 MIN	.035 MAX	.019	.210	.095 .105	.029 .035	.028 .034
CN11a	.370		.180	.500 MIN		.021	.200	.095 .105	.029 .035	.028 .034
CN11b	.370	.335	.182	.500 MIN	.080 MAX	.019	.210	.095 .105	.029 .035	.028 .034
CN11c	.370	.329	.165	.495 MIN	.029 MAX	.019	.235	.095 .105	.029 .035	.028 .034
CN11d	.360	.300	.280	.530 MIN	.030 MAX	.017	.200	.095 .105	.029 .035	.028 .034
CN11e	.340 .370	.318 .328	.165 .185	.500 .560	.010 .040	.016 .021	.190 .210		.028 .033	.029 .033



15. OUTLINE DRAWINGS

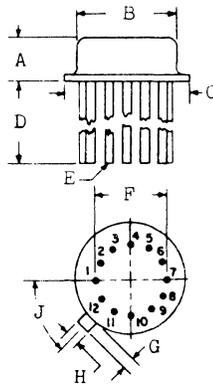
CN17



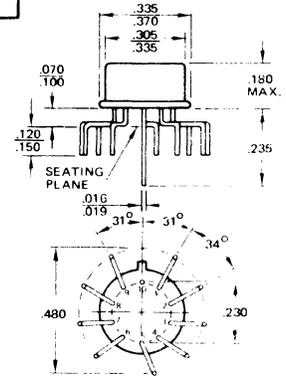
	A	B	C	D	E	F
CN17	.335	.305	.265	.040	.500	.029
	.370	.333				.045
CN17a	.290	.290	.140	.009	.500	.029
	.370	.335	.180	.125		.045
CN17b	.335	.305	.180		.750	.026
	.370	.335	MAX			.034
CN17c	.335	.305	.185	.009	.500	.029
	.370	.335		.125	MIN	.045
CN17d	.335	.305	.260	.009	.500	.029
	.370	.335		.125	MIN	.045
CN17e	.370		.260		1.90	.029
	MAX				MIN	.045
CN17f	.335	.305	.180		.335	.024
	.370	.335	MAX			.045
CN17g	.335	.319	.260	.022	.500	.030
	.370	.329	.290	.029		.040
CN17h	.335	.305	.180		.500	.024
	.370	.335	MAX			.045
CN17i	.335	.319	.155	.022	.500	.030
	.370	.329	.185	.029	.560	.040
CN17j	.335	.319	.240	.022	.500	.030
	.370	.329	.260	.029	.560	.040
CN17k	.335	.319	.180	.022	.500	.030
	.370	.329	.210	.029	.560	.040
CN17l	.335	.305	.240	.040	.500	.029
	.370	.335	.260	MAX	.560	.045

CN18

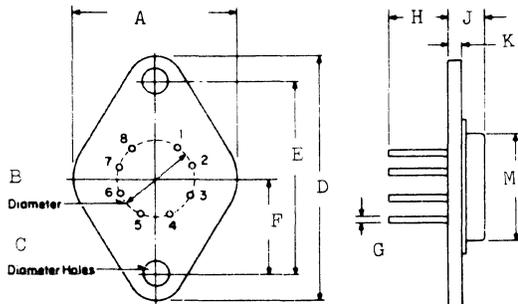
	A	B	C	D	E	F	G	H	J
CN18	.180	.305	.335	.500	.016	.215	.024	.028	30°
	MAX	.335	.370	MIN	.020	.245	.045	.034	
CN18a	.220	.305	.335	.500	.016	.215	.024	.028	
	MAX	.335	.370	MIN	.020	.245	.045	.034	
CN18b	.160		.357	.500	.016	.200			
	.180		.370	.560	.021				
CN18c	.150	.545	.597	.500	.016	.400	.026	.026	45°
	.175	.555	.603	.560	.019		.036	.036	
CN18d	.165	.305	.335	.500	.016	.230	.029	.028	30°
	MAX	.335	.370	MIN	.019	TYP	.045	.034	TYP
CN18e	.259	.334	.370	.748	.017	.200	.031	.031	30°
	MAX	MAX	MAX	MIN					



CN19

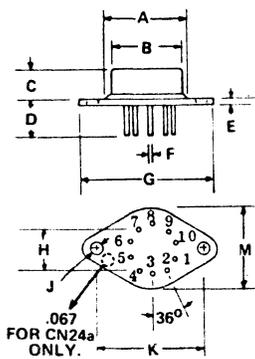


CN22



	A	B	C	D	E	F	G	H	J	K	M
CN22	1.01	.500	.156	1.54	1.18	.593	.040	.220	.240	.085	.100
								.280		.100	
CN22b	1.000	.500	.156	1.540	1.185			.400	.400	.080	.745
CN22c	1.000	.500		1.550	1.187		.042	.220	.350	.085	.780
				MAX				.280	MAX	.100	MAX
CN22d		.495	.166		1.18		.040	.220	.355	.085	.875
		.505	.176		1.19			.280	.395	.100	MAX
CN22e	1.020	.500	.161	1.560	1.177	.588	.040	.250	.400	.100	
	MAX			MAX	1.197	.598		MIN	MAX		
CN22f		.495	.165		1.18		.040	.220	.325	.085	.875
		.505	.176		1.19			.280	.352	.100	MAX
CN22g		.490	.153		1.182		.040	.480	.344	.085	.770
		.510	.159		1.192		TYP	.500	.364	.100	MAX
CN22h	.990	.500	.154		1.17	.585	.039	.220	.250	.085	.875
	1.01		.159		1.19	.600	.042	.230	.450	.100	MAX

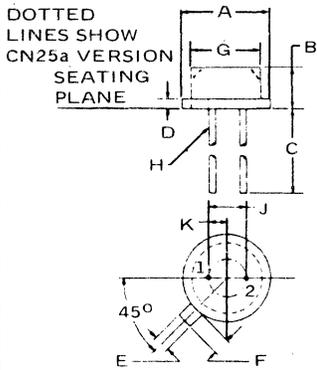
CN24



	A	B	C	D	E	F	G	H	J	K	M
CN24	.845	.780	.335	.252	.087	.039	1.57	.500	.157	1.20	1.01
	MAX	MAX									
CN24a	.811	.236	.335	.079	.039	1.55	.500		1.18	1.03	
CN24b	.850	.265	.260	.085	.025		.500	.154	1.177	.990	
	.916	.350	MIN	1.100	.035			.159	1.197	1.010	

15. OUTLINE DRAWINGS

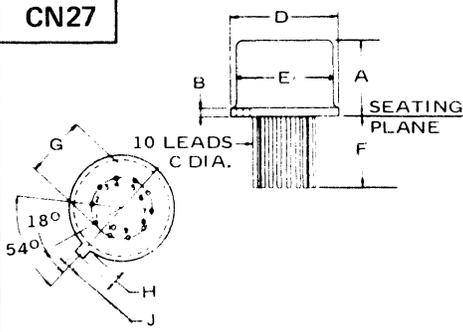
CN25



	A	B	C	D	E	F	G	H	J	K
CN25	.209 .230	.090	.500 MIN	.040 MAX	.036 .046	.028 .048	.178 .195	.012 .019	.100	.050
CN25a	.224	.208	.511				.178 .195	.012 .019	.100	.050
CN25b	.210 .230	.169 .208	.499 MIN	.029 MAX	.039	.039	.181 .192	.019	.098	
CN25c	.209 .230	.115 .150	.500				.178 .195	.016 .021	.100	.050
CN25d	.209 .219	.075 .093	.500 MIN	.030 MAX	.036 .046	.028 .048	.178 .195	.012 .019	.100	.050

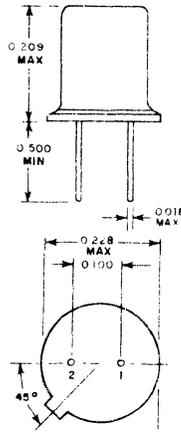
Suffix	A	B	C	D	E	F	G	H	J	K
CN25	.209 .230	.090	.500 MIN	.040 MAX	.036 .046	.028 .048	.178 .195	.012 .019	.100	.050
CN25a	.224	.208	.511				.178 .195	.012 .019	.100	.050
CN25b	.210 .230	.169 .208	.499 MIN	.029 MAX	.039	.039	.181 .192	.019	.098	
CN25c	.209 .230	.115 .150	.500				.178 .195	.016 .021	.100	.050
CN25d	.209 .219	.075 .093	.500 MIN	.030 MAX	.036 .046	.028 .048	.178 .195	.012 .019	.100	.050
CN25e	.209 .230	.125 .150	.500 MIN				.036 .046	.028 .048	.178 .195	.015 .019

CN27

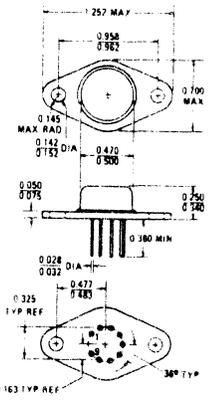


	A	B	C	D	E	F	G	H	J
CN27	.210 MAX	.009 .125	.016 MAX	.370 MAX	.315 MAX	.500 MIN	.200	.029 .045	.028 .034
CN27a	.165	.010 MAX	.016 MAX	.370 MAX	.335 MAX	.500 MIN	.200	.029 .045	.028 .034
CN27b	.165	.010 MAX	.016 MAX	.340 MAX	.318 MAX	.500 MIN	.190	.029 .045	.028 .034

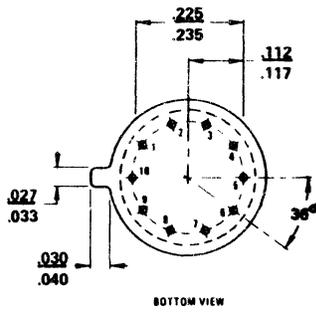
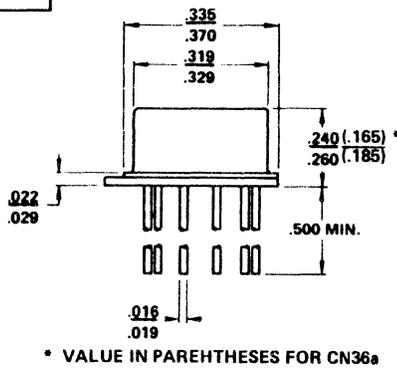
CN28



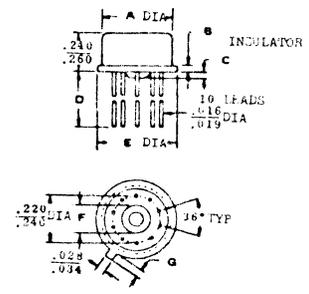
CN30



CN36

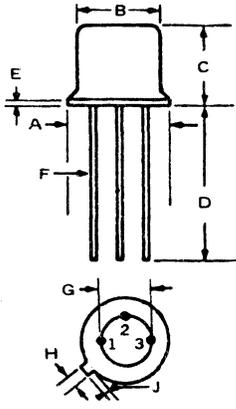


CN37



CN38

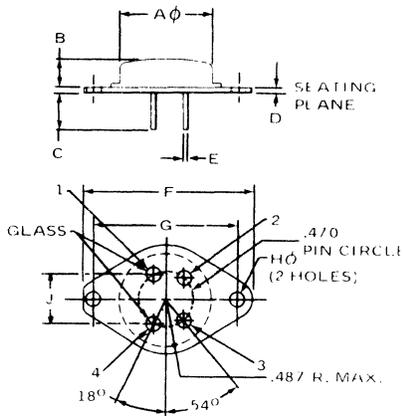
	A	B	C	D	E	F	G	H	J
CN38	.362 MAX	.327 MAX	.259 MAX	.750 MIN		.016 TYP	.200	.034 MAX	
CN38a	.335	.305	.165	.500	.060	.016	.200	.028 MAX	.029 MAX
CN38b	.370	.335	.185			.019		.034 MAX	.045
CN38c	.350 .370	.315 .335	.165 .185	.500 MIN		.016 .019	.200	.028 .034	.029 .045
CN38d	.350 .370	.315 .335	.240 .260	.500 MIN	.030 MAX	.016 .019	.200	.028 .034	.029 .040
CN38e	.335 .370	.305 .335	.165 .185	.500 MIN	.040 MAX	.016 .019	.200	.028 .034	.029 .045
CN38f	.350 .370	.315 .335	.150 .185	.500 MIN	.029 MAX	.016 .019	.200	.028 .034	.029 .040
CN38g	.335 .370	.305 .335	.165 .185	.500 MIN	.009 MAX	.016 .019	.200	.028 .034	.029 .045



	A	B	C	D	E	F	G	H
CN37	.315 MAX	.020 MAX	.015 MAX	.750 MIN	.355 MAX	.120 MAX	.030 MAX	.240 MAX
CN37a	.305 MAX	.040 MAX	.040 MAX	.500 MIN	.355 MAX	.115 MAX	.029 MAX	.240 MAX
CN37b	.315 MAX	.020 MAX	.015 MAX	.500 MIN	.355 MAX	.120 MAX	.029 MAX	.235 MAX

15. OUTLINE DRAWINGS

CN57

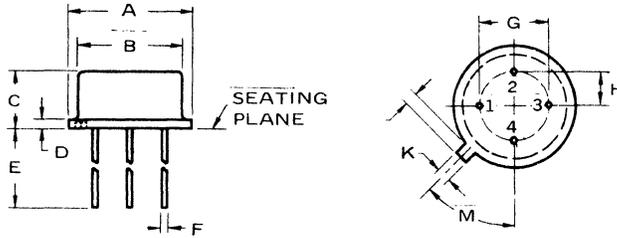
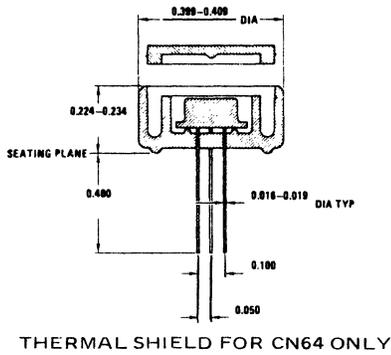


	A	B	C	D	E	F	G	H	J
CN57	.780	.155	.312	.120	.038	1.180	1.160	.153	
	.840	.275	MIN	MAX	.048	1.190	1.180	.163	
CN57a	.830	.308	.440	.059	.038	1.575	1.177	.151	.420
	MAX	.326	.460	.066	.043		1.197	.161	.440
CN57b	.805	.205	.312	.135	.038		1.17	.151	.420
	.835	.325	MIN	MAX	.048		1.19	.161	.440

- CN57b: 1 — OUTPUT VOLTAGE
 2 — AC INPUT
 3 — AC INPUT
 4 — UNREGULATED VOLTAGE
 5 — (CASE)-COMMON

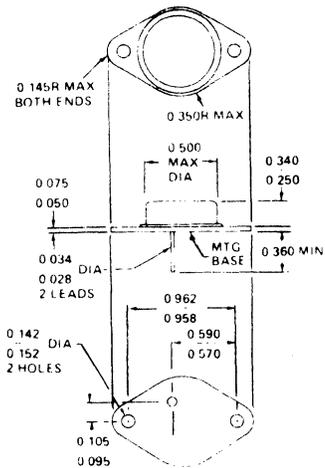
- CN57a:
 1 — COMMON
 2 — CONTROL
 3 — OUTPUT
 4 — INPUT
 5 — (CASE) - COMMON

CN64



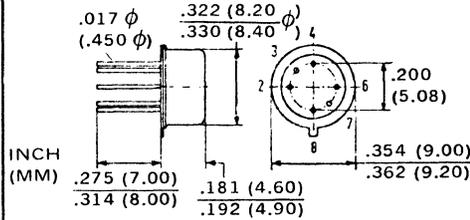
	A	B	C	D	E	F	G	H	J	K	M
CN64	.209	.178	.075	.040	.500	.012	.100	.050	.028	.036	45°
	.230	.195	.095	MAX	MIN	.019			.048	.046	
CN64a	.350	.315	.240	.089	.500	.016	.200	.100	.029	.028	45°
	.370	.335	.260	.125	MIN	.019			.040	.034	
CN64b	.350	.315	.240	.029	.500	.016	.200	.100	.029	.028	45°
	.370	.335	.260	.040	MIN	.019			.040	.034	
CN64c	.370	.334	.259	.014	.748	.017	.200		.031	.031	45°
	MAX	MAX	MAX		MIN						

CN70

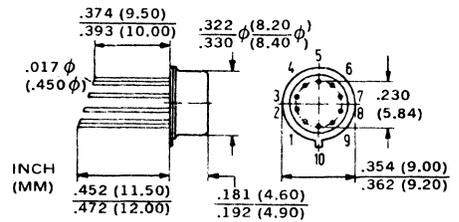


- 2 PIN CONNECTIONS
 2 -V DISCONNECT TO RESET
 CASE V

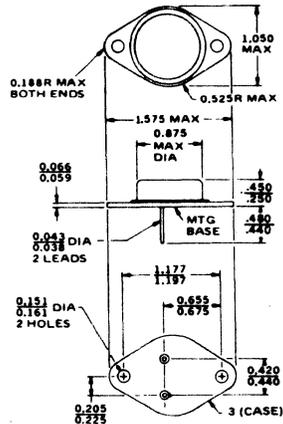
CN71



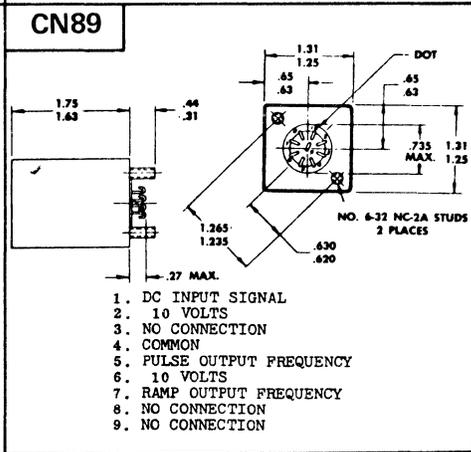
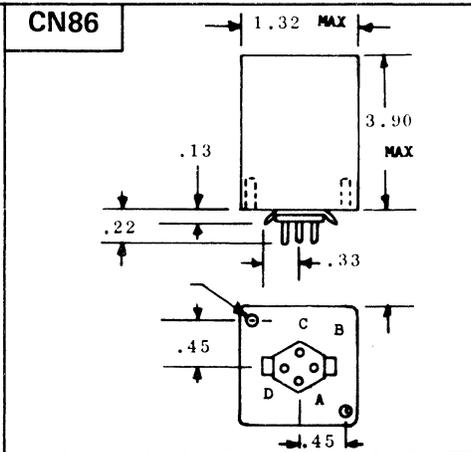
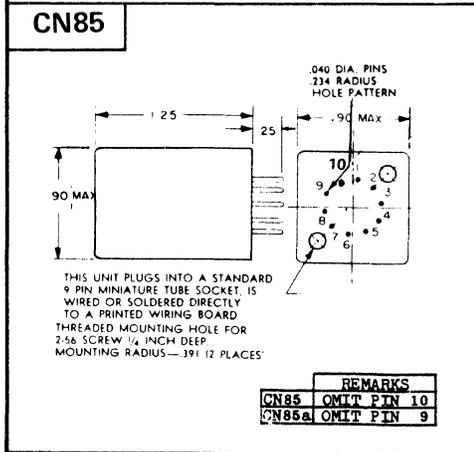
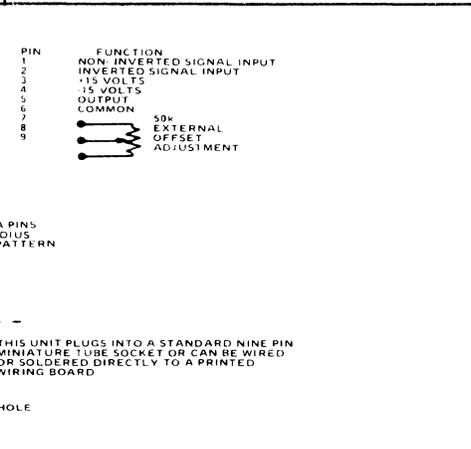
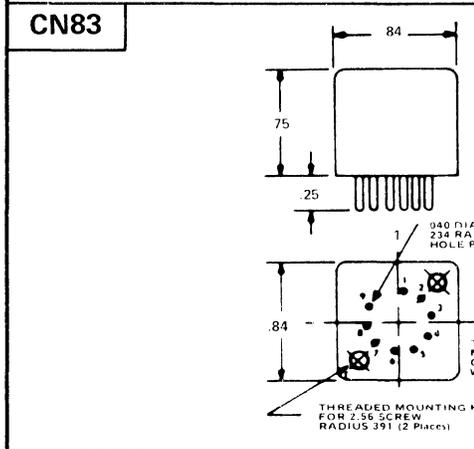
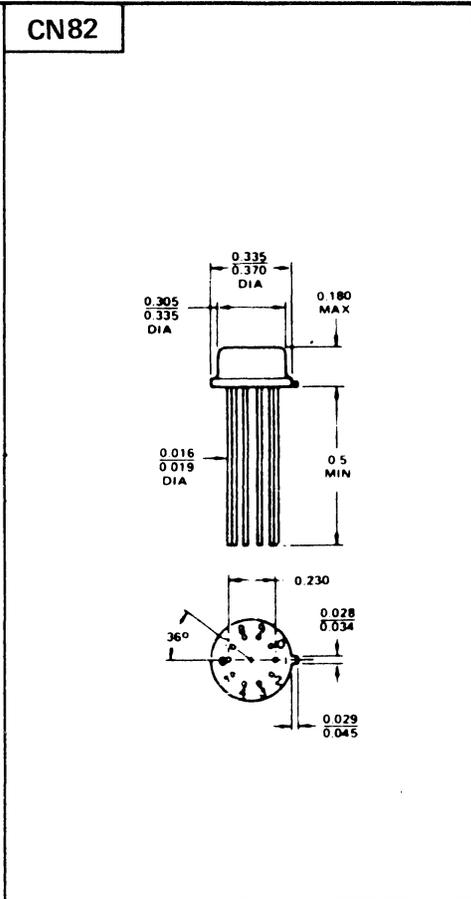
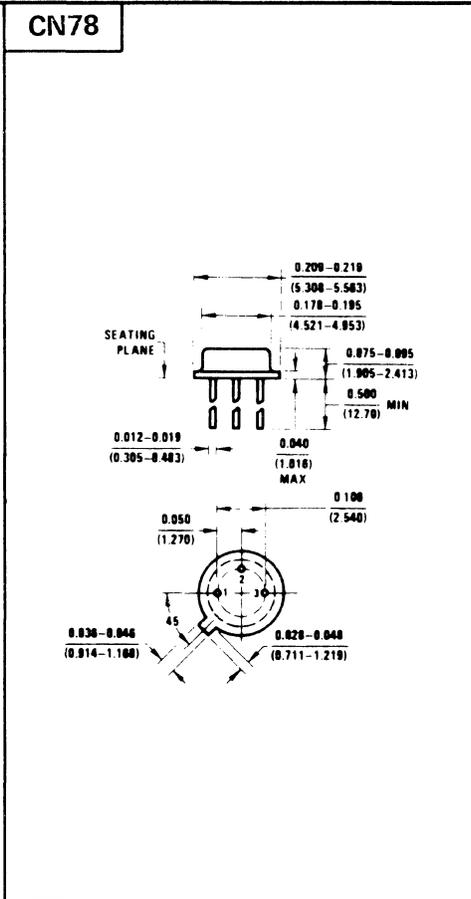
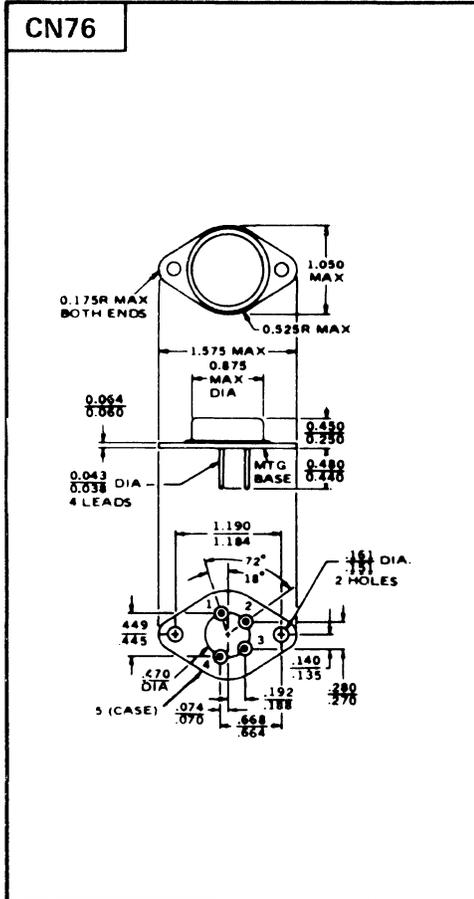
CN72



CN75

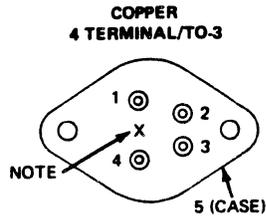
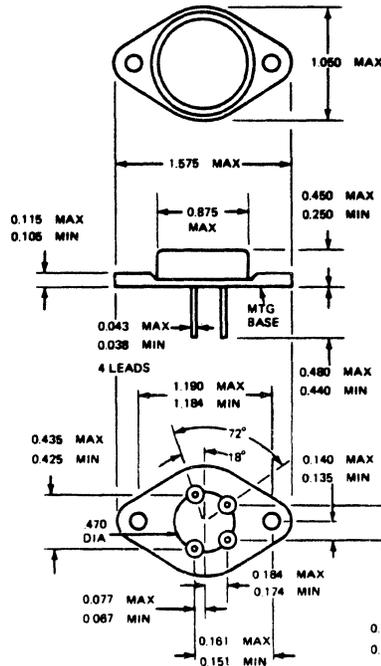


15. OUTLINE DRAWINGS



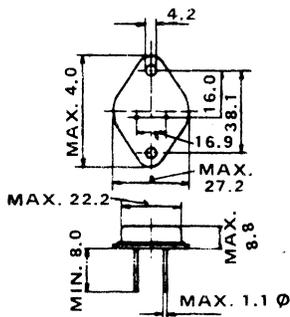
15. OUTLINE DRAWINGS

CN95



NOTE (X) = Case temperature measured at this point.

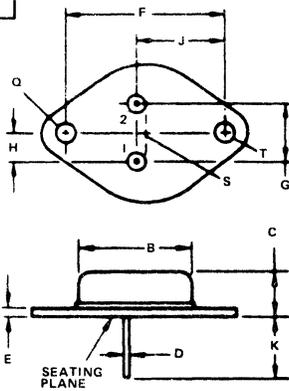
CN96



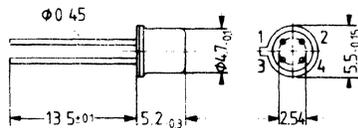
PIN FUNCTION

- 1 INPUT
- 2 COMMON (ELEC)
- 3 SENSE
- 4 OUTPUT
- 5 COMMON

CN97

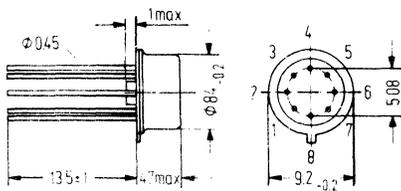


CN98



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
B	-	22.23	-	0.875
C	6.35	11.43	0.250	0.450
D	0.97	1.09	0.038	0.043
E	-	3.43	-	0.135
F	29.90	30.40	1.177	1.197
G	10.67	11.18	0.420	0.440
H	5.21	5.72	0.205	0.225
J	16.64	17.15	0.655	0.675
K	7.92	-	0.312	-
Q	3.84	4.09	0.151	0.161
S	-	13.34	-	0.525
T	-	4.78	-	0.188

CN99

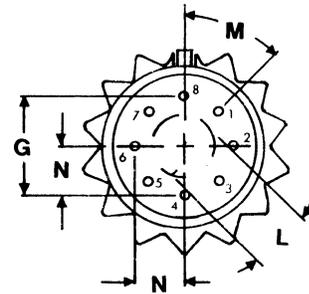
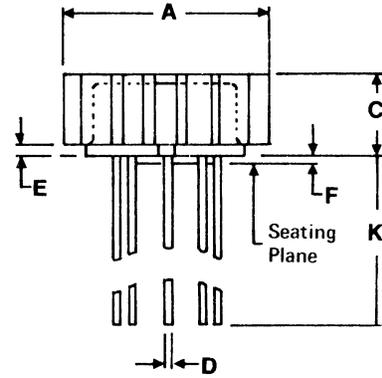


Metal case similar to 5 G 8 DIN 41873 (TO-99)
Approx. weight 1.2 g
Connection between pin 4 and case

15. OUTLINE DRAWINGS

CN100

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.489	.522	12.42	13.26
C	.243	.307	6.17	7.80
D	.016	.021	0.41	0.53
E	.010	.040	0.25	1.02
F	.010	.040	0.25	1.02
G	.200 BASIC		5.08 BASIC	
K	.500	--	12.7	--
L	.110	.160	2.79	4.06
M	45° BASIC		45° BASIC	
N	.095	.105	2.41	2.67



Weight : 2 grams

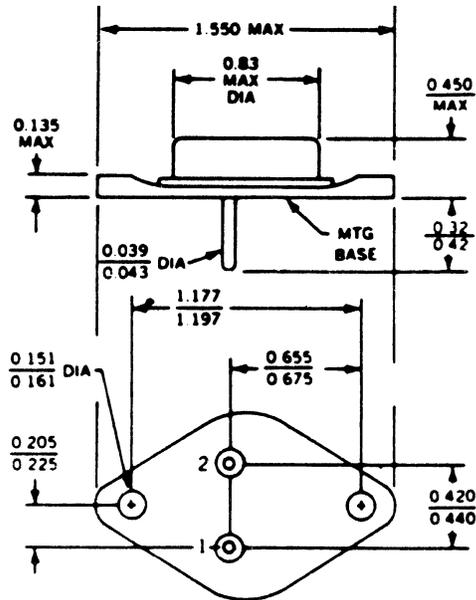
NOTE:

Leads in true position within .010" (.25mm) R at MMC at seating plane.

Pin numbers shown for reference only. Numbers may not be marked on package.

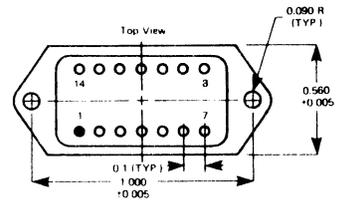
Pin material and plating composition conform to method 2003 (solderability) of MIL-STD-883 (except paragraph 3.2).

CN101

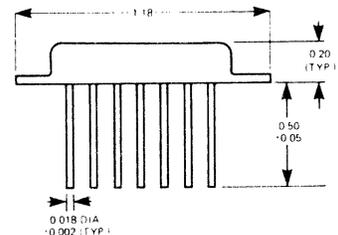


CN103

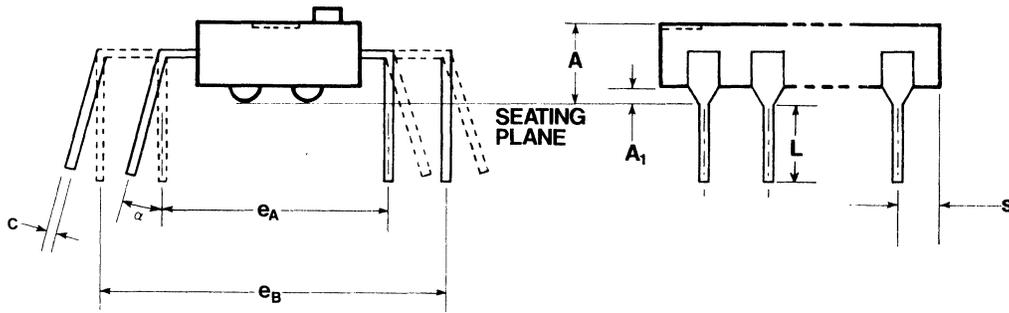
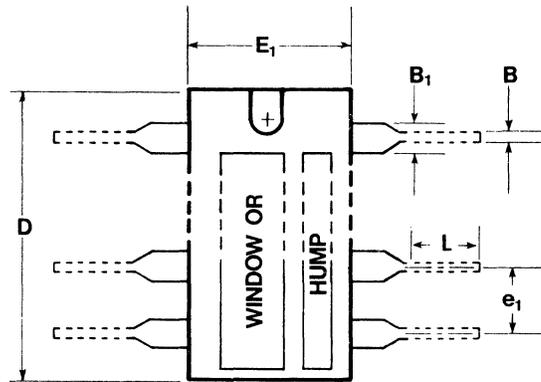
- 1 - In
- 2 + In
- 3 N.C.
- 4 N.C.
- 5 - V_{cc}
- 6 - Current Limit
- 7 N.C.
- 8 Output
- 9 + Current Limit
- 10 + V_{cc}
- 11 Compensation
- 12 Compensation
- 13 Offset Adjust
- 14 Offset Adjust



Mechanical Dimensions

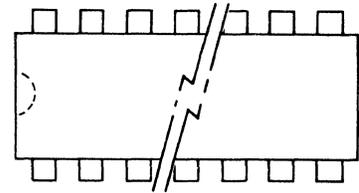
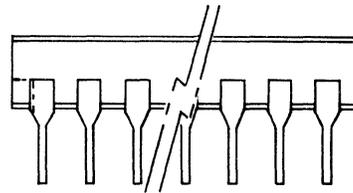
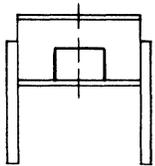


TYPICAL OUTLINE DRAWING DIMENSIONS

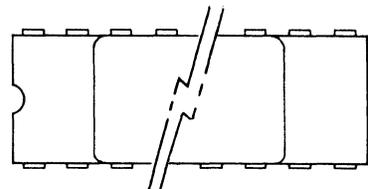
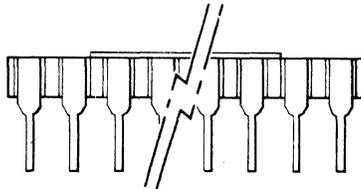
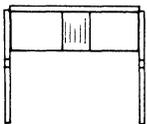


Specific Examples

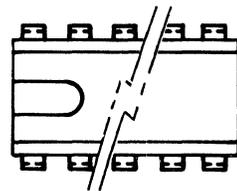
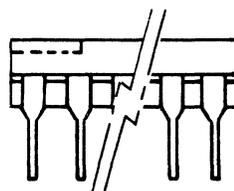
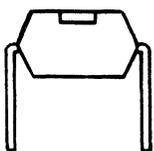
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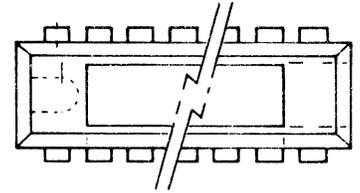
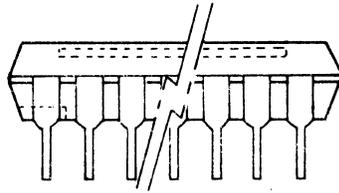
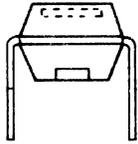
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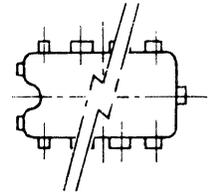
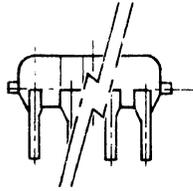
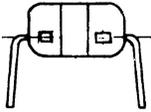
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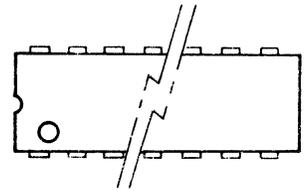
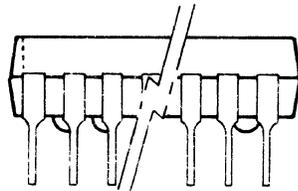
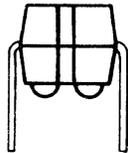
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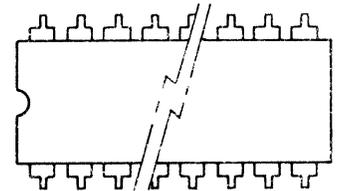
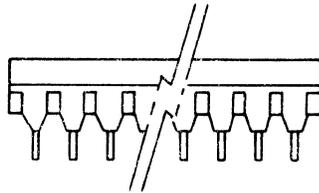
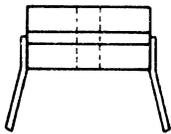
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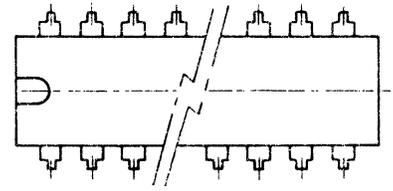
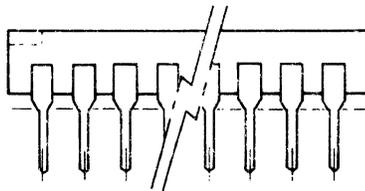
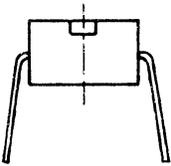
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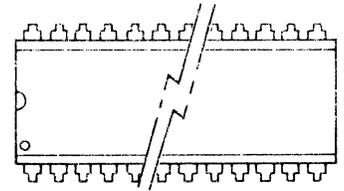
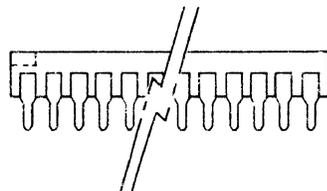
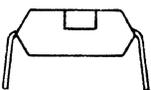
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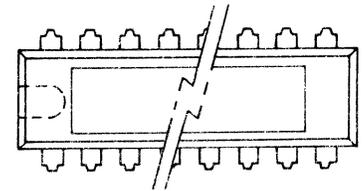
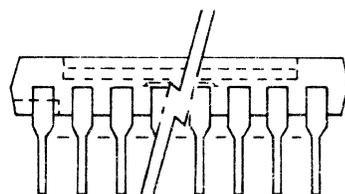
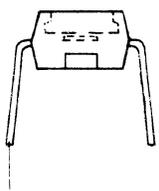
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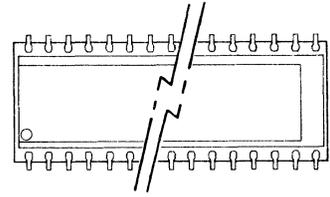
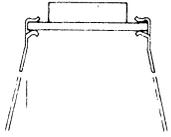
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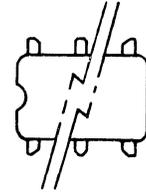
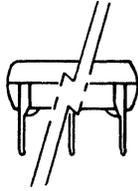
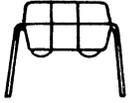
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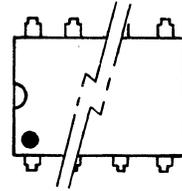
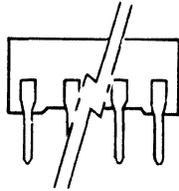
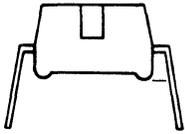
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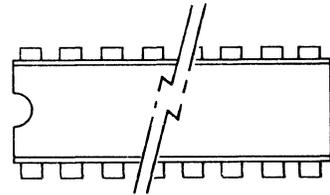
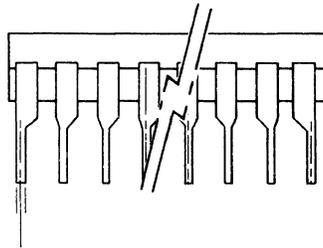
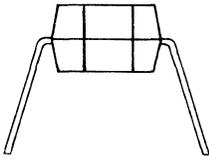
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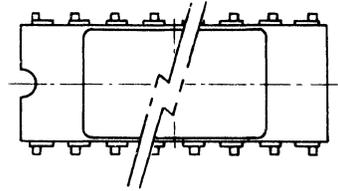
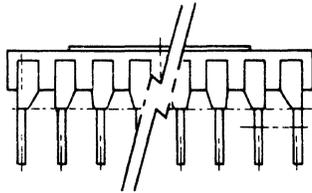
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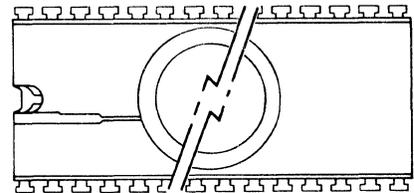
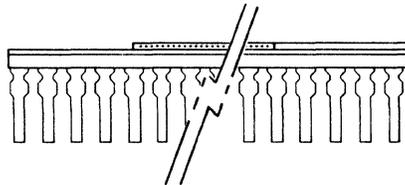
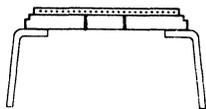
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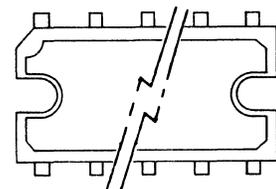
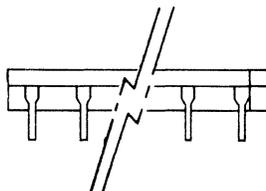
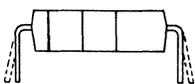
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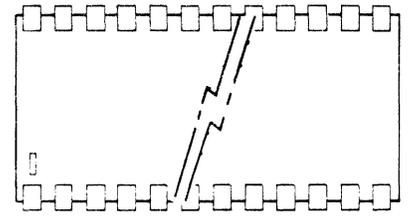
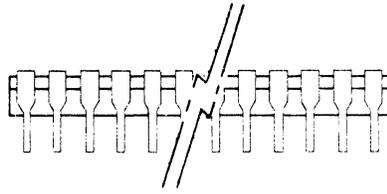
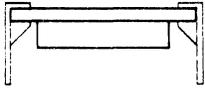
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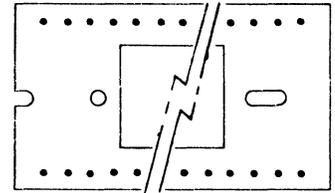
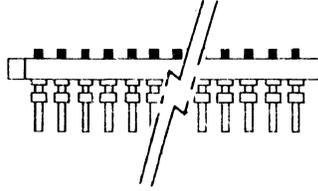
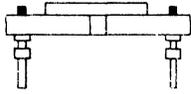
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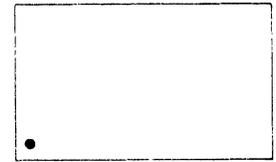
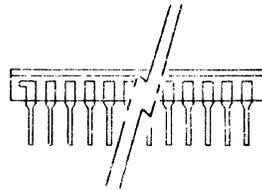
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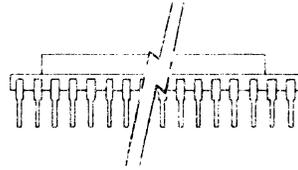
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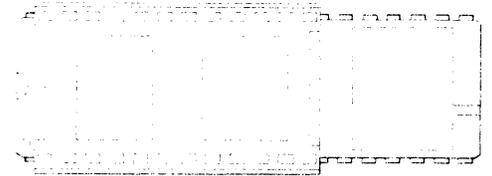
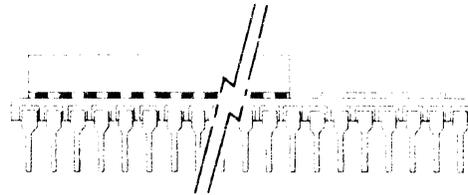
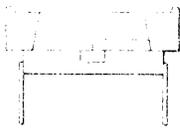
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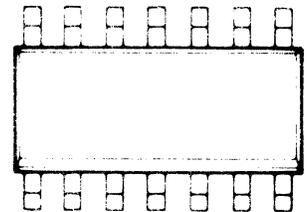
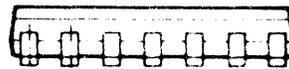
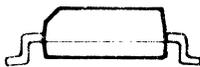
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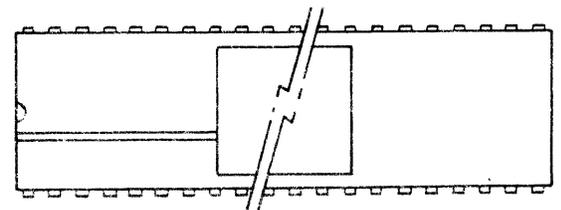
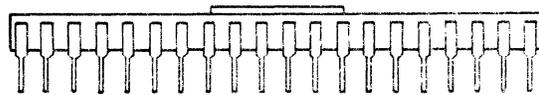
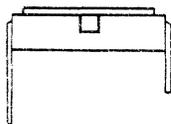
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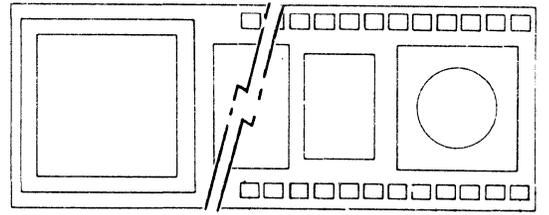
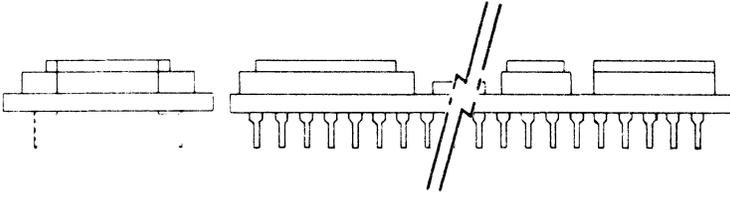
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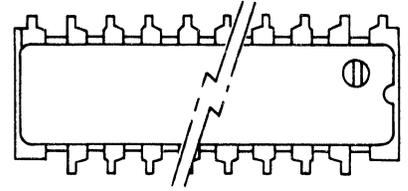
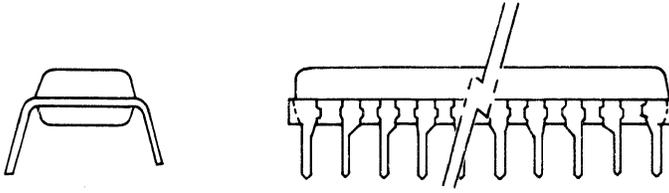
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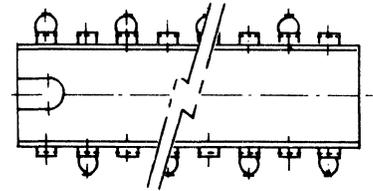
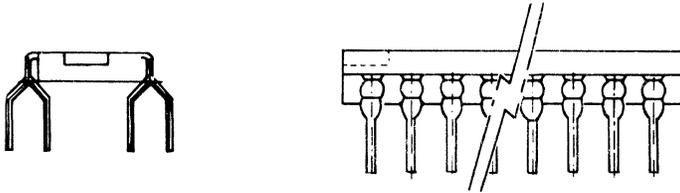
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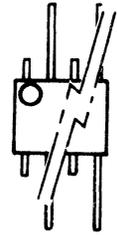
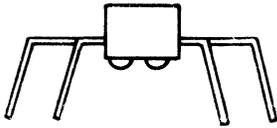
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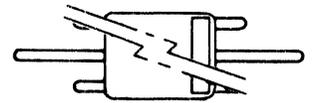
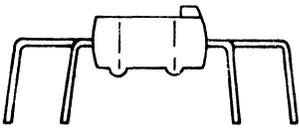
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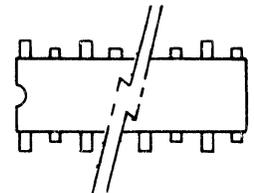
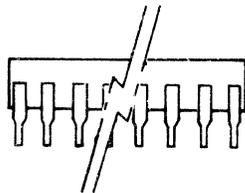
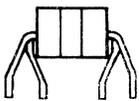
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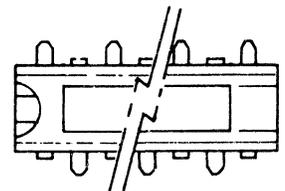
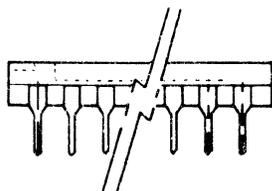
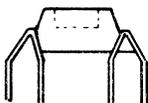
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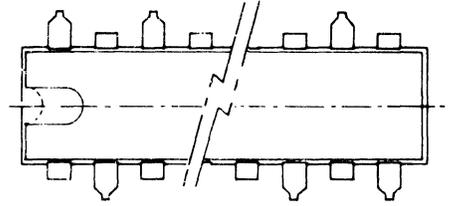
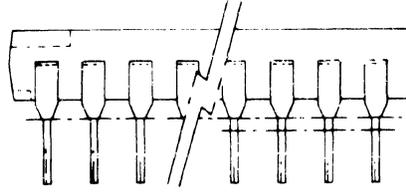
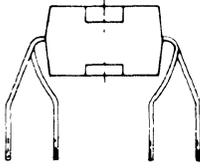
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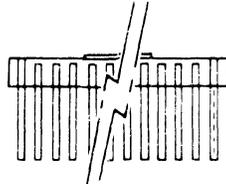
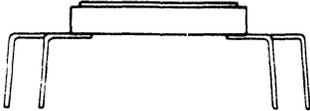
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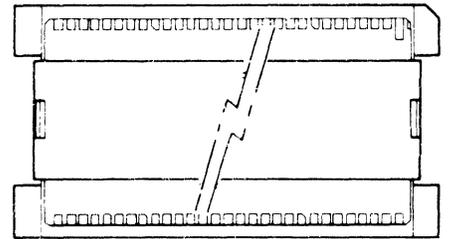
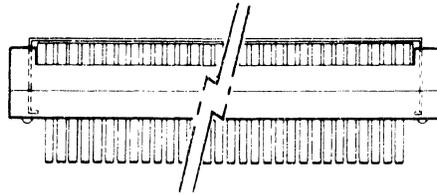
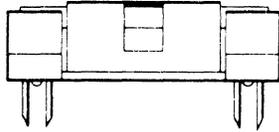
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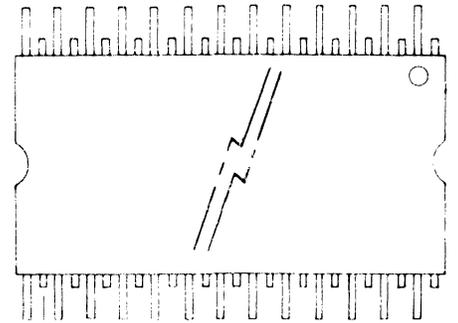
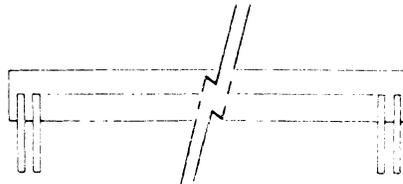
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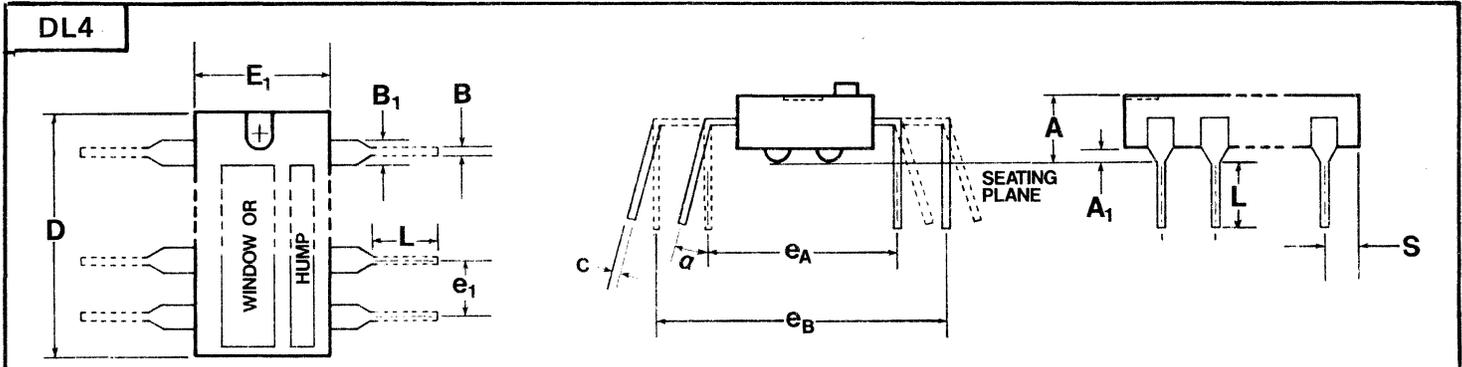
Qh



Qi



15. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL4a	X		.200 max	.019 min	.009 max .017			.224 max .248	.244 max .259	.100	.291 max .307		.122 max .161	20°		Dc
DL4b	X		.200 max	.020	.018 max .022	.060	.012	.196		.087 max .109	.291 max .307		.125		.043	Dc

DL6																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL6a	X		.200 max	.020 min	.012 max .027	.070 max	.007 min	.225 max .295	.250	.100	.300		.118	0° 15°	.050 max	Df
DL6b	X		.181 max	.019 min	.017			.322 max .334	.244 max .251	.100	.291 max .307		.122 max .141	20°		Dc
DL6c		X	4.2 max	.50 min	.35 max .55	1.65 max	.25 max .35	8.1 max 8.3	6.2 max 6.4	2.54	7.4 max 7.8		3.2 max 3.8		1.6	Dc
DL6d		X	4.2 max	0.5 min	0.45	1.5 max	0.25	7.5	6.4	2.54	7.6		3.2 min		1.2	Dc

DL8																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL8a	X		.150 max .170	.020	.018		.009 max .015	.363 max .393	.236 max .256	.100	.290 max .310		.140 max .170		.039	Dm
DL8b	X				.023 max			.400 max		.100	.290		.070			Dm
DL8c	X						.008 max .014	.360 max .390	.240 max .260	.090 max .110	.290 max .310		.100 min			Dm
DL8d	X			.020	.014 max .018	.030 max .060	.008 max .011	.370 max .390	.240 max .250	.100	.280 max .300			0° 10°	.045	Dm
DL8e	X		.155 max .175	.020 max .030	.015 max .020	.040 max .060	.008 max .012	.370 max .400	.240 max .250	.100	.290 max .310		.115 max .135	10°	.030 max .050	Dm

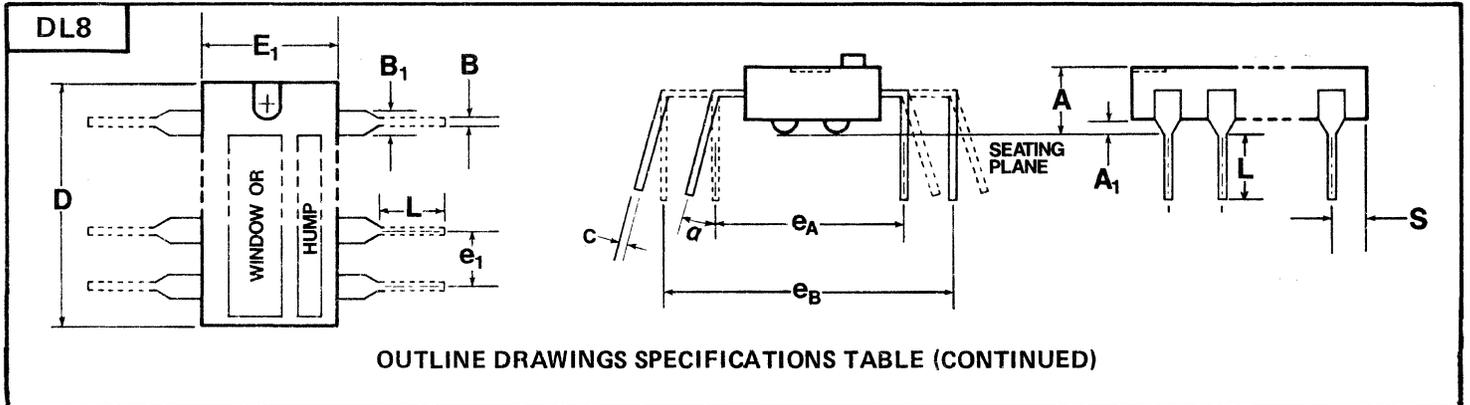
(Continued)

15. OUTLINE DRAWINGS

DL8																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL8f	X		$\frac{.155}{.177}$	.020 min	$\frac{.014}{.023}$		$\frac{.008}{.015}$	$\frac{.370}{.400}$	$\frac{.240}{.280}$	.100			$\frac{.125}{.130}$	0° 15°	.040	Dm
DL8g	X		$\frac{.148}{.152}$				$\frac{.009}{.011}$	$\frac{.370}{.390}$	$\frac{.248}{.252}$	.100 typ			.125 min	0° 15°		Dc
DL8h	X		.200 max				$\frac{.008}{.015}$	.450 max	$\frac{.240}{.280}$	.100 typ			.125 min	0° 15°		Dc
DL8i	X		.158 max				.010	.374 max	.248 max	.100 typ			.125 min	0° 15°		Dc
DL8j	X		.200 max				$\frac{.008}{.015}$	.390 max	$\frac{.220}{.310}$	.100 typ			.125 min	0° 15°		Dc
DL8k	X		$\frac{.180}{.190}$	.015 min	$\frac{.015}{.020}$	$\frac{.044}{.050}$	$\frac{.007}{.011}$	$\frac{.365}{.375}$	.250 max	$\frac{.090}{.110}$	$\frac{.290}{.310}$		$\frac{.095}{.135}$		$\frac{.025}{.045}$	Dn
DL8m	X		$\frac{.148}{.152}$	.020			$\frac{.009}{.011}$	$\frac{.370}{.390}$	$\frac{.248}{.252}$		$\frac{.300}{.350}$		.125 min			Da
DL8n	X		.200 max	.020 min	$\frac{.015}{.021}$	.070 max	$\frac{.008}{.014}$	$\frac{.390}{.410}$	$\frac{.240}{.260}$	.100	.300		.125 min	0° 15°		Dc
DL8o	X							.374 max	.248 max	.100	.314 max					Dc
DL8p	X		.200 max	.020 min	$\frac{.015}{.021}$	.070 max	$\frac{.008}{.014}$	.400 max	$\frac{.240}{.260}$	.100	.300 typ		.125 min			Dc
DL8q	X		.200 max	$\frac{.020}{.045}$	$\frac{.015}{.020}$	$\frac{.060}{.070}$	$\frac{.008}{.015}$	.400 max	$\frac{.240}{.260}$	.100 typ	$\frac{.290}{.310}$		.125 min	0° 15°		Dp
DL8r	X				$\frac{.015}{.020}$			$\frac{.393}{.416}$	$\frac{.244}{.260}$	$\frac{.040}{.110}$	$\frac{.285}{.295}$				$\frac{.020}{.030}$	Dp
DL8s	X		$\frac{.170}{.200}$	$\frac{.020}{.040}$	$\frac{.016}{.020}$	$\frac{.055}{.065}$	$\frac{.008}{.012}$	$\frac{.390}{.430}$	$\frac{.245}{.275}$	.100	$\frac{.290}{.310}$		.125 15°		$\frac{.045}{.065}$	Dp
DL8t	X		.200 max	$\frac{.015}{.060}$	$\frac{.016}{.020}$	$\frac{.045}{.065}$	$\frac{.009}{.011}$	$\frac{.376}{.384}$	$\frac{.245}{.271}$	$\frac{.090}{.110}$	$\frac{.290}{.320}$		.125 15°	0° 15°		Dp
DL8u	X		$\frac{.155}{.200}$	$\frac{.020}{.050}$	$\frac{.014}{.020}$	$\frac{.050}{.065}$	$\frac{.008}{.012}$	$\frac{.376}{.396}$	$\frac{.240}{.260}$	.100 typ	.300 typ		.100 15°	0° 15°		Dp
DL8v	X		.200 max	.020 min	$\frac{.015}{.023}$	.070 max	$\frac{.008}{.014}$	$\frac{.355}{.400}$	$\frac{.245}{.280}$	.100	$\frac{.290}{.310}$		.130 min		$\frac{.015}{.065}$	Dp
DL8w	X		.200 max	.020 min	$\frac{.023}{.065}$	.062 max	.014 max	.400 max	.259 max	.100	.324 max		.118 min	0° 15°	.050	Dp
DL8x	X			.020 min	$\frac{.011}{.017}$		$\frac{.009}{.015}$			.100 typ	$\frac{.300}{.320}$		.125 min		$\frac{.030}{.060}$	Dp
DL8y	X			.020 min	.018 typ		.010	.380	.250	.100 typ	.300		.120 min		.040 typ	Dp
DL8z	X				.018	.060	.010	.380	.250	.100	.300		$\frac{.125}{.130}$	0° 15°	.040	Dp
DL8aa	X		.200 max	$\frac{.015}{.060}$	$\frac{.014}{.023}$	$\frac{.045}{.065}$	$\frac{.008}{.015}$	$\frac{.375}{.390}$	$\frac{.245}{.271}$	.100 typ	$\frac{.290}{.320}$		$\frac{.125}{.200}$	0° 15°		Dp
DL8ab	X		.200 max	.025	$\frac{.018}{.022}$		$\frac{.009}{.011}$	$\frac{.380}{.400}$	$\frac{.240}{.260}$	.100 typ	$\frac{.290}{.310}$		.125 min			Dp
DL8ac		X	$\frac{3.94}{4.45}$	$\frac{.51}{.76}$	$\frac{.38}{.51}$	$\frac{1.02}{1.52}$	$\frac{.20}{.30}$	$\frac{9.40}{10.16}$	$\frac{6.10}{6.60}$	2.54	$\frac{7.37}{7.87}$		$\frac{2.92}{3.43}$	10° max	$\frac{.76}{1.27}$	Dm
DL8ad	X		$\frac{.155}{.200}$	$\frac{.020}{.060}$	$\frac{.014}{.020}$	$\frac{.035}{.065}$	$\frac{.008}{.012}$	$\frac{.370}{.400}$	$\frac{.240}{.260}$	.100 typ	.300 typ		$\frac{.125}{.150}$	0° 15°	$\frac{.015}{.060}$	Dh
DL8ae	X		.200	.020				.400	.270	.100	.300 nom		.180 nom		.050	Dh

(Continued)

15. OUTLINE DRAWINGS



Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL8af	X		.190 max		.016 .020	.055 .065	.009 .011	.363 .393	.236 .256	.090 .110	.290 .310		.125 min		.039 nom	Dp
DL8ag	X		.190 max		.016 .020	.055 .065	.009 .011	.363 .393	.236 .256	.090 .110	.290 .310		.100 .150		.039 nom	Dp
DL8ah	X			.020	.245 .255			.400 max	.245 .255	.100	.300 .320		.125 min		.030 .060	Dh
DL8ai	X		.165 max	.017 .029			.009 .015	.393 max		.100	.324 max		.114 .133		.045 max	Dh
DL8aj	X		.165	.019 min	.244 .255		.010	.399 max	.244 .255	.099			.125 min		.049 max	Dh
DL8ak	X		.160	.030	.250			.370 .390	.250	.100	.300		.120 min			Dh
DL8am	X		.196 max	.019 min	.015 .023		.007 .015	.413 min	.255 max	.090 .109	.299 .393		.118 min			Dc
DL8an	X		.197	.020	.020	.060	.010	.400 max	.280 max	.100			.118			Dc
DL8ao		X	3.43 3.93	.051 .076	.38 .53	1.12 1.32	.25 .38	9.27 9.53	6.22 6.40	1.12 1.32	7.37 7.87		3.06 3.43		.64 1.14	Dh
DL8ap	X		.197 max	.020 min	.016 .023	.039 .051	.009 .014	.400 max		.100 typ	.299 typ		.118 min		.049 max	Dc
DL8aq	X		.200 max	.020 .070	.016 .020	.045 .055	.008 .012	.390 max	.280 max	.090 .110	.290 .320		.125 min		.020 max	Dp
DL8ar ¹		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	9.91 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08	0° 15°	1.14 max	Dh
DL8as		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	9.91 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08	0° 15°	1.14 max	Dr
DL8at		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	9.91 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08		1.14 max	Da
DL8au		X	5.08 max	.50 min	.50		.25	10.5 max	6.4	2.54	7.62		2.7 min			Dh
DL8av		X	5.0	.50	.50	1.5	.25	10.0 max	7.11 max	2.54	7.62		3.0	0° 15°		Dp
DL8aw		X	3.83 5.47	.51 1.02	.38 .58	.76 1.78	.20 .36	9.906 10.29	7.67 max	2.54	7.37 8.13		.51 1.02	0° 15°	.635 1.14	Dh
DL8ax		X	4.06	.76	.38 .54		.20 .30	9.14 10.16	6.35	2.54 typ	7.62		3.18	0° 15°		Dc
DL8ay		X	4.2 max	.50 min	.38 .54			10.16 max	6.22 6.48	2.54			3.2 min		1.27 max	Dc
DL8az		X	5.08 max	2.29 2.79	.41 .51	.76 1.78	.20 .38	9.40 10.16	5.59 7.11	2.29 2.79	7.37 7.87		2.45 min	0° 15°		Dh

¹May also be in pkgs DL8as or DL8at. Consult Mfr.

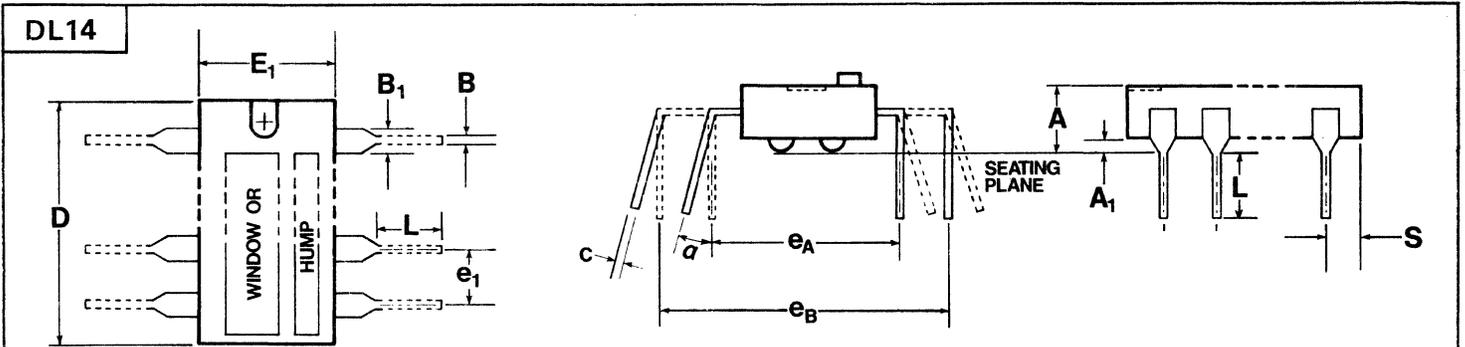
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15. OUTLINE DRAWINGS

DL8		OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)														
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL8ba	X		.200 max	.015 .060	.014 .023	.030 .070	.008 .015	.405 max	.220 .310	.100 typ	.290 .320		.150 min	0° 15°	.055 max	Dh
DL8bb	X		.200 max	.015 .060	.014 .023	.030 .070	.008 .015	.390 max	.220 .310	.100 typ	.290 .320		.150 min	0° 15°	.045 max	Dc
DL8bc		X	4.8 max	.50 min	.48 .58	1.54	.35 max	9.6	6.4	2.34 2.74	7.4 8.4		3.3		1.05 max	Dc
DL8bd		X	5.08 max	.81 min	.40 .60	1.22 typ	.35 max	10.0 max	6.5 max	2.29 2.79	7.37 7.87		2.8 min	0° 15°		Dp
DL8be		X	3.94		.457 typ			9.53	6.35	2.54 typ	7.62 typ		3.17			Dh
DL8bf		X	5.08 max	.51 min	.38 .508		.20 .30	10	6.35		8.45 max		3.0	0° 15°	1.27 max	Dc
DL8bg		X	3.18 max	.38 min	.38 .58		.20 .38	9.65 10.41	5.99 6.50	2.54	8.26 9.53		3.05 min			Dh
DL8bh	X		.135 .185	.015 .045	.016 .024	.058 .062	.009 .016	.38	.245 .255	.099 .101	.30		0.12	30°	.04	Dc
DL8bi	X		.115 .125	.02 .03	.015 .021	.03 .07	.10 .15	.36 .40	.240 .260	.09 .11	.290 .310		.120 .135	0° 15°		Dh
DL8bj		X	4.5 max	.51 min	.41 .58	1.0 1.5	.25 .36	9.2 9.7	6.1 6.6	2.2 2.7	9.5 nom		3.1 3.8		.64 1.2	Dp
DL8bk		X	5.0 max	.51 1.0	.40 .50	1.1 1.6	.22 .30	9.5 9.9	6.1 6.6	2.2 2.7	9.5 nom		3.1 3.8	0° 15°	1.3 max	Dh
DL8bl	X		.275	.035	.016	.054	.010	.520	.310	.100			.175		.110	Da
DL8bm		X	3.4 4.1	.51 .76	.38 .53	1.3 1.5	.20 .38	9.2 9.7	6.2 6.4	2.2 2.7	7.3 7.8		3.0 3.4		.64 1.1	Dh
DL8bn		X	4.7 max	.50 min	.45	1.5 max	.25	10.2	6.4	2.5	7.6		3.5		1.2	Dh
DL8bo		X	3.8	.50 min	.45	1.0 typ	.22	10.1	6.3	2.5 typ	7.6		3.1 min		1.1	Dp
DL8bp		X	5.08	.50 1.7	.45	1.5	.20 .30	10.1	7.3	2.5	7.3 8.1		3.1 min		2.5	Dh
DL8bq		X	3.0 5.0	.25 .76	.38 .58	.76 1.7	.20 .38	9.4 10.1	5.8 7.3	2.5 BSC	7.6 BSC		1.7 3.4	10°	.76 1.2	Dm
DL8br		X	5.08 max	.51 min	.38 .50		.20 .30	9 10	6.3	2.5	7.6		3.0	15°	1.27 max	Dh
DL8bs		X	5.08 max	0.8 min	1.3 typ	0.4 0.6	0.35 max	10.0 max	6.5 max	2.54	7.62		2.8 min	15° max		Dc
DL8bt		X	5.08 max	.51 min	.41 .51	1.40 1.65	.20 .30	10.9 max	6.99 max	2.54	7.87 max		3.18 4.06	15° max	1.14 1.65	Dh
DL8bu		X	4.45 max	.51 min	.38 .51	1.02 1.52	.20 .30	9.4 10.16	6.1 6.6	2.54	7.62		2.92 3.43	10° max	.76 1.27	Dc
DL8bv	X			.025 min	.016	.054	.010	.520	.290	.100	.310		.175			Dq
DL8bw		X	4.2 max	0.5 min	0.45 min	1.5 max	0.25 min	10.2 max	6.4 max	2.54	7.6		3.5		1.2	Dc

DL10																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL10a	X		.145 .155	.020 min	.015 .021		.009 .015	.570 max	.245 .255	.100 typ	.300 .320		.125 min		.060 .090	Dc
DL10b		X	4.8 max	.50 min	.48 .58	1.54	.35 max	12.2	6.4	2.34 2.74	7.4 8.4		3.3		1.05 max	Dc

15. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14a	X		.200 max	.020 min	.015 max	.040 .023	.008 .012	.785 max	.240 .280	.090 .110	.290 .310		.100 min.	0° 15°		Dr
DL14b	X		.150	.020 min	.019 typ			.760	.260	.100 typ			.160			Dh
DL14c	X		.197	.020 min	.019 typ			.797	.256	.100 typ	.394		.196			Dh
DL14d	X		.220	.020 min	.019 typ			.690	.250	.100 typ	.350		.080			Dh
DL14e	X		.180 max	.020	.019 typ			.725 max	.265 max	.100 typ	.360 max		.125			Dh
DL14f	X		.200	.015	.019 typ	.040 .050		.780 max	.240 .280	.100 typ	.300 .400					Dh
DL14g	X		.200	.015	.019 typ	.040 .050		.750 max	.500	.100 typ	.600 .700					Dh
DL14h	X		.160 max	.015 min	.019 typ	.040 .050		.740 .770	.240 .280	.100 typ	.325 .375		.120 min			Dh
DL14i	X		.170 .219	.020 min	.019 typ	.045 .065		.755 .785	.265 .291	.100 typ	.375		.100 .165			Dh
DL14j	X		.170	.020 .040	.019 typ			.765	.256	.100 typ	.300		.125			Dh
DL14k	X		.220 max	.015 min	.019 typ	.030 .070		.785 max	.220 .325	.100 typ	.300		.100 min			Dh
DL14m	X		.200	.015 .080	.019 typ	.045 .065		.750 .785	.244 .271	.100 typ	.380		.125 min			Dh
DL14n	X		.110 .200	.020 .050	.019 typ	.030 .070		.700 .785	.230 .270	.100 typ	.290 .310		.125 .150			Dh
DL14o	X		.175	.025	.019 typ	.060		.765	.248	.100 typ	.300		.125 .145			Dh
DL14p	X		.140 max	.029	.019 typ			.699 max	.244 .255	.100 typ	.299		.124 .154			Dh
DL14q	X		.200 max		.019 typ			.796 max	.220 .310	.100 typ	.290 .320		.125 .200			Dh
DL14r	X		.200 max		.019 typ			.785 max	.220 .310	.100 typ	.290 .320		.125 .200			Dh
DL14s	X		.200 max	.030	.023 max	.070 max	.015 max	.740 max	.240 .270	.100	.310 max		.100 min		.062	Df
DL14t	X				.018	.060		.750	.250	.100	.300		.135			Dp
DL14u	X		.200 max		.015 .023		.008 .015	.750 max	.240 .280	.100			.125 min	0° 15°		Dp

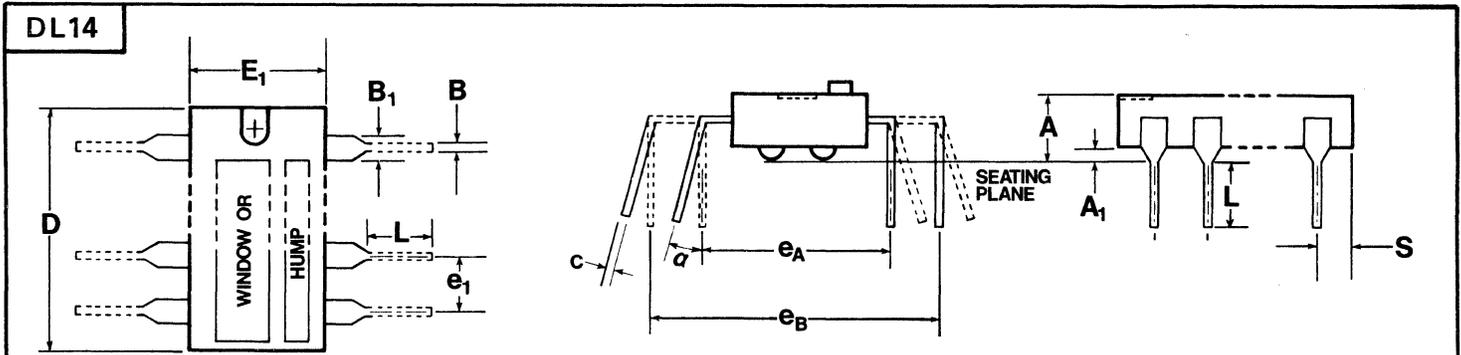
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15. OUTLINE DRAWINGS

DL14																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14v	X		.200 max		.016 .020	.045 .065	.009 .011	.740 .760	.240 .260	.100	.290 .310		.100 .150			Dp
DL14w	X		.200 max		.017		.013 max	.783 max		.100	.290 .310		.100	15° max		Dp
DL14x	X		.200 max		.015 .021	.070 max	.008 .014	.710 .770	.240 .260	.100	.290 .310		.125 min			Dp
DL14y	X		.156 max		.018	.060	.009 .011	.740	.252 max	.100	.300 .310		.125 max	5°		Dp
DL14z	X		.145 .155		.015 .021		.009 .015	.770 max	.245 .255	.100	.300 .320		.125 min			Dp
DL14aa	X		.160 .200		.017 .019	.058 .062	.010 .012	.760 .770	.260 .270	.100			.120 min			Dp
DL14ab	X		.181		.017	.059	.009	.744 .755	.244 .251	.100	.291 .307		.122 .141			Dp
DL14ac	X		.154		.016 .023	.059 .071	.009 .014	.798 max		.100	.299		.118 min			Dp
DL14ad	X		.177 max		.020	.047	.010	.763	.260	.100	.300		.216 min			Dp
DL14ae	X					.048 .050	.009 .010	.685 .715	.235 .265	.095 .105	.305 max		.180 ref	10°		Dh
DL14af	X		.200 max	.015 min	.016 .020		.009 .011	.750 .785	.240 .280	.090 .110	.290 .310		.100 .160			Dj
DL14ag	X		.200 max		.015 .023		.008 .015	.660 .780	.220 .280		.325 max		.100 min			Dj
DL14ah	X		.200 max	.020 min	.015 .023		.008 .014	.755 .785	.245 .285	.100	.290 .310		.130 min			Dj
DL14ai	X		.130	.035	.018		.015	.736 .751	.280	.100	.310		.150			Dj
DL14aj	X		.180 max	.040 .075	.015 .019		.008 .011	.725 max	.280 max	.090 .110	.320 max		.105 .145			Dh
DL14ak	X		.200 max		.015 min	.040 min	.009 .011	.750 .785	.245 .271	.090 .110	.290 .310		.100 .165			Dh
DL14am	X		.200 max		.015 min	.040 min	.009 .011	.750 .800	.240 .290	.090 .110	.290 .310		.100 .110			Dh
DL14an	X		.160 max	.050	.014 .020	.035 .050	.008 .010	.695 .730	.250 .265	.090 .110	.300		.120 min		.050	Dc
DL14ao	X		.130 .160	.015 .035	.015 .021	.044 .052	.010 .015	.745 .755	.245 .250	.090 .110	.290 .310		.120 .130		.065 .085	Dh
DL14ap	X			.015 min	.015 .023	.040 .050	.008 .015	.740 .770	.240 .280	.090 .110	.290 .310		.120 min			Dh
DL14aq	X		.180 max	.040 typ	.020 typ	.060 typ	.010 typ	.765 max	.250	.092 .108	.300 nom		.130		.020	Dh
DL14ar	X				.020	.042		.770	.270	.100	.270					Dh
DL14as	X		.175	.025	.015 .021	.060	.008 .012	.765	.248	.100	.300		.125 .150			Dh
DL14at	X		.200 max	.020 min	.015 .023	.030 .070	.008 .015	.660 .785	.220 .280	.100	.300		.080 min			Dh

(Continued)

15. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14au	X		.160 max	.025	.018 .022	.045 .065	.009 .011	.740 .760	.240 .260	.100 typ	.290 .310		.125 min			Dh
DL14av	X			.015 .060	.016 .020	.045 .065	.009 .011	.750 .785	.245 .271	.100 typ	.308 .314		.135 min		.083 .113	Dh
DL14aw	X		.130 .160	.015 .035	.015 .021	.044 .052	.010 .015	.745 .755	.245 .252	.090 .110	.290 .310		.120 .135		.065 .085	Dh
DL14ax	X		.196 max	.019 min	.018		.010	.783 max			.300		.125			Dc
DL14ay	X				.016 .023	.059 .071	.009 .014	.798 max			.299 .354		.118 min			Dc
DL14az	X		.160 .180	.020 .040	.015 .020	.040 .060	.008 .012	.715 .740	.240 .260	.100	.240 .260		.115 .135	10° max	.052 .072	Dm
DL14ba	X		.200 max	.020 min	.015 .021	.040 .070	.008 .015	.710 .770	.240 .260	.100	.240 .260		.115 min	0° 15°	.052 .095	Dm
DL14bb ³		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	20.22 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08	0° 15°	2.49 max	Dh
DL14bc		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	20.22 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08	0° 15°	2.49 max	Dr
DL14bd		X	5.08 max	.38 1.52	.36 .58	.76 1.78	.20 .38	20.22 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08		2.49 max	Da
DL14be	X		.145 .188	.020 .040	.017 .021	.030 .034	.010 .012	.745 .785	.243 .263	.099 .101	.300		.115 .135	15° max		Dc
DL14bf	X		.200 max	.020 .070	.016 .020	.055 .065	.008 .012	.785 max	.280 max	.090 .110	.360 .410		.125 min	15° max		Dc
DL14bg	X		.160 .194	.015 .025	.018 typ	.058 min	.009 .011	.755 .785	.245 .286	.100 typ	.375 nom		.115 .135	15° max		Dc
DL14bh	X		.200 max	.020 min	.023 max	.031 max	.014 max	.787 max	.259 max	.100	.300		.118 min	15° max		Dc
DL14bi	X				.015 min			.765	.250	.100 typ	.300		.136	15° max		Dc
DL14bj	X		.170 .200	.025	.018 typ	.060 typ	.009 .011	.740 .770	.240 .260	.090 .110	.375		.125 min	15° max		Dc
DL14bk	X		.200 max	.020 .030	.015 .023	.030 .070	.008 .015	.660 .785	.220 .280	.100	.300		.100 min	15° max		Dc
DL14bm	X		.200 max	.015 .060	.016 .020	.045 .065	.009 .011	.750 .785	.265 .291	.100 typ	.308 .314		.125 .200	15° max		Dc
DL14bn	X		.165 .215	.020 .040	.015 .023		.008 .014	.755 .785	.302 max	.090 .110	.300 .395		.125 .165	15° max		Dc

³May also be in pkgs. DL14bc or DL14bd. Consult Mfr.

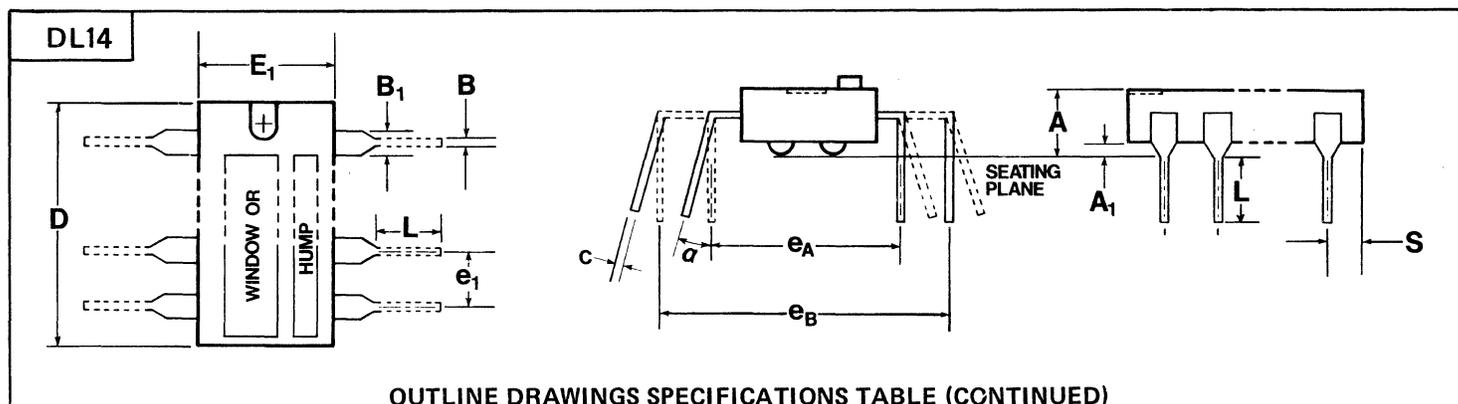
(Continued)

15. OUTLINE DRAWINGS

DL14																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
DL14bo	X		.200 max	.010 .020	.016 .020	.045 .065	.009 .011	.740 .760	.240 .260	.090 .110	.290 .310		.100 .150		.070 .080	Dd
DL14bp	X		.170 .200		.015 .020	.057 .063	.008 .012	.740 .780	.240 .270	.090 .110	.290 .325		.115 .135	0° 15°	.070 .115	Dp
DL14bq	X		.200 max		.014 .022	.047 .059	.008 .014	.744 .783	.240 .279		.290 .309		.100 min	0° 15°		Dp
DL14br	X		.200 max		.016 .020	.045 .065	.009 .011	.750 .785	.245 .271	.090 .110	.290 .310		.100 .165		.065 .095	Dp
DL14bs	X		.140	.060	.016 .020	.050	.008 .012	.700	.250	.100	.300		.138	8°		Dh
DL14bt	X				.018		.008 min	.750	.250	.100	.300		.140	0°		Dh
DL14bu	X		.200		.018		.008	.750		.100	.300		.140			Dh
DL14bv	X		.225 max	.030 .060	.015 .019	.037 .050	.008 .012	.730 max	.290 max	.090 .110	.310 max		.125 min		.040 .060	Dp
DL14bw	X		.200 max	.020 min	.015 .021	.070 max	.008 .014	.710 .770	.240 .260	.100 typ	.290 .310		.125 min	0° 15°	.055 .095	Dc
DL14bx		X	4.06 5.08	.38 1.14	.43 .48	1.47 1.57	.25 .29	19.31 19.55	6.60 6.86	2.52 2.56	7.62 nom		3.05 min		1.78 min	Dc
DL14by	X					.042		.770	.270		.300				.085	Dh
DL14bz		X	5.08 max	.38 nom	.41 .51	1.14 1.65	.23 .28	18.8 19.3	6.1 6.6	2.29 2.79	7.37 7.87		2.54 3.81		1.78 2.03	Dc
DL14ca		X	2.79 5.08	.51 1.27	.38 .58	.76 1.78	.20 .31	17.8 19.9	5.84 6.86	2.29 2.79	7.37 7.87		3.18 3.81	0° 15°		Dh
DL14cb	X		.110 .180	.030 .060	.015 .021	.045 .060	.008 .012	.690 .785	.280 .310	.090 .110	.290 .320		.090 .095		.045 .095	Db
DL14cc		X	4.19 max	.508 1.52	.381 .584	1.37 typ	.203 .381	19.30 max	7.569 max	2.29 2.79	7.62 ref		3.18 min		1.02 1.52	Db
DL14cd		X	5.08 max	.508 1.78	.406 .508	1.40 1.65	.203 .305	19.94 max	7.39 max	2.29 2.79	7.37 8.13		3.18 min		2.54 max	Dp
DL14ce		X	3.68 3.98	.508 min	.381 .533		.229 .381	19.59 max	6.22 6.48	2.54 typ	7.62 8.13		3.18 min		1.52 2.29	Dh
DL14cf		X	4.45 min	.51 min	.38 .54	1.52	.17 .33	19.22 19.85	6.60 7.62	2.54 typ	7.9		4.06	0° 15°		Dh
DL14cg	X		.200 max	.020 min	.015 .023	.035 .065	.008 .014	.735 .785	.240 .260	.090 .110	.290 .310		.100 min	0° 15°	.075 ref	Dp
DL14ch		X	3.30	.89	.46	1.27		18.69 19.08	7.11	2.54	7.87		3.81			Db
DL14ci		X	5.08 max	.51 min	.39 .58	.89 1.65	.21 .35	18.67 19.93	6.10 6.60	2.29 2.79	7.37 7.87		2.54 ref	0° 15°	1.90 ref	Dp
DL14cj		X	1.65 4.32	.23 1.52	.38 .53	1.14 1.52	.20 .30	17.02 18.03		2.54	7.62		3.05 6.10	10° max	.64 1.78	Db
DL14ck		X	4.70	.635	.457 .508	1.47 1.58	.229 .279	19.05 20.32	6.10 7.37	2.29 2.79	7.37 7.87		2.54 2.79			Dp
DL14cm		X	4.57 max	1.02 typ	.508 typ	1.52 typ	.254 typ	19.30 19.43	6.35	2.34 2.74	7.62 nom		3.30	7°	.508	Dp
DL14cn		X	3.18 6.10	.381 1.52	.381 .584	.762 1.78	.203 .381	19.81 max	6.10 7.87	2.29 2.79	7.37 8.13		3.18 5.08			Dh
DL14co		X	5.59 max	.381 1.52	.381 .582	1.14 1.52	.203 .381	19.58 max	5.46 6.00	2.29 2.79	7.11 7.87		2.54 4.06			Dh

(Continued)

15. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL14cp		X	5.1 max	.51 min	.45		.25	20.0 max	7.1 max	2.54			3.3			Dc
DL14cq	X		.172 max	.020 min	.015 .021	.060 .072	.008 .012	.756 .780	.234 .254	.100 typ	.290 .310		.118 min			Dp
DL14cr	X		.201 max	.020 min	.032 max	.062 max	.014 max	.787 max	.260 max	.100	.325 max		.118 min	0° 15°		Dp
DL14cs		X	5.06 max	.51 min	.38 .58	1.3	.20 .35	20.32 max	7.4 max	2.29 2.79	7.62		2.54 min	0° 15°		Dc
DL14ct	X		.140 max	.020 .050	.016 .020		.008 .012	.740 .810	.290 max	.095 .105	.300 nom		.125 .175			Db
DL14cu		X	4.32 max		.381 .508	1.15 1.66	.203 .305	18.79 19.31	6.1 6.61	2.42 2.67	7.47 7.78		3.05 4.45	15°		Dp
DL14cv		X	4.32 max		.381 .508	1.15 1.53	.203 .305	18.03 19.31	7.08 7.62	2.42 2.67	7.47 7.78		3.18 4.45			Db
DL14cw		X	3.94 5.46	.38 .89	.41 .51		.23 .30	19.56 20.57	12.19 12.70	2.54	7.62		3.81 5.33		2.03 2.79	Dv
DL14cx		X	4.57 7.98	.635 1.520	.381 .508	1.32 typ	.203 .305	17.14 19.30	7.16 8.03	2.54 typ	7.54 8.03		3.18 3.81			Db
DL14cy	X		.18 max	.085 max	.015 .021	.033	.008 .014	.77 max	.25	0.1	.3		.125			Di
DL14cz	X		.175 .195	.015 .035	.016 .020	.035 .045	.009 .012	.780 .800	.298 .318	.095 .105	.290 .310		.165 .185	15°	.045 .055	Da
DL14da		X	4.7 max	.50 min	.45	1.5 max	.25	17.6	6.4	2.5	7.6		3.5		1.2	Dh
DL14db		X	2.9	.89	.43	1.1		17.7	7.3	2.5	7.6		4.5			Db
DL14dc		X	4.3 max	.51 min	.38 .54	1.52 1.82	.20 .30	19.2 19.8	5.95 6.45	2.54	7.3 7.8		3.0 min	15°	1.8 2.3	De
DL14dd		X	5.08 max	0.8 min	.4 .06	1.22 typ	.019 .035	19.5 max	6.5 max	2.54	7.62		3.1 min	15° max		Dp

DL16																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16a ²	X		.245	.050				.900	.590	.100 typ	.600					Dk
DL16b	X		.170 .190	.020 min	.015 .023	.040 .060	.008 .012	.750 .770	.240 .260	.100 typ	.290 .310		.100 min	0° 15°	.022 .038	Dp
DL16c	X				.015 .020	.057 .063	.008 .012	.740 .780	.240 .270	.090 .110	.290 .325		.115 .135	0° 15°	.015 .035	Dp
DL16d	X		.130 .140	.015 min	.015 .023	.028 .036	.008 .015	.740 .770	.240 .280	.090 .110	.290 .310		.120 min	0° 15°		Dp

²Pins 8, 15 and 16 omitted

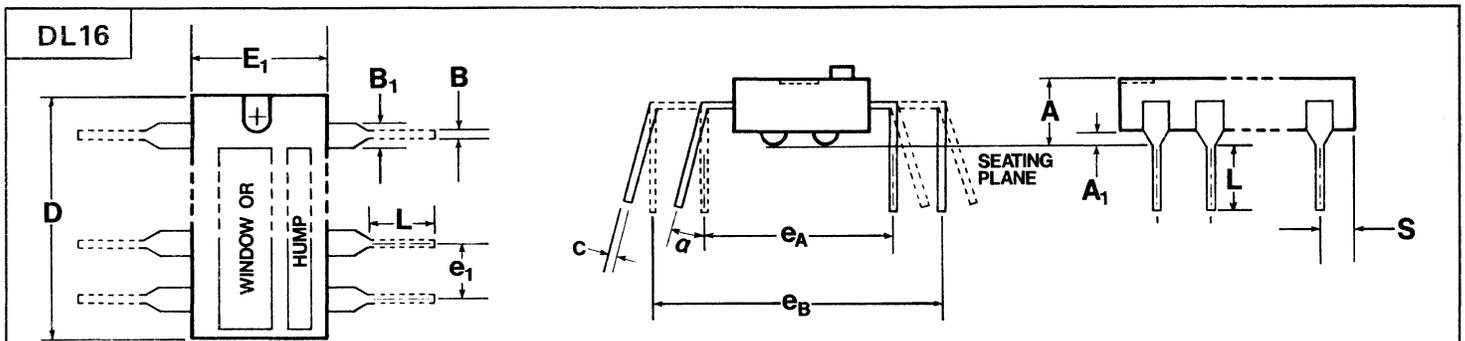
(Continued)

15. OUTLINE DRAWINGS

DL16																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16e	X		$\frac{.160}{.200}$	$\frac{.015}{.045}$	$\frac{.017}{.019}$	$\frac{.058}{.062}$	$\frac{.010}{.012}$	$\frac{.760}{.770}$	$\frac{.260}{.270}$		.300		.120 min	0° 15°		Dp
DL16f	X		.200 max	.020 min	.023 max	.062 max	.014 max	.787 max	.275 max	.100	.324 max		.118 min	0° 15°	.050 max	Dp
DL16g	X				.018 typ		.009 typ	.810 max	.265 max	$\frac{.090}{.110}$	.325 max		.150 min	0° 15°		Dp
DL16h	X		.200 max	.020 min	$\frac{.015}{.023}$	$\frac{.035}{.065}$	$\frac{.008}{.014}$	$\frac{.735}{.765}$	$\frac{.240}{.260}$	$\frac{.090}{.110}$	$\frac{.290}{.310}$		.100 min	0° 15°		Dp
DL16i	X		.145	.015	$\frac{.015}{.020}$	$\frac{.045}{.055}$	$\frac{.009}{.011}$	.750	.250	.100	.300		.135		.025	Dp
DL16j	X		.200 max	.015	$\frac{.015}{.020}$	$\frac{.045}{.065}$	$\frac{.009}{.011}$	$\frac{.740}{.760}$	.250	.100	.300		.100 .150		.025	Dp
DL16k	X		$\frac{.170}{.219}$	.020 min	$\frac{.016}{.020}$	$\frac{.045}{.065}$	$\frac{.009}{.011}$	$\frac{.755}{.785}$	$\frac{.265}{.291}$	$\frac{.090}{.110}$	$\frac{.290}{.310}$		.100 .165		.015 .045	Dp
DL16m	X		.200 max	.020 min	$\frac{.016}{.020}$	$\frac{.045}{.065}$	$\frac{.009}{.011}$	$\frac{.750}{.785}$	$\frac{.245}{.271}$	$\frac{.090}{.110}$	$\frac{.290}{.310}$		.100 .165		.015 .045	Dp
DL16n	X		.200 max	.020 min	$\frac{.015}{.021}$	$\frac{.055}{.070}$	$\frac{.008}{.012}$	$\frac{.750}{.785}$	$\frac{.240}{.295}$	$\frac{.090}{.110}$	$\frac{.295}{.350}$		.100 .165		.015 .045	Dp
DL16o	X		.200 max	$\frac{.020}{.030}$	$\frac{.015}{.020}$	$\frac{.030}{.070}$	$\frac{.008}{.012}$	$\frac{.740}{.780}$	$\frac{.220}{.280}$	.100	$\frac{.290}{.310}$		.100 min		.015 .035	Dp
DL16p	X		$\frac{.115}{.125}$	$\frac{.015}{.035}$	$\frac{.015}{.021}$	$\frac{.044}{.052}$	$\frac{.010}{.015}$	$\frac{.745}{.755}$	$\frac{.245}{.252}$	$\frac{.090}{.110}$	$\frac{.290}{.310}$		.120 .135		.020 .030	Dp
DL16q	X		.200 max	.020 min	$\frac{.015}{.023}$	.070 max	$\frac{.008}{.014}$	$\frac{.755}{.785}$	$\frac{.245}{.280}$	.100	$\frac{.290}{.310}$		.130 min		.015 .060	Dp
DL16r	X		$\frac{.130}{.160}$	$\frac{.015}{.035}$	$\frac{.015}{.021}$	$\frac{.044}{.052}$	$\frac{.010}{.015}$	$\frac{.745}{.755}$	$\frac{.245}{.250}$	$\frac{.090}{.110}$	$\frac{.290}{.310}$		.120 .130		.015 .035	Dh
DL16s	X		.184	.014 min	$\frac{.014}{.024}$	$\frac{.044}{.055}$	$\frac{.008}{.014}$	$\frac{.744}{.860}$	$\frac{.241}{.251}$	.100	.324 max		.111 .136			Dh
DL16t	X		$\frac{.130}{.160}$	$\frac{.015}{.035}$	$\frac{.015}{.021}$	$\frac{.044}{.052}$	$\frac{.010}{.015}$	$\frac{.745}{.755}$	$\frac{.245}{.252}$	$\frac{.090}{.110}$	$\frac{.290}{.310}$		.120 .130		.065 .085	Dh
DL16u	X		.165 max		$\frac{.015}{.019}$	$\frac{.037}{.050}$	$\frac{.008}{.012}$		.280 max	$\frac{.090}{.110}$	.310 max		.125 min			Dh
DL16v	X		.194 max	.015 min				.808 max	.294 max	$\frac{.095}{.105}$	.300 typ		.130 typ			Db
DL16w	X		.200 max	.020 min				.870 max	.300	$\frac{.095}{.105}$	.300		.130			Dc
DL16x	X		.196 max	.019 min	.018		.010	.881 max		$\frac{.090}{.106}$	.300		.125		.031 min	Dc
DL16y	X		.181 max	.019 min	.017			$\frac{.779}{.787}$		.100	$\frac{.299}{.322}$		.122 .161		.039 .047	Dc
DL16z	X		.200 max	.015 nom	$\frac{.016}{.020}$		$\frac{.009}{.011}$	$\frac{.740}{.760}$		$\frac{.090}{.110}$	.375 nom		.100 .150			Dc
DL16aa	X		.196 max	.019 min	$\frac{.015}{.023}$		$\frac{.007}{.011}$	.795 max		$\frac{.090}{.109}$	$\frac{.298}{.301}$		.118 min			Dc
DL16ab	X		.197 max	.032 min	.024 max		.014 max	.866 max		.100	.300		.122 min	0° 15°		Dc

(Continued)

15. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16ac	X		.181 max	.019 min	.017			.779 .787		.100	.299 .322		.122 .141		.039 .047	Dc
DL16ad	X		.160 .180	.020 .040	.015 .020	.040 .060	.008 .012	.815 .840	.240 .260	.100 typ	.290 .310		.115 .135	0° 10°	.052 .072	Dp
DL16ae	X		.185 max	.035 min	.020 max	.051	.011 max	.846	.248	.090 .110	.324 max		.145			Dc
DL16af	X		.181 max	.039	.017		.009	.779 .787	.244 .251	.090 .109	.299 .322		.122 .141			Dc
DL16ag	X		.150 min	.020 min	.018 typ	.080 typ	.010	.750	.250	.100 typ	.380		.120 min			Dc
DL16ah	X		.200 max		.014 .023	.030 .070	.008 .015	.840 max	.220 .310	.100 typ			.125 .200			Dc
DL16ai	X		.145 .155	.020 min	.015 .021		.009 .015	.870 max	.245 .255	.100 typ			.125 min		.060 .090	Dh
DL16aj	X		.185 max	.035 min	.018		.010	.860 max	.244 .255	.100			.105 .154		.087 max	Dh
DL16ak	X		.185 max	.035 min	.020 max		.011	.850 max	.248 max	.100			.145			Dh
DL16am	X		.200	.035			.010	.860					.121 .154			Dh
DL16an	X		.180 max	.040	.020	.060	.010	.765 max	.250	.092 .108	.300		.130		.020	Dp
DL16ao	X		.170 .200		.015 .020	.057 .063	.008 .012	.740 .780	.240 .270		.290 .325		.115 .135		.015 .035	Dp
DL16ap	X		.196 max	.019 min	.015 .023		.007 .013	.795 max	.255 max	.090 .109	.299 .393		.118 min			Dp
DL16aq	X		.110 max		.020	.047	.010	.760 max	.250	.100	.300		.130 min	0° 15°		Dp
DL16ar	X		.200 max	.020 min	.018	.040	.008 .012	.700	.250	.100 typ	.300		.100 min			Dh
DL16as ⁴		X	3.94 5.08	.51 1.27	.356 .508	.89 1.65	.204 .304	18.93 19.93	6.10 6.60		7.62		3.18 3.81	0° 15°	.39 1.52	Dp
DL16at	X		.140 max	.020 .050	.016 .020		.008 .012	.780 .810	.290 max	.095 .105	.300 nom		.125 .175			
DL16au	X		.145 max	.040 typ	.018 typ	.054 typ	.010 typ	.800	.282 .294	.100 typ	.310 nom		.130 typ	5° typ		Db

⁴This pkg has knob 2.947-3.099 mm high by 2.642-2.717 mm dia centered on top

(Continued)

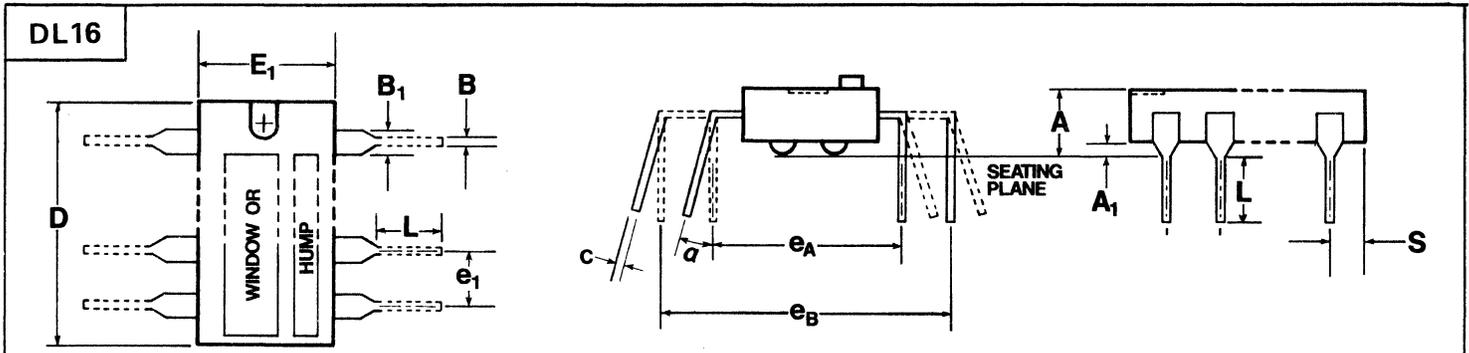
15. OUTLINE DRAWINGS

DL16																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16av	X		.200 max	.047 min	.017		.009	.860 max	.299	.100	.324 max		.117 min		.086 max	Dh
DL16aw	X		.196 max	.019 min	.015 min		.007 min	.795 max	.299 min	.090 min	.298 min		.118 min			Dh
DL16ax	X		.185 max	.035 min	.018		.010	.866 max	.300	.090 min	.325 max		.134 min		.087 max	Dh
DL16ay	X		.185 max	.035 min	.018		.010	.860 max	.300	.090 min	.325 max		.105 min			Dh
DL16az	X		.185 max		.021 max		.013 max	.866 max	.295 min	.090 min	.325 max		.138 min			Dh
DL16ba		X	4.19 5.47	.51 1.02	.380 min	1.78 max	.20 min	19.18 19.94	7.11 max	2.29 min	7.37 8.01		3.18 4.19		.380 1.27	Dp
DL16bb		X	4.19 5.47	.51 1.02	.380 min	.76 1.78	.20 min	19.18 19.94	7.67 max	2.29 min	7.37 8.13		3.18 4.19		.380 1.27	Dp
DL16bc	X		.240	.050				.900	.590	.100 typ	.600					Dk
DL16bd		X	5.08 max	.38 1.52	.36 min	.76 1.78	.20 min	22.76 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08	0° 15°	2.49 max	Dh
DL16be		X	5.08 max	.38 1.52	.36 min	.76 1.78	.20 min	22.76 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08	0° 15°	2.49 max	Dr
DL16bf		X	5.08 max	.38 1.52	.36 min	.76 1.78	.20 min	22.76 max	5.59 7.87	2.54	7.37 8.13		3.18 5.08		2.49 max	Da
DL16bg	X		.110 min	.020 min	.015 min	.030 min	.008 min	.700 min	.230 min	.090 min	.290 min		.125 min	0° 15°		Dh
DL16bh	X		.200 max	.015 nom	.016 min	.045 min	.009 min	.740 min	.240 min	.090 min	.290 min		.100 min			Dh
DL16bi	X		.145 min	.020 min	.015 min		.009 min	.870 max	.255 min	.100	.300 min		.125 min			Dh
DL16bj	X		.160 min	.020 min	.015 min		.008 min	.750 min	.245 min	.100	.290 min		.125 min	15° max		Dc
DL16bk		X	5.08 max	.380 2.03	.36 min	.760 1.78		16.26 19.96	5.59 7.87	2.29 min	7.37 8.13		3.18 5.80			Db
DL16bm		X	2.66 4.45	.630 1.40	.38 min	1.14 1.52		19.93 20.70	7.11 7.87	2.29 min	7.11 8.74		3.18 4.45			Db
DL16bn	X				.020	.042		.870	.690	2.54	.760				.085	Dh
DL16bo		X	5.08 max	.51 min	.38 min	1.78 max	.20 min	22.10 max	6.1 6.6	2.54	7.62		2.92 min	0° 15°	.38 2.41	Dm
DL16bp		X	3.94 5.08	.510 1.27	.360 min	.890 1.65	.20 min	18.9 19.9	6.10 6.98	2.54 typ	7.62 typ		2.54 4.06	15°	.39 1.52	Dp
DL16bq		X	4.06 5.08	.510 1.02	.380 min	1.40 1.65	.20 min	19.05 19.81	6.22 6.98	2.54 typ	7.37 7.87		3.18 4.06	15°	.51 1.14	Dp
DL16br		X	5.3 max	.38 min	.38 min	1.5	.25	20.32 max		2.29 2.79	8.25 max		3.2 4.2		1.27 max	Dp
DL16bs		X	4.19 max	.508 1.52	.381 min	1.37 typ	.203 min	20.57 max	7.51 max	2.29 2.79	7.62 ref		3.18 min		1.02 1.52	Db
DL16bt ⁶		X	4.6 max	.50 min	.45		.25	19.8 20.2	6.2 6.6	2.54	7.4 7.8		3.1 4.1		1.0 1.2	Dc

⁶Pins 4, 5, 6 and Pins 11, 12, 13 attached externally.

(Continued)

15. OUTLINE DRAWINGS



OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL16bu		X	4.45	.51 min	.38 .54	1.52	.17 .33	19.18 19.81	6.86	2.54 typ	7.87		3.55	0° 15°		Dh
DL16bv		X	3.94 6.10	.381 1.52	.381 .584	.762 1.78	.203 .381	19.81 max	6.10 7.87	2.29 2.79	7.37 8.13		3.18 5.08			Dh
DL16bw		X	4.7 max	.51 min	.53 max	1.4 max	.32 max	22.0 max		2.29 2.79	8.25 max		3.4 3.9		2.2 max	Dh
DL16bx		X	5.58 max	.381 1.52	.381 .584	1.14 1.52	.203 .381	19.59 max	5.46 6.00	2.29 2.79	7.11 7.87		2.54 4.06			Dh
DL16by		X	4.7 max	.51 min	.53 max	1.4 max	.32 max	19.5 max		2.29 2.79	8.25 max		3.05 3.43		.76 max	Dh
DL16bz		X	.220 max	.015 min	.014 .023	.030 .070	.008 .015	.725 .785	.220 .325	.100 typ	.300 typ		.100	0° 15°		Dh
DL16ca		X	.201 max	.020 min	.023 max	.062 max	.014 max	.787 max	.260 max	.100 typ	.300 typ		.118 min	0° 15°	.050 max	Dp
DL16cb		X	.172 max	.020 min	.015 .021	.060 .072	.008 .012	.756 .780	.234 .254	.100	.290 .310		.118 min	15° max	.024 .044	Dp
DL16cc		X	.200 max	.015 .080	.015 .023	.045 .065	.009 .011	.750 .785	.265 .291	.090 .110	.290 .320		.125 min		.010 min	Dh
DL16cd		X	.228 max	.035 min	.013 .023		.007 .015	.787 max	.275 max	.090 .109	.298 .301		.110 min			Dh
DL16ce		X	.160 max	.015 min	.015 .023	.090 .110	.008 .015	.740 .770	.240 .280	.100	.290 .310		.120 min			Dh
DL16cf		X	.175	.020 min	.015 .021	.060	.007 .013	.755 .785	.270	.100 typ	.310		.160			Dh
DL16cg		X	.145 .188	.020 .040	.016 .020	.030 .034	.010 .012	.745 .785	.243 .263	.098 .102	.300 nom		.115 .135			Dh
DL16cr		X	5.08 max	.80 min	.40 .60	1.22 typ	.19 .35	19.5 max	6.5 max	2.29 2.79	7.37 7.87		3.1 min	0° 15°		Dp
DL16cs		X	5.08 max	.51 min	.38 .508	1.77 max	.20 .30	19.0 22.44	6.35	2.54	7.62		3.1 3.9	0° 15°		Dc
DL16ct		X	3.2	.88	.43	1.1	.25	20.3	6.7	2.5 BSC	7.8		4.5			Da
DL16cu		X	4.2		.46	1.65 max	.25	20.32	6.35	2.5	7.6		3.2		1.27	Dp
DL16cv		X	.165 max	.035	.018		.010	.810 max	.320 max	.100	.325		.125 min			Dh
DL16cw		X	4.3 max	.50 min	.38 .54	1.52 1.82	.20 .30	19.2 19.8	5.95 6.45	2.54	7.3 7.8		3.0 min	15°	.61 1.11	De
DL16cx		X	4.1	1.1	.38	.94	.20	18.5 max	7.1 max	2.5	7.8 max		3.1 min			Dh
DL16cy		X	.180 max	.018 min	.015 .019			.820 max		.092 .108	.300 nom		.130 typ			Db
DL16cz		X	.130	.035	.017	.047	.010	.800	.290	.100	.310		.125			Db
DL16da		X	5.08 max	0.51 min	0.39 0.58	0.89 1.65	0.21 0.35	18.67 19.93	6.10 6.60	2.54	7.37 7.87		2.54 min	0° 15°	0.64 ref	Di

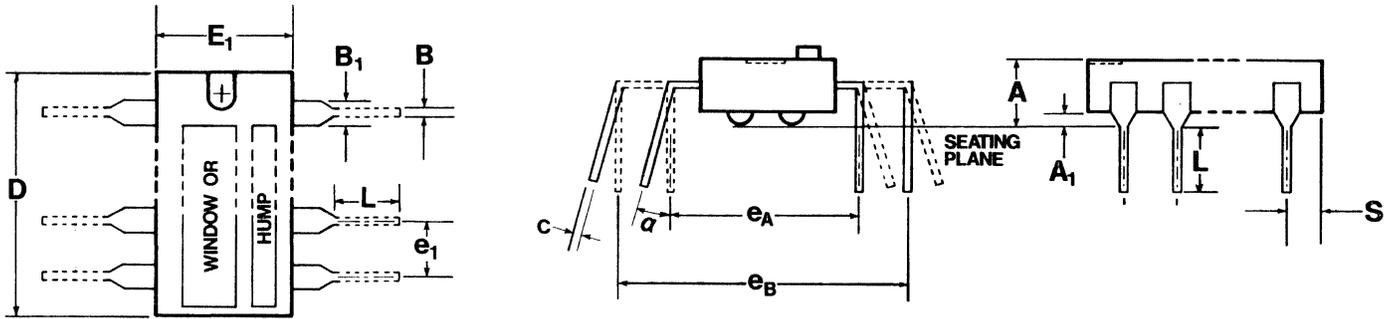
15. OUTLINE DRAWINGS

DL18																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL18a	X		.199 max	.019 min	.019	.059	.009	.905	.251		.299		.122 min	0° 15°		Dp
DL18b	X		.157 max	.019 min		.059 max		.905	.244 .251	.100	.291 .307		.122 .141		.051	Dc
DL18c		X	4.7 max	.51 min	.53 max	1.4 max	.32 max	23.5 max		2.29 2.79	8.25 max		3.4 3.9		1.75 max	Dh
DL18d		X	3.94 6.10	.381 1.52	.381 .584	.762 1.78	.203 .381	22.86 max	6.6 7.87	2.29 2.79	7.37 8.13		3.18 5.08			Dp
DL18e	X		.170 .220	.035	.015 .020	.057 .063	.006 .012	.885 .915	.240 .270	.090 .110	.290 .325		.115 .135	0° 15°	.070 .115	Dp
DL18f	X		0.200 max	.060 .015	.014 .023	.030 .070	.015 .008	.960 max	.310 .220	0.100 bsc	0.320 0.290		0.125 0.200	0° 15°		Dh
DL18g	X		.200 max	.020 .050	.013 .023	.042 .062	.008 .014	.882 .912	.285 .302		.300 typ		.120 .150	0° 15°		Dh
DL18h	X		.197 max	.020 min	.016 .023	.047 .059	.009 .014	.898 max	.240 .260	.100 typ	.299 typ		.118 min	0° 10°	.049 max	Dp
DL18i		X	3.5 4.5	.51 1.0	.36 .56	1.2 1.7	.20 .30	22.2 23.2	6.1 6.6	2.54 BSC	7.62 BSC		2.9 3.4	0° 15°	1.0 1.5	Dd
DL18j		X	5.08 max	.51 1.02	.38 .53	1.4 1.7	.20 .30	22.3 23.1	6.1 7.4	2.54 BSC	7.62 BSC		3.1 4.3	15°	.51 1.14	Dh
DL18k		X	4.3 max		.38 .50	1.1 1.5	.20 .30	22.6 23.1	7.1 7.6	2.4 2.6	7.4 7.7		3.1 4.4			Da
DL18l		X	4.5 max		.38 .50	1.1 1.5	.20 .30	22.6 23.1	6.1 6.6	2.4 2.6	7.4 7.7		3.0 4.4	0° 15°		Dc
DL18m	X		.170 max	.050 max	.015 .020	.045 .060	.010	.890 .910	.28 .30	.100	.300		.125 .175			Db
DL18n	X		.180 max		.015 .020	.045 .060	.010	.890 .910	.24 .26	.100	.300		.12 .175			Dp
DL18o	X		.240 max	.015 .060	.015 .023	.030 .070	.008 .015	.950 max	.260 .310	.090 .110	.290 .320		.125 .200			Dq
DL18p		X	4.2 max	0.5 min	0.45	1.4	0.25	23.5 max		2.54	7.62		3.5		1.3	Db
DL18q		X	4.2 max	0.5 min	0.45	1.5 max	0.25	22.7 max	6.4 max	2.54	7.6		3.5		1.2	Dc

DL20																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL20a		X	3.9 4.1	.51 1.02	.38 .56	1.27 1.78	.20 .38	25.6 27.1	6.10 6.60	2.54 BSC	7.62 BSC		2.7 3.5	15°		Dp
DL20b		X	3.8	.50 min	.45		.22	26.4	6.6	2.5	7.6 8.1		3.1 min	10°	1.5	Dc
DL20c	X		.140 .200	.015 .060	.016 .020	.050 .070	.010	.935 .970	.245 .285	.090 .110	.290 .320		.125 .150	3° 13°		Dg
DL20d		X	5.0		0.5	1.6	0.25	30.2 max	15.3	3.0	17.0		4.1			Ds

15. OUTLINE DRAWINGS

QL8



OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
QL8a	X		$\frac{.140}{.150}$	$\frac{.020}{.030}$	$\frac{.025}{.035}$	$\frac{.025}{.035}$	$\frac{.020}{.030}$	$\frac{.320}{.340}$	$\frac{.260}{.280}$	$\frac{.150}{.170}$	$\frac{.340}{.380}$	$\frac{.620}{.660}$		$\frac{0^\circ}{10^\circ}$		Qc
QL8b	X		$\frac{.135}{.160}$	$\frac{.020}{.030}$	$\frac{.025}{.035}$	$\frac{.025}{.035}$	$\frac{.020}{.030}$	$\frac{.290}{.310}$	$\frac{.260}{.280}$	$\frac{.150}{.170}$	$\frac{.340}{.380}$	$\frac{.620}{.660}$		$\frac{0^\circ}{10^\circ}$		Qc

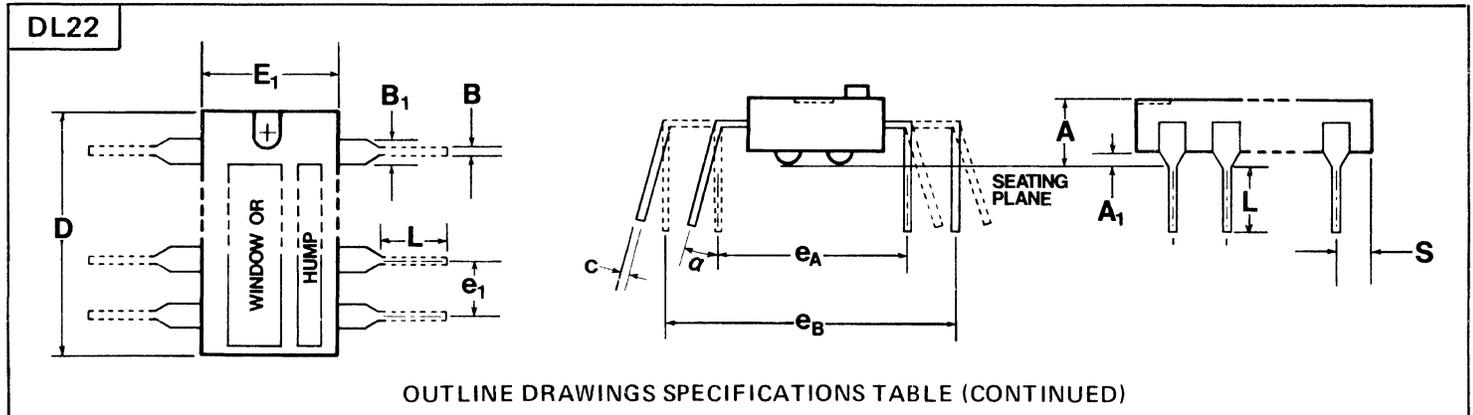
QL14

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
QL14a	X				$\frac{.015}{.023}$	$\frac{.040}{.060}$		$\frac{.750}{.770}$	$\frac{.240}{.260}$	.100 typ	.200 typ	.300 typ	.100 min		$\frac{.070}{.090}$	Qd
QL14b	X		$\frac{.180}{.235}$		$\frac{.017}{.019}$				$\frac{.260}{.270}$	.100 typ	.200 typ	.300 typ				Qd
QL14c	X		.148	.019	.017			.787 max	.225 max	.100	.200	.400	.125			Qe

QL16

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
QL16a	X		.171	.031	$\frac{.016}{.020}$	.051	$\frac{.007}{.009}$	$\frac{.842}{.856}$	$\frac{.248}{.251}$		.200	.400	.140		$\frac{.066}{.082}$	Qa
QL16b		X	4.70 max	.70 min	$\frac{.40}{.53}$		.250	22.00 max	$\frac{6.14}{6.48}$	2.54	5.08	10.16	$\frac{3.20}{3.65}$		2.20 max	Qf

15. OUTLINE DRAWINGS



Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL22a ⁷	X							1.25 nom	.60	.100					.080	Dh
DL22b		X	5.50 max	.50 min	.40 .60		.17 .37	29.5 max	9.0 max	2.29 2.79	9.86 10.46		2.80 min			Dc
DL22c		X	5.06 max	.51 min	.38 .58	1.3	.20 .35	28.1 max	9.9 max	2.29 2.79	10.16		2.54 min	0° 15°		Dp
DL22d		X	5.08 max			1.3	.25	27.0 max	8.6	2.54	10.16		2.54 min			Dc
DL22e		X	3.68 3.93	.508 min	.378 .530		.229 .381	28.4 max	8.76 9.01	2.28 2.79	10.1 10.6		.508 min			Dc
DL22f ⁷	X							1.28		.100	.600 typ				.080	Dh
DL22g		X	3.8 5.4	.25 .89	.38 .53	1.27 1.65	.20 .30	26.8 27.8	9.1 9.9	2.54 BSC	9.9 10.4		3.1 4.3	15°	.51 1.27	Dh

7 Pin 4 omitted

DL24

Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL24a	X		.165 .200	.020 .048	.016 .022		.010 .012	1.23 1.28	.514 .548	.098 .102	.600 typ		.102 .105	5° max		Dc
DL24b	X		.255	.015	.020			1.275		.100	.600		.185		.085	Dc
DL24c	X		.217	.031 min	.015 .023			1.299 max		.100	.600		.122 min			Dc
DL24d	X		.185 .205	.020 .040	.015 .020	.040 .060	.008 .012	1.240 1.265	.520 .540	.100	.590 .610		.115 .135	10°	.065 .085	Dp
DL24e	X		.160 .220	.020 .050	.016 .020	.050 .060	.008 .012	1.23 1.27	.500 .540	.100	.600		.125 .160	5° 15°		Dp
DL24f	X		.200 max	.019 min	.019		.009	1.311 max	.559 max		.599		.137	0° 15°		Dp
DL24g	X				.020	.042		1.275	.570	.100	.600				.085	Dh
DL24h	X		.195	.050				1.20	.590	.100 typ	.600					Dk

15. OUTLINE DRAWINGS

DL24																
OUTLINE DRAWINGS SPECIFICATIONS TABLE (CONTINUED)																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL24i		X	5.1 max	.51 min	.53 max	1.7 max	.32 max	32.0 max	14.1 max	2.54	15.8 max		3.4 3.9			Dh
DL24j ⁷		X	10.2					27.0		2.53 typ	15.0		3.2		2.03 typ	Dh
DL24k		X	5.96 max	.51 min	.38 .61		.23 .47	32.5 max	13.72 max	2.52 2.56	15.24 nom		2.54 min	3°		Dc
DL24m		X					.25	30.48	14.98	2.54	15.24					Dc
DL24n		X	4.0 5.5	.51 1.2	.41 .51	1.2 1.5	.20 .30	31.2 32.7	12.7 15.4	2.54 BSC	15.24 BSC		2.2 4.0	0° 15°		Dh
DL24o		X	3.9 5.0	.51 1.0	.36 .56	1.0 1.5	.20 .30	31.3 32.1	13.7 14.2	2.54 BSC	15.24 BSC		2.9 3.4	0° 15°	1.6 2.0	Dp
DL24p		X	2.6 4.3	1.0 1.5	.38 .53	.76 1.4	.20 .30	27.6 30.9	14.7 15.3	2.54 BSC	14.9 15.4		2.5 4.5	10°	.76 1.7	Dq
DL24q	X		.225 max					1.25 max		.100	.600		.150			Dk
DL24r	X		.150 .225	.015 .060	.016 .020	.045 .065	.009 .011	1.230 1.285	.510 .545	.090 .110	.600 .620		.120 .150	3° 13°		Dg
DL24s	X		.170 .215	.015 .060	.015 .020	.055 .065	.009 .011	1.24 1.27	.515 .540	.090 .110	.585 .700		.125 .160			Dc
DL24t		X	5.1 max	0.5 min	0.45	1.5 max	0.25	31.9 max	14	2.54	15.24		3.5		1.8	Dc
DL24u		X	4.5 max	1.0 min	0.45	1.2	0.25	31.5 max		2.54	15.24		3.5		1.3	Dw

7 Pin 4 omitted

DL28																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL28a	X		.199 max	.032 min	.024 max		.013 max	1.468 max	.539	.090 .109	.600		.132 min			Dc
DL28b		X	5.7 max	.51 min	.38 .58	1.2	.20 .35	36.6 max	14.6 max	2.29 2.79	15.24		2.54 min	0° 15°		Dp
DL28c	X		.217 max	.020 min	.016 .024	.043 .059	.008 .014	1.41 1.44	.506 .518	.090 .110	.588 .612		.110 min			Dc
DL28d		X	5.08 max	.81 max	.38 .58		.19 .35	37.3 min	14.0 max	2.29 2.79	15.0 15.5		3.1 min	0° 15°		Dc
DL28e	X		.245	.050				1.6	.590	.100	.600		.150			Dk

DL32																
Dwg No. Suffix	In	mm	A	A ₁	B	B ₁	C	D	E ₁	e ₁	e _A	e _B	L	α	S	Dwg Style
DL32a	X		.245	.050				1.6	.590	.100	.600					Dk

15. OUTLINE DRAWINGS

FP2											
	A	B	C	D	E	F	G	H	J	K	
FP2	.260	.260	.070	.250	.024		.019	.050			
FP2a	.260	.260	.080	.250	.024		.019	.050			
FP2b	.290	.260	.075	.070	.035	.008	.019	.055	.210		
FP2c	.265		.070	.210	.010	.009	.018	.050	.200		
FP2d	.280	.280	.050					.050			
FP2e	.260	.260	.050	.188				.050			
FP2f	.225	.250	.055								
FP2g	.255	.280	.085	.250		.005	.019	.055			
FP2h	.250	.250	.050	.210	.015	.004	.019	.050	.200		
FP2j	.255	.255	.070	.250	.035		.012	.050			
FP2k	.240	.240		.184		.003	.014	.045			
FP2m	.265	.265	.070	.210	.010	.003	.018	.048	.188		
FP2n	.260	.260	.070	.250	.024	.004	.015	.050	.204		
FP2p	.240	.150	.050	.180	.022	.003	.003	.019	.190	.210	
FP2q	.275	.170				.005					
FP2r	.290	.260	.070	.250	.010	.003	.010	.045		.095	
FP2s	.250	.140	.035	.165	.008	.003	.010	.050		.105	
FP2t	.240	.240	.030	.200	.010	.003	.010	.050	.160	.080	
FP2u	.280	.280	.070	.350	.035	.008	.019	T.P.	.240	.120	
FP2v	.250	.250	.065	.250			.017	.050			
FP2w	.240	.240	.050	.250	.024	.004	.015	.050			
FP2x	.265	.155	.055	.180	.017	.002	.010	.050			
FP2y	.290	.240	.030	.250	.010	.003	.010	.050			
FP2z	.240	.240	.055	.250	.025	.004	.015	.050			
FP2aa	.252	.142	.035	.175	.013	.003	.010	.050			
	.265	.155	.055	.185	TYP	.005	.014	TYP			

FP7											
	A	B	C	E	F	H	J				
FP7	.390	.390	.500	.050		.075	.005X.015				
FP7a	.390	.415	.275			.075	.003X.015				
FP7c	.390	.390	.500	.055	.040	.100	.005X.015				
FP7d	.390	.415	.275	.055	.040	.100	.005X.015				
FP7e	.390	.265				.070	.016				
	MAX	MAX				MAX	.019				

FP10											
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FP18											
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FP19											
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FP24															
	A	B	E	F	G	H	J	K	M	N	P	Q	R	S	T
FP24	.240	.270	.050	.010	.010	.280	.030	.010	.250	.240	.740	.003			
FP24a	.260	MAX		.019	.015	MAX	.070	.035	.370	.260	MIN	.006			
FP24b	.240	.270	.050	.010	.010	.165	.030	.010	.165	.120	.450	.003			
FP24c	.260	MAX		.019	.015	MAX	.070	.035	.250	.155	.760	.006			
FP24d	.240	.290	.050	.010	.015	.290	.030	.005	.250	.240		.003			
FP24e	.275	MAX		.019	MAX	MAX	.060	.035	MIN	.275		.006			
FP24f	.240	.290	.050	.013	.015	.290	.030	.012	.250	.240	.740	.003			
FP24g	.260	MAX		.019	.015	MAX	.070	.035	.370	.260	MIN	.006			
FP24h	.250		.050	.010	.008	.280	.030	.010	.250	.240		.003	.005	.004	30°
FP24i	MAX		.050	.019	.015	MAX	.085	.040	.370	.260		.006	MIN	MIN	90°
FP24j	.280		.050	.010	.008	.220	.030	.010	.165	.120	.450	.003			
FP24k	MAX		.050	.019	.015	MAX	.070	.040	.390	.220	MIN	.006			

15. OUTLINE DRAWINGS

FP28

BASE AND SEATING PLANE

	A	B	C	D	E	F	G	H	J	K
FP28	.371	.247	.310	.940	.015	.010	.050	.050	.003	.020
FP28a	.400	.275	.350	.960	.019	.025	.080	.006	.040	
FP28b	.390	.275		.880	.015	.007	.045	.080	.004	.020
	MAX	MAX		.900	.019	.018	.055	MAX	.006	.040

FP29

B GLASS (SQUARE)

	A	B	C	D	E	F	G	H	J	K
FP29	.900	.230	.010	.045		.014	.030	.003		
	.980	.260	.040	.055		.019	.070	.006		
FP29a	.750	.275	.020	.045	.010	.015	.080	.004		
	.770	MAX	.040	.055	.025	.019	MAX	.006		
FP29b	.750	.240	.015	.050		.010	.030	.0035		
	MIN	.270	.035	TYP		.019	.070	.0060		
FP29c		.250							.140	
FP29d		.257		.050			.045		.147	.180
FP29e	.312	.257	.024	.050		.012	.041	.004	.147	.192

FP31

INDEX AREA; NOTCH OR PIN 1 IDENTIFICATION

OPTIONAL CONFIGURATION. IF THIS CONFIGURATION IS USED, NO ORGANIC OR POLYMERIC MATERIALS SHALL BE MOLDED TO THE BOTTOM OF THE PACKAGE TO COVER THE LEADS.

SYMBOL	INCHES	
	MIN	MAX
A	.030	.085
b	.010	.019
c	.003	.006
D		.290
E	.240	.280
E ₁	.125	
E ₂	.030	
e	.050 BSC	
L	.250	.370
L ₁	.740	
Q	.010	.040
S		.045
S ₁	.005	

FP35

GND IN B+

GND OUT

METAL GROUND

NOTE: PINS 3 & 5 ARE INTERNALLY CONNECTED TO METAL GROUND

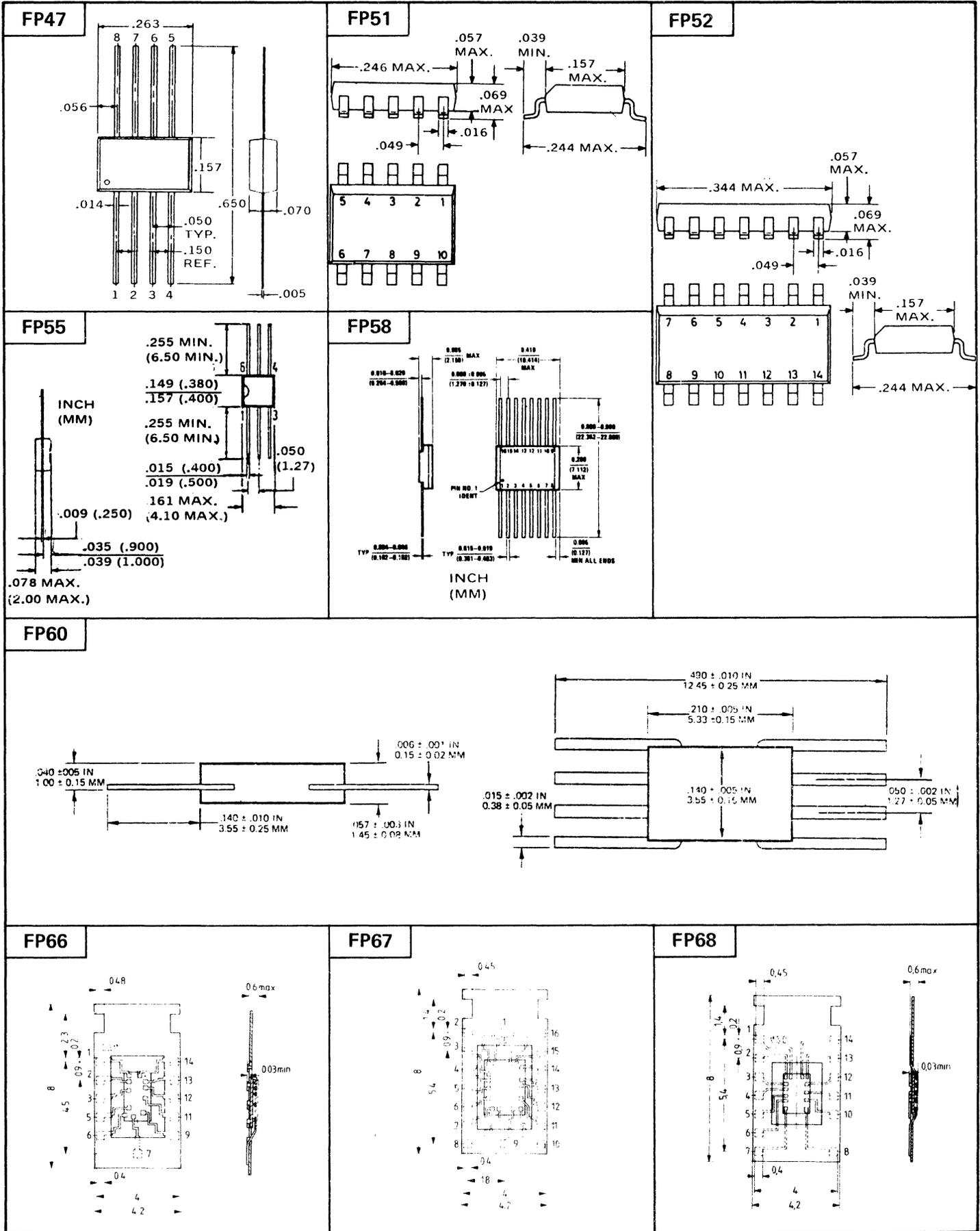
FP37

PIN NO 1 IDENT

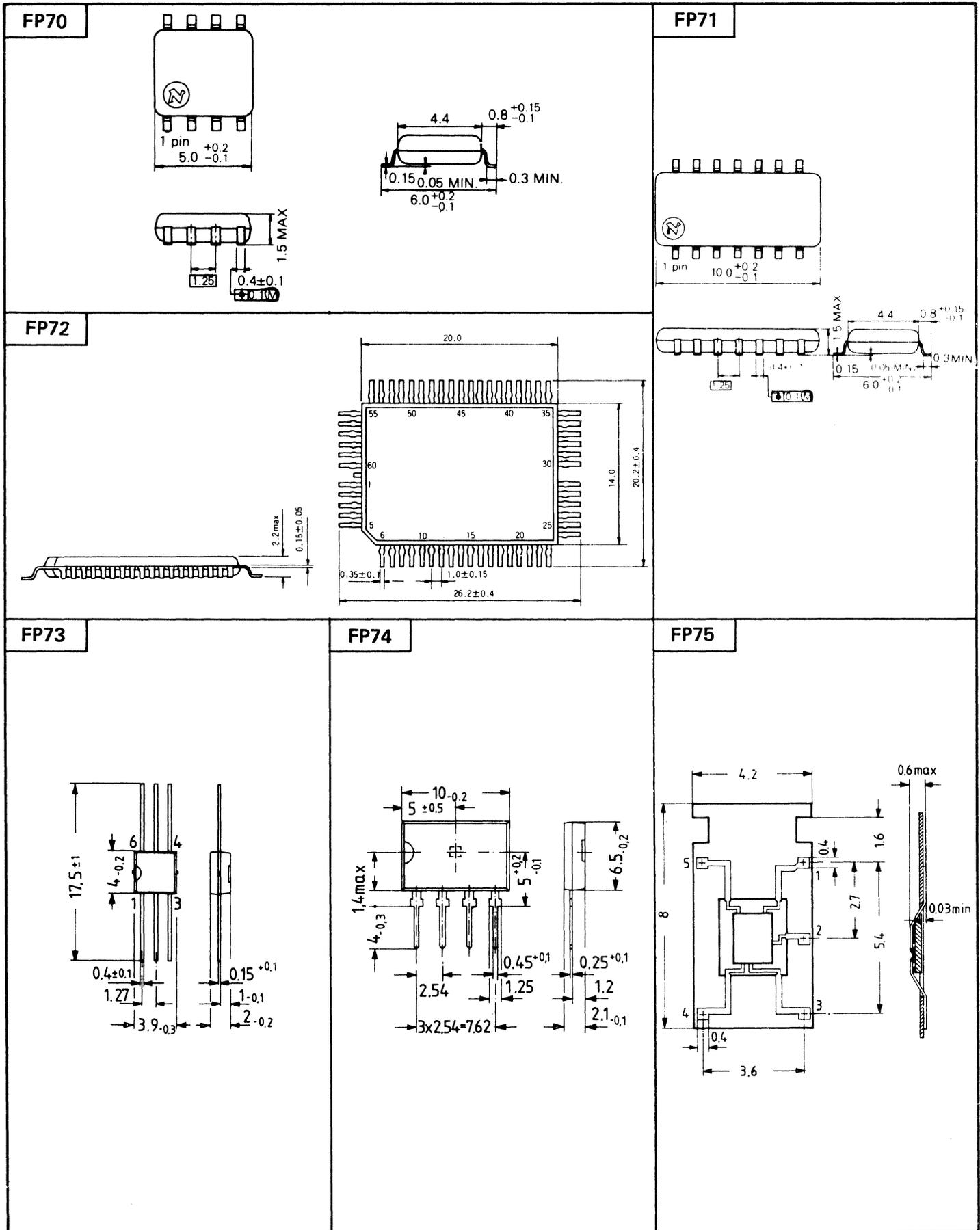
FP42

FP44

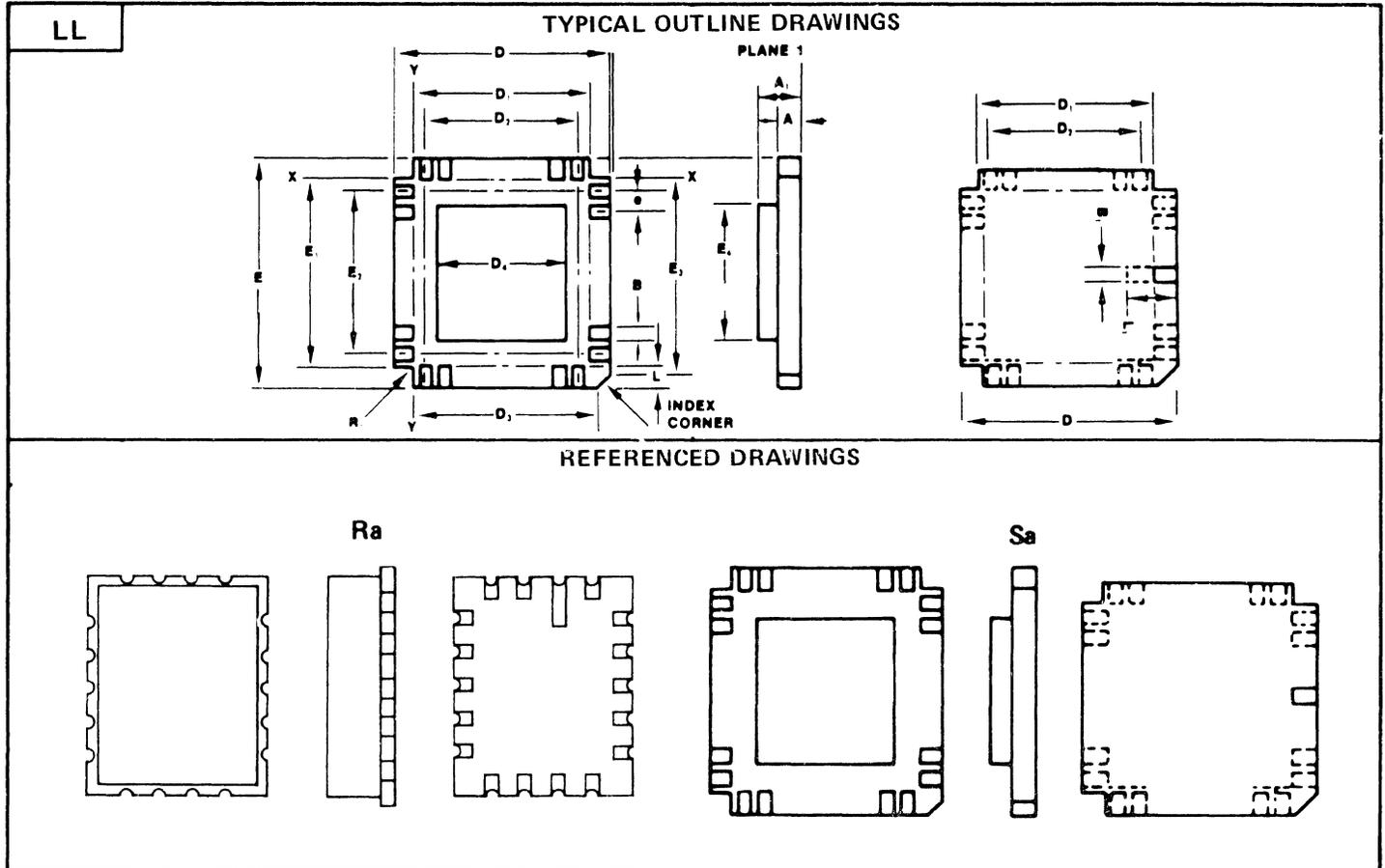
15. OUTLINE DRAWINGS



15. OUTLINE DRAWINGS



15. OUTLINE DRAWINGS



LEADLESS

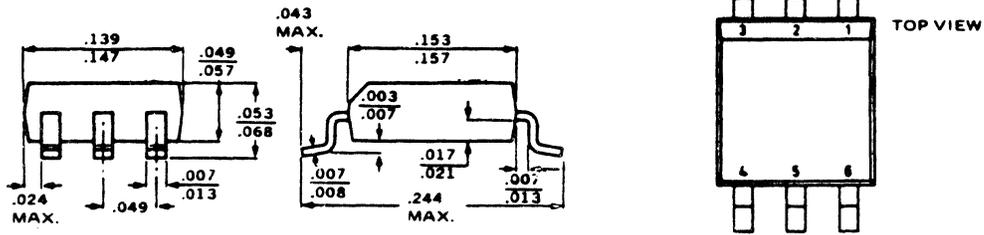
Suffix Code	A	A ₁	A ₂	B	B ₁	B ₂	D	D ₁	D ₂	D ₃	D ₄	E	E ₁	E ₂	E ₃	E ₄	e
LL24a	.075	.090			.020		.400	.380				.400	.380				.050
LL28a	$\frac{.06}{.08}$	$\frac{.05}{.06}$		$\frac{.01}{.02}$			$\frac{.373}{.392}$	$\frac{.45}{.46}$				$\frac{.473}{.492}$	$\frac{.35}{.36}$				.05 BSC

LEADLESS (CON'T)

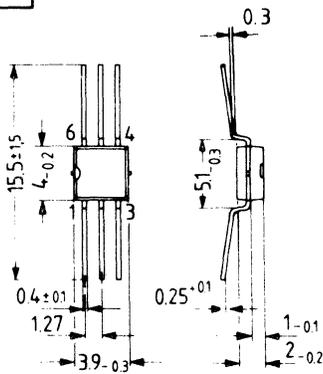
h	h ₁	i	j	j ₁	L	L ₁	L ₂	R ₁	R ₂	S ₁	Ref. Draw.	No. of Pads		CCW
												Length	Width	
						.035					Ra	6	6	
					$\frac{.03}{.04}$						Ra	8	6	

15. OUTLINE DRAWINGS

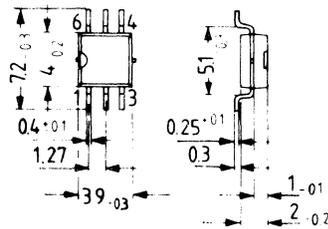
MD6a



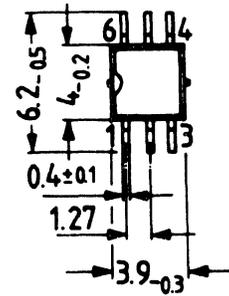
MD6b



MD6c

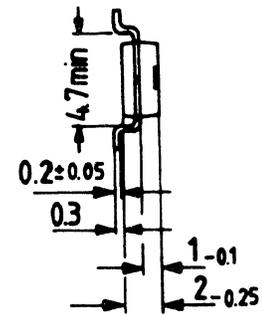
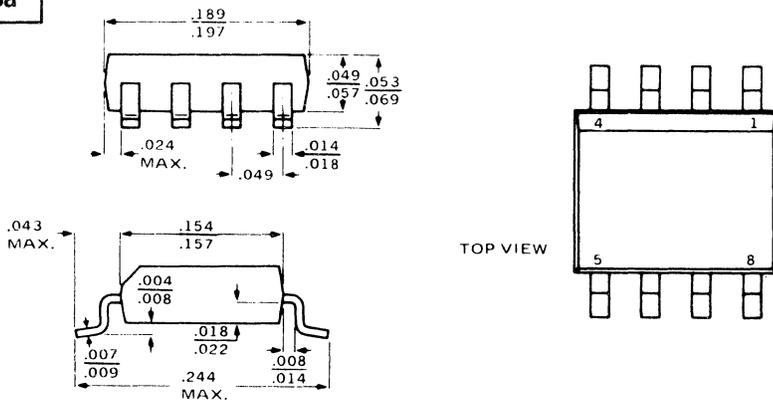


MD6d

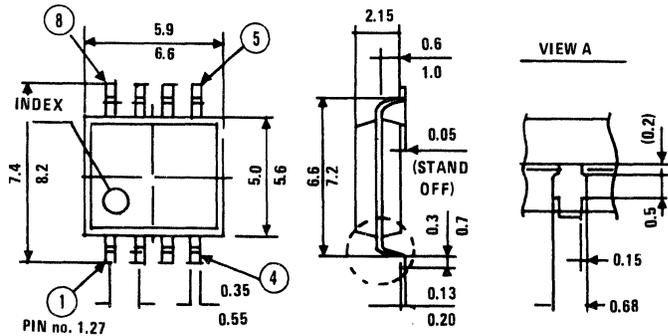


Approx. weight 0.1 g

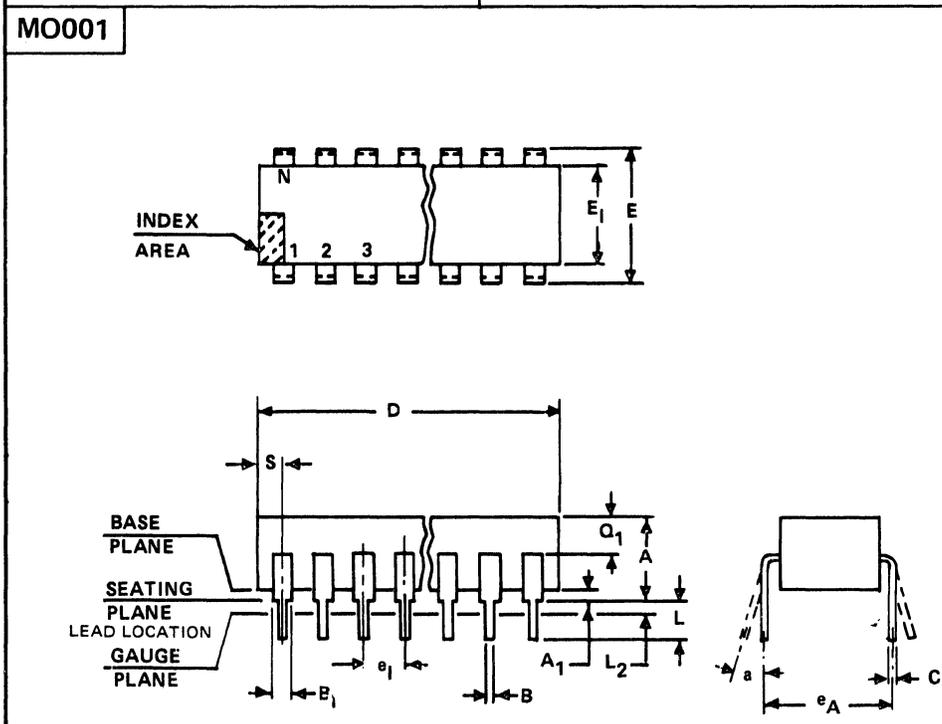
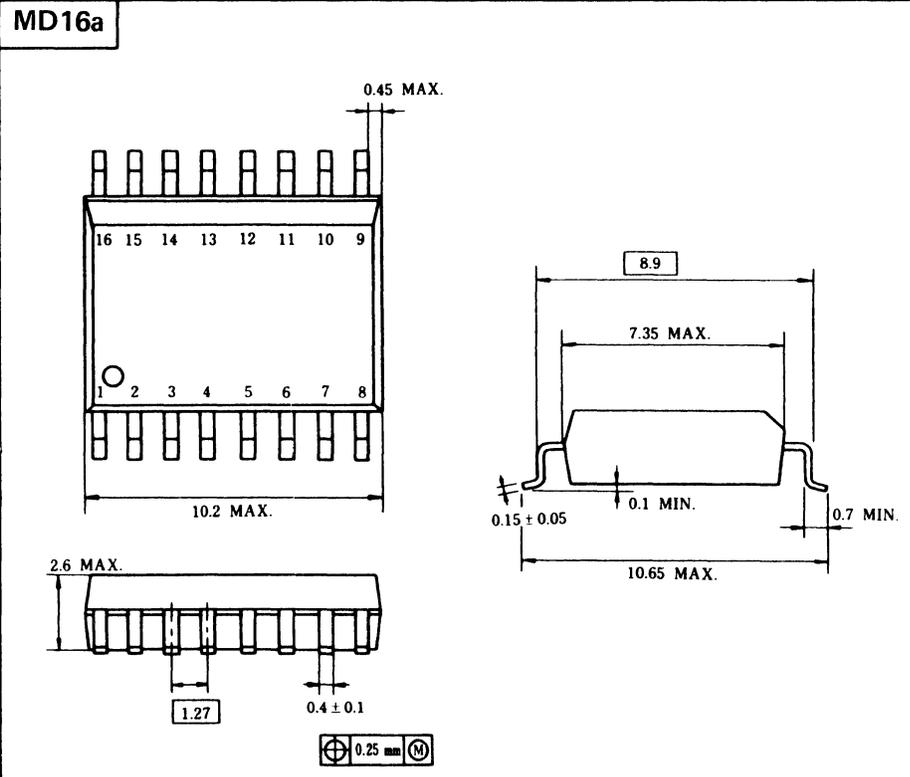
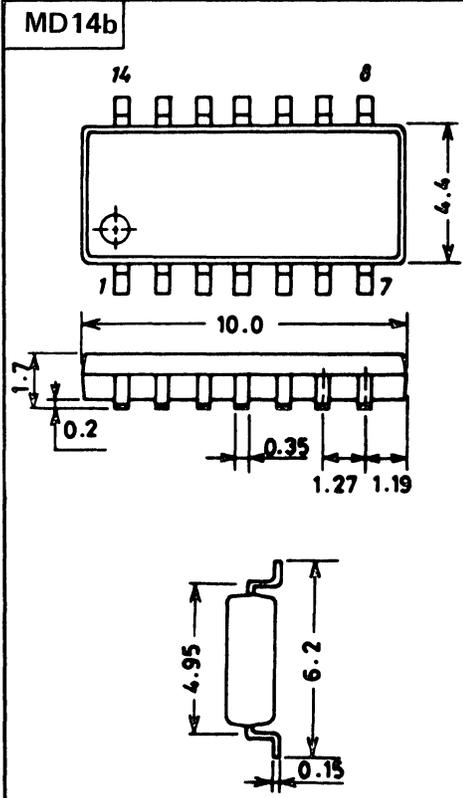
MD8a



MD8b



15. OUTLINE DRAWINGS



NOTE	AB	
	MIN.	MAX.
	.155 .020	.200 .050
	.014 .050	.020 .065
	.008 .745	.012 .770
8	.300 .240	.325 .260
3,4 3,4	.100 TP .300 TP	
	.125 .000	.150 .030
5 6	0° 15° 14	
7	.040 0 .075	
	.065	.090

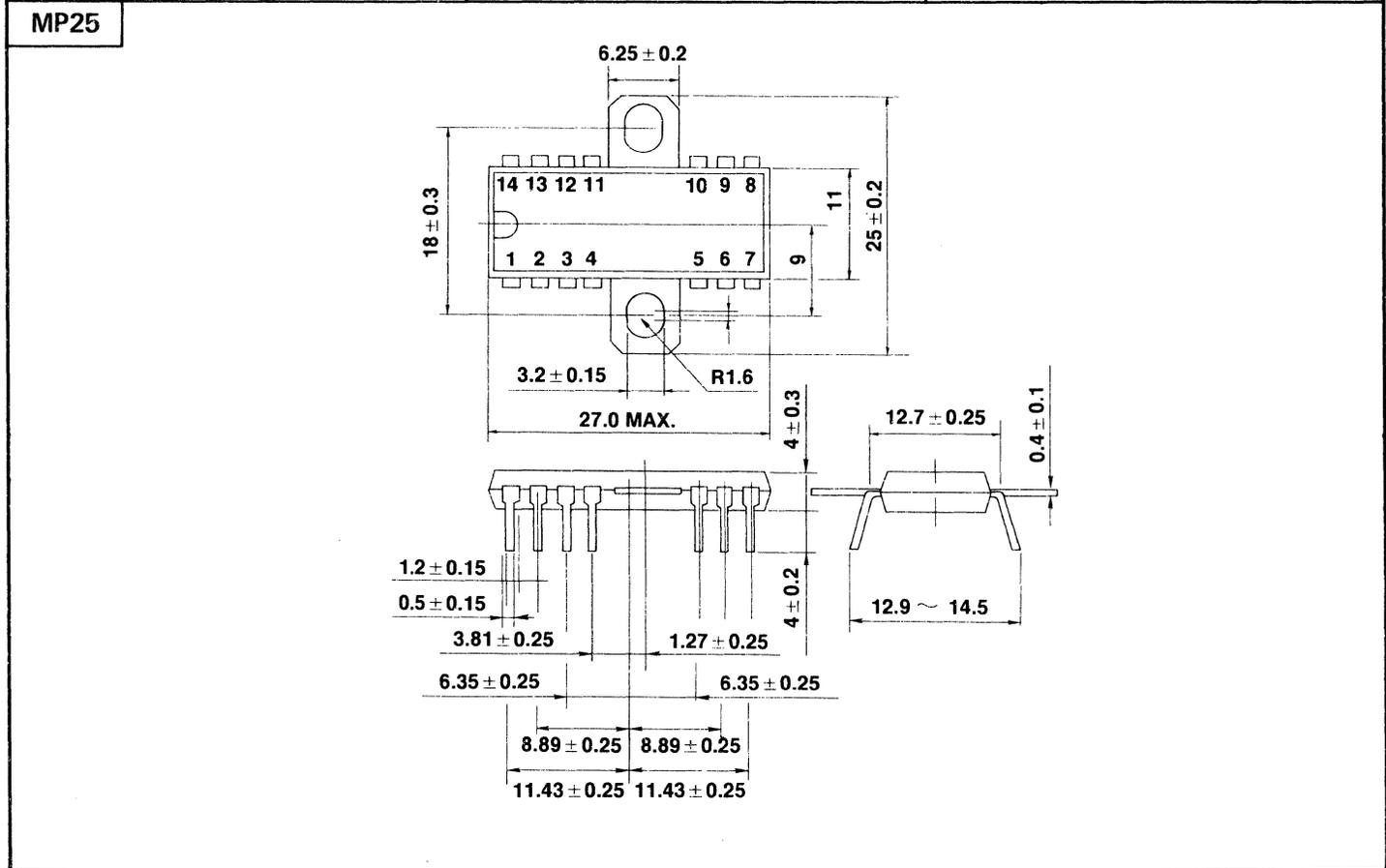
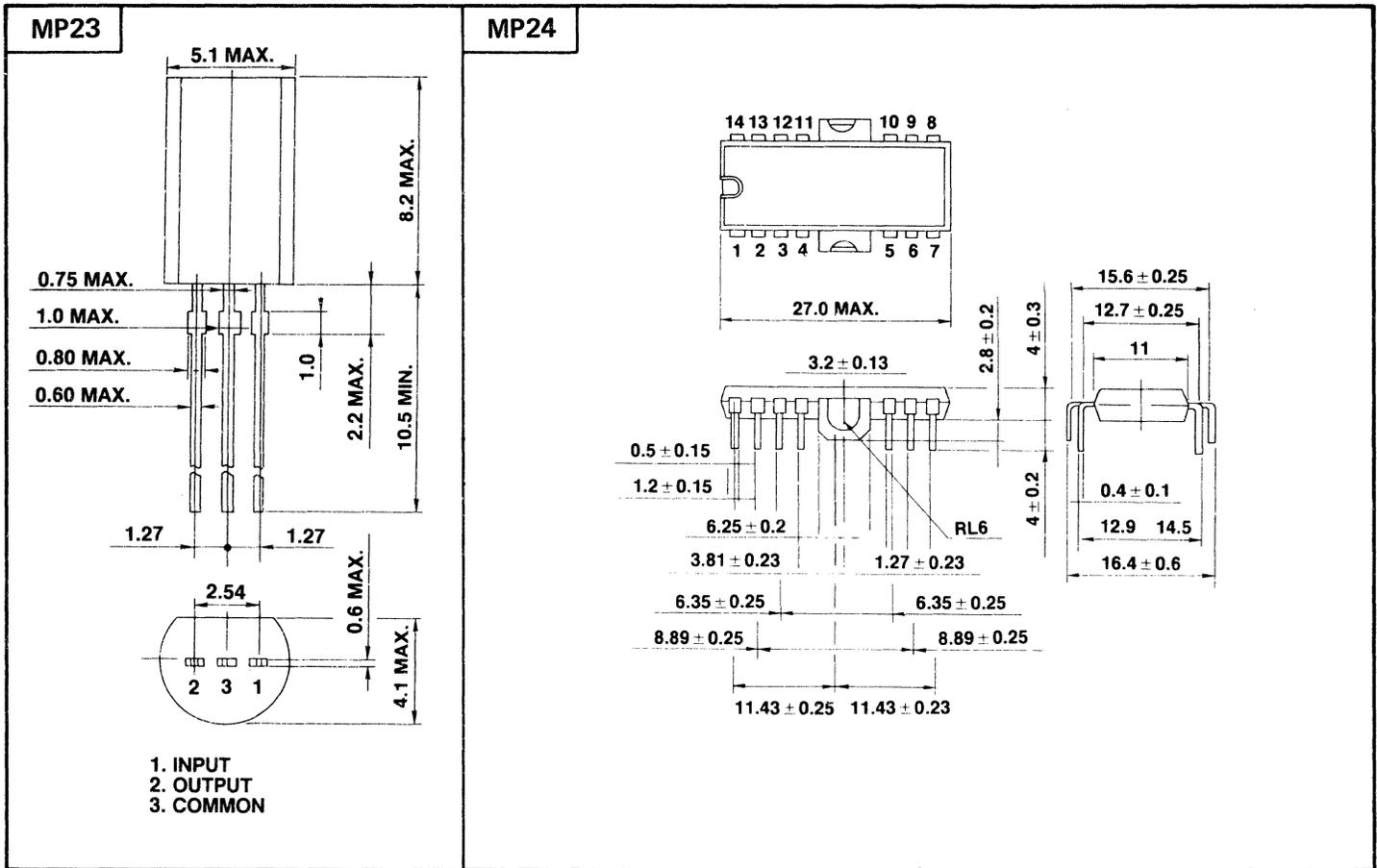
15. OUTLINE DRAWINGS

<p>MO002</p> <p>BASE PLANE SEATING PLANE lead location gauge plane</p> <p>INDEX CENTER LINE</p>	<p>MP1</p> <p>Active region</p>	<p>MP2</p> <p>Active region</p>
<p>MP3</p> <p>Active region</p> <p>Section A-B</p>	<p>MP4</p> <p>Active region</p>	<p>MP5</p> <p>Active region</p>
<p>MP6</p> <p>Active region</p>	<p>MP7</p> <p>Active region</p>	<p>MP8</p> <p>Active region</p>
<p>MP9</p> <p>Active region</p> <p>CuL Ø 0.15</p>	<p>MP10</p> <p>Active region</p> <p>CuL Ø 0.1</p>	<p>MP11</p> <p>Active region 2x5</p>

15. OUTLINE DRAWINGS

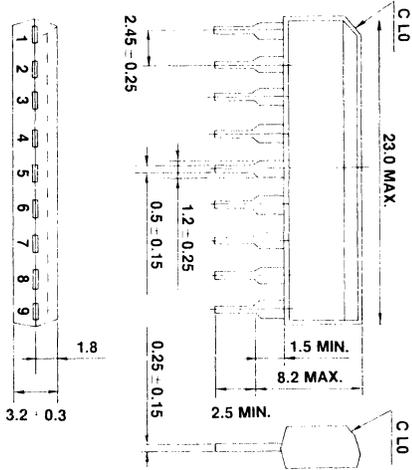
<p>MP12</p> <p>Brass tube Degussit carrier EL System</p> <p>30 78±1 2.5±0.05</p>	<p>MP13</p> <p>Plastic carrier Active region</p> <p>400 5.1±0.3 2.3±0.3 3.6±0.1 4.5</p>	<p>MP14</p> <p>Active region</p> <p>9 0.8±0.4 3 1.5 4.3±0.3 0.5±0.1</p>
<p>MP15</p> <p>0.7 1.4 4±0.1 21.5±0.6 8</p>	<p>MP16</p> <p>φ1.5 33 13 φ3</p>	<p>MP17</p> <p>0.2 3 Active region</p> <p>4.5±0.3 1.5 15±0.1 0.5±0.1 8±0.3 0.7</p>
<p>MP18</p> <p>Active region</p> <p>3.5 1.5 0.5±0.1 1±0.2 3 0.5±0.1 8</p>	<p>MP19</p> <p>2±0.1 1.5±0.1 1±0.05 0.4</p> <p>Active Zone / Active region</p> <p>φ3±0.1</p>	<p>MP20</p> <p>Active Zone / Active region</p> <p>0.4 φ3±0.1 2 x φ 0.1 CuI 100 0.7</p>
<p>MP21</p> <p>0.04 Cu-verzinkt / Cu-tinned</p> <p>0.6 φ3±0.1 7.5 12.1</p> <p>Active Zone / Active region</p>		<p>MP22</p> <p>Active Zone / Active region</p> <p>0.5±0.1 1.02 9±0.3 1.4 2.5 2±0.8 26</p>

15. OUTLINE DRAWINGS



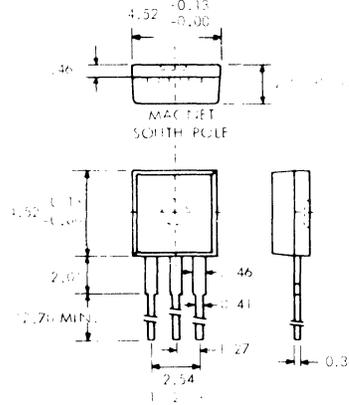
15. OUTLINE DRAWINGS

MP26

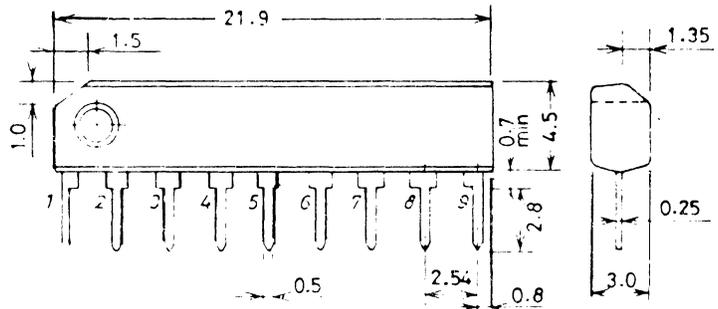


Lead pitch is 254 and tolerance is ± 0.23 against theoretical center of each lead that is obtained on the basis of No. 1 lead.

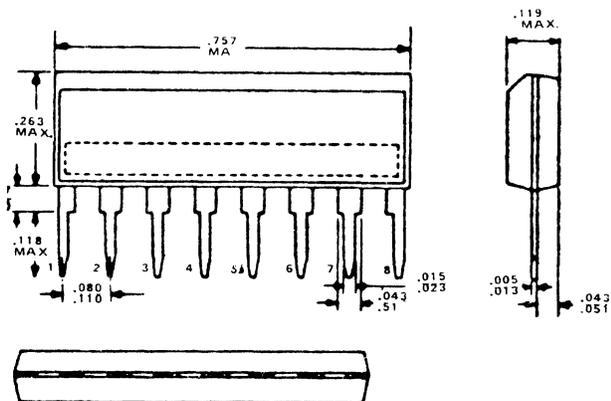
MS1



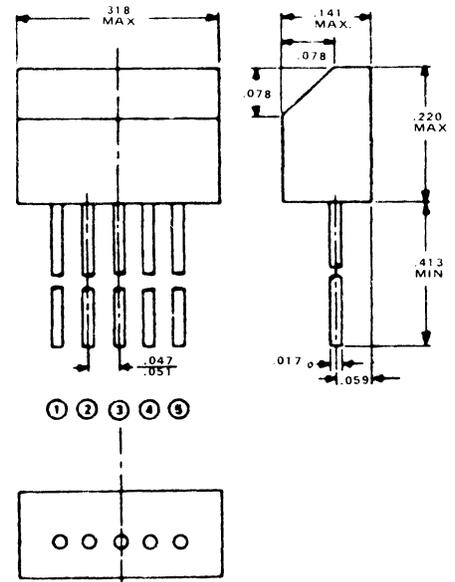
MS2



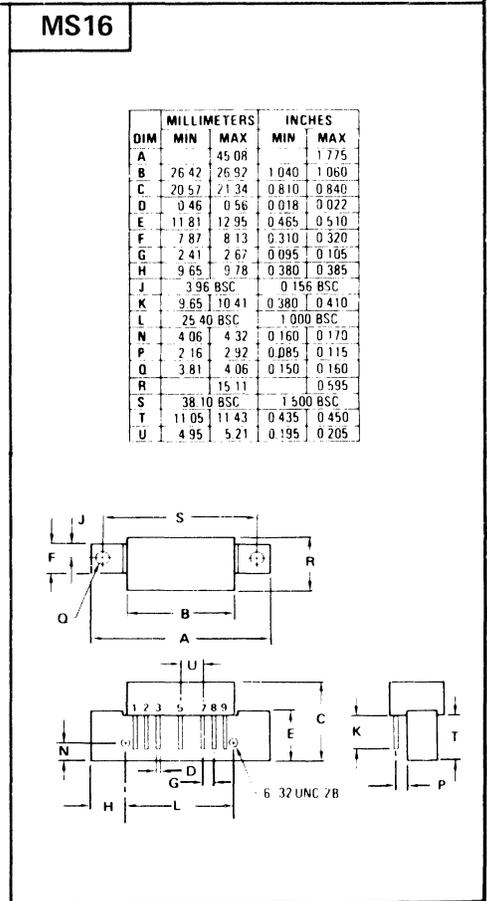
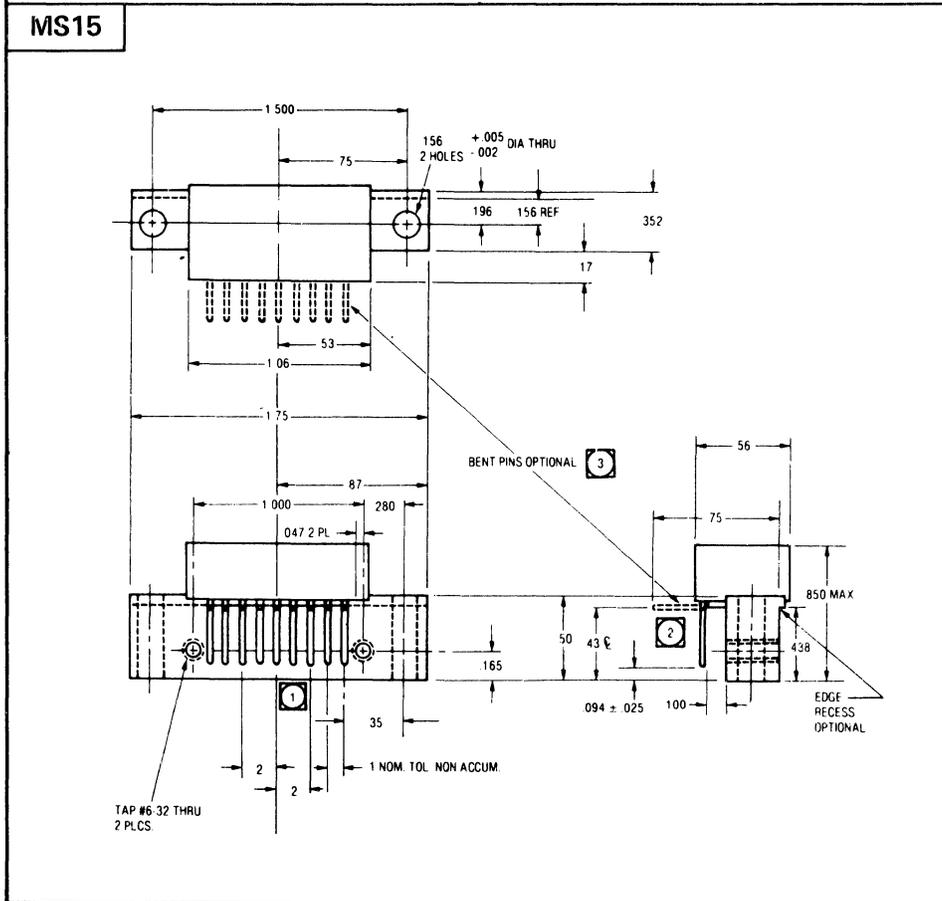
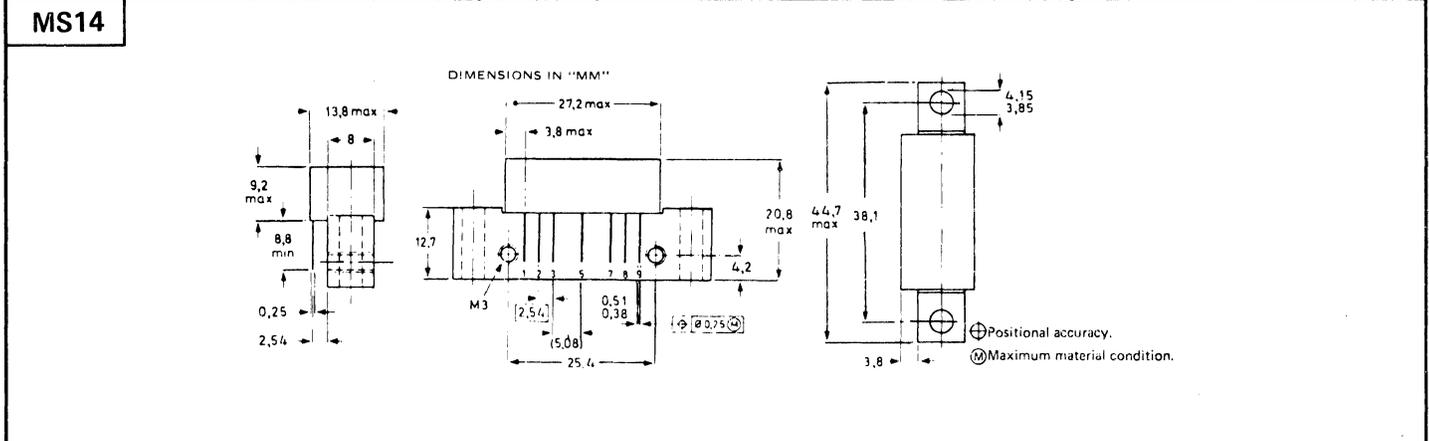
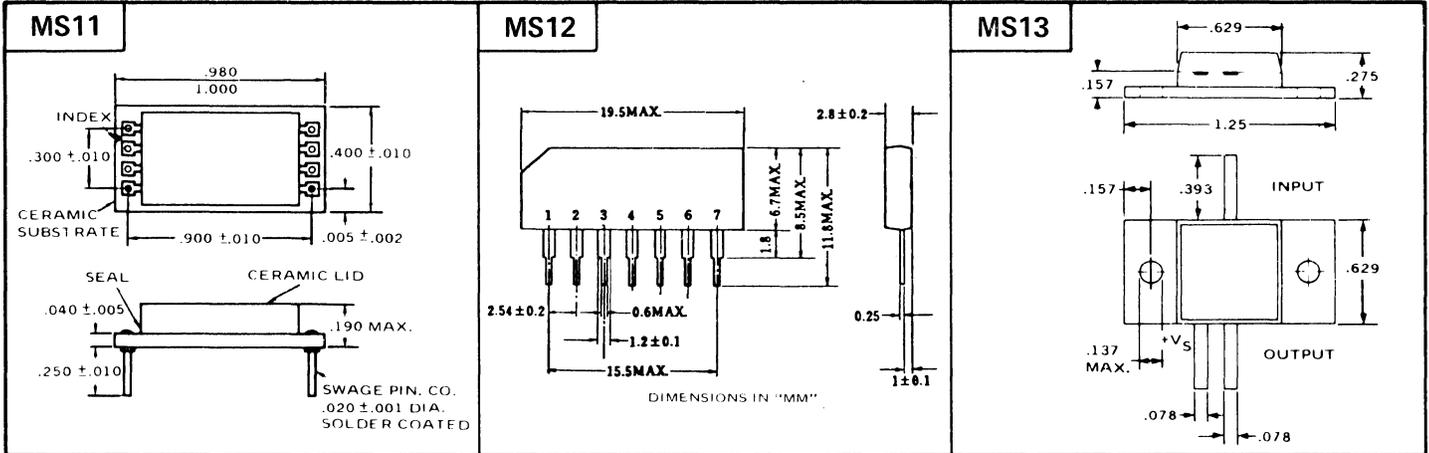
MS3



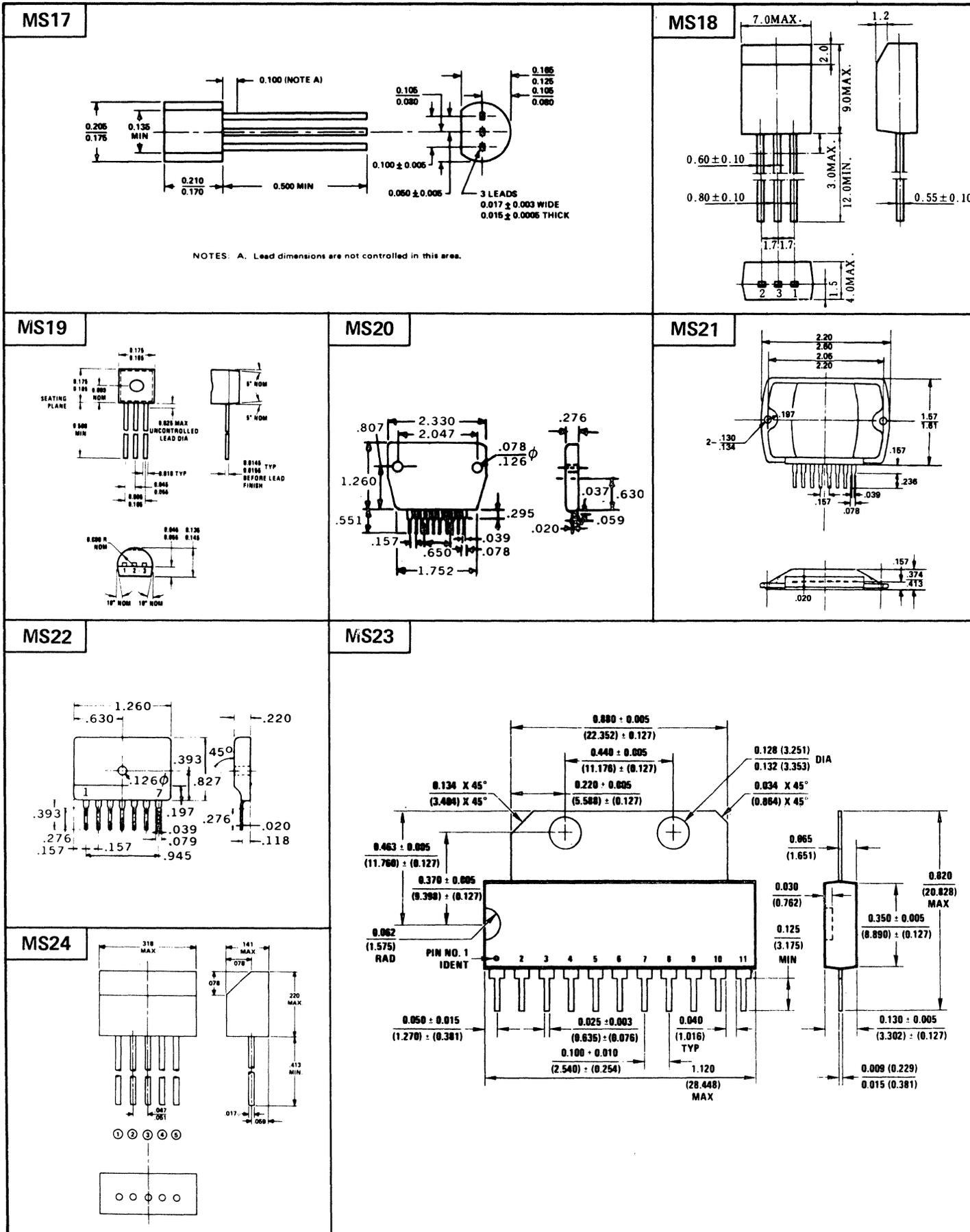
MS4



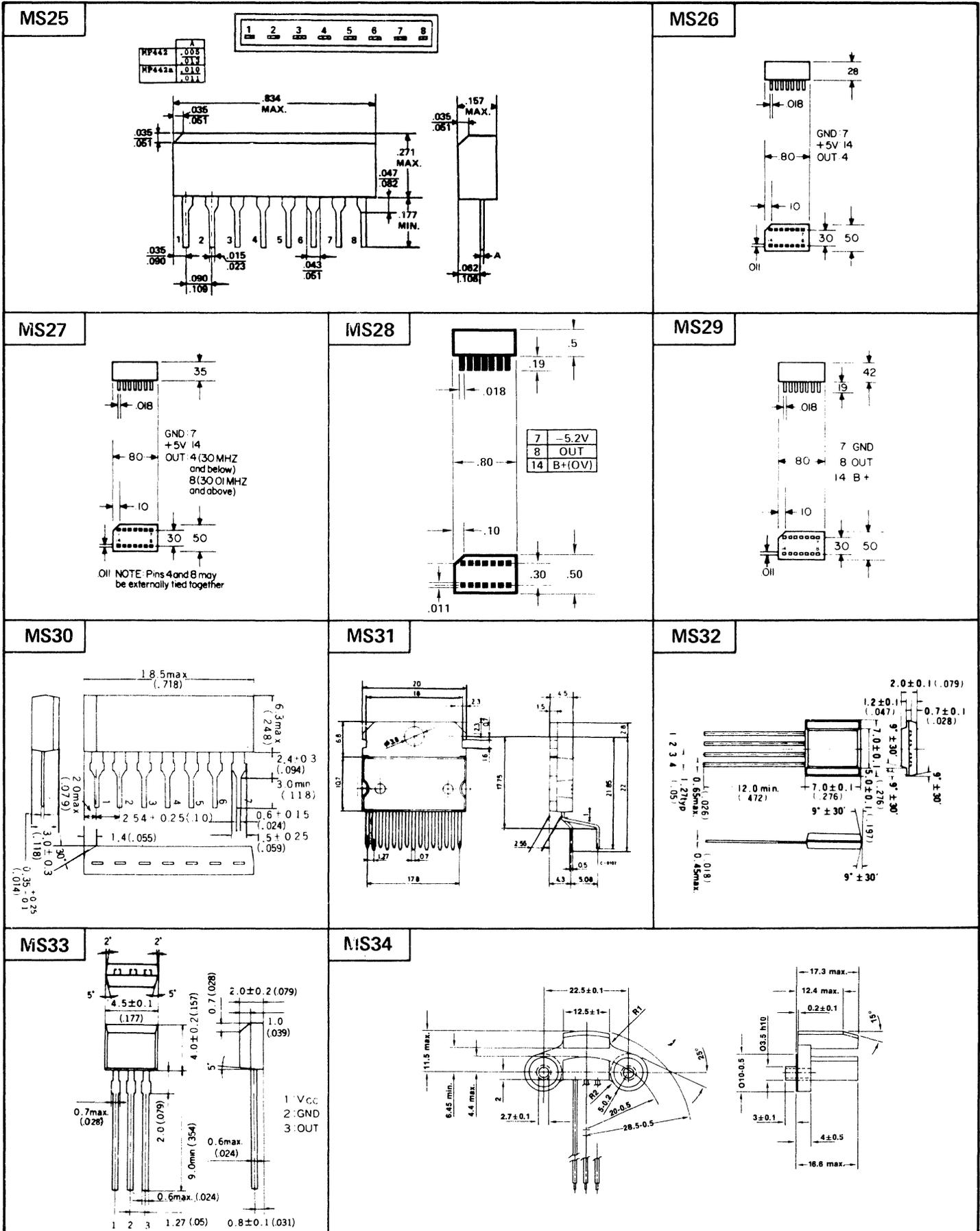
15. OUTLINE DRAWINGS



15. OUTLINE DRAWINGS

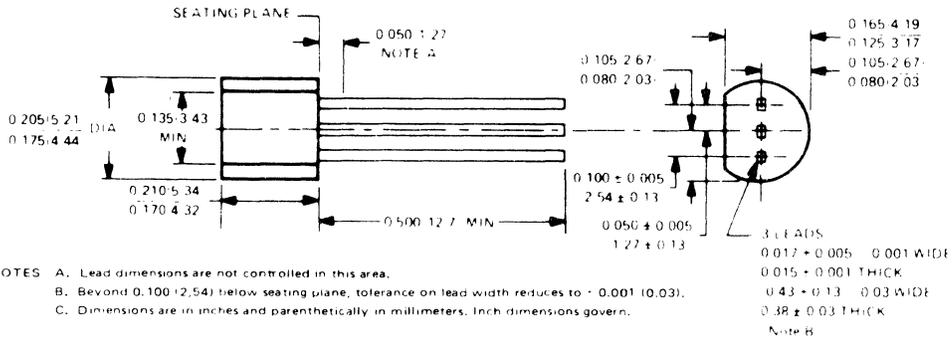


15. OUTLINE DRAWINGS

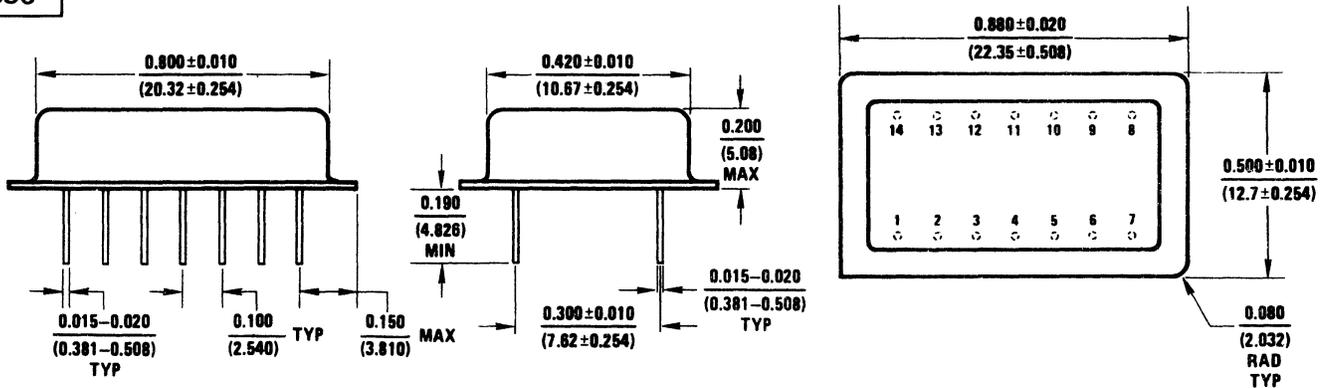


15. OUTLINE DRAWINGS

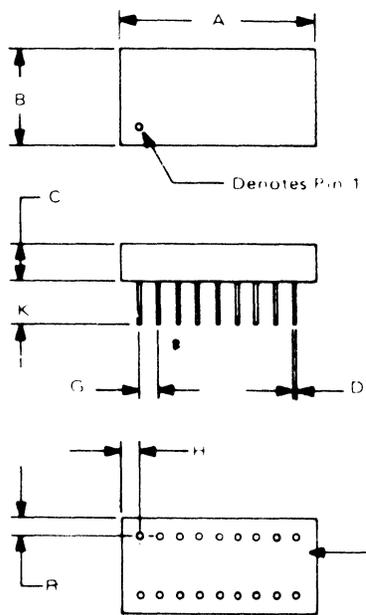
MS35



MS36



MS37



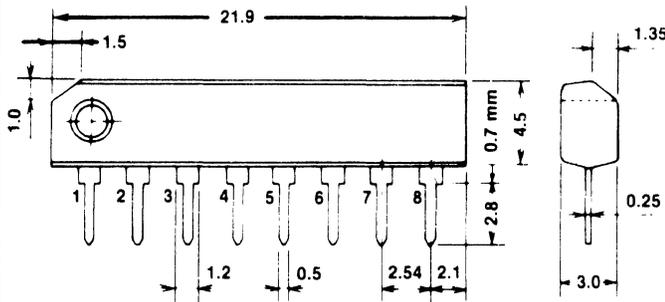
DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	990	1 010	25 15	25 65
B	490	510	12 45	12 95
C	190	0 235	4 83	5 97
D	018	021	0 46	0 53
G	100 BASIC		2 54 BASIC	
H	080	115	2 03	2 92
K	130	300	3 30	7 62
L	300 BASIC		7 62 BASIC	
R	080	115	2 03	2 92

NOTE
Leads in true position within
0.10 ± 0.255mm R at
seating plane

Pin numbers shown for
reference only
Numbers not marked
on package

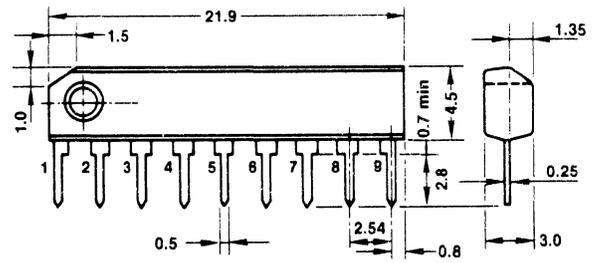
15. OUTLINE DRAWINGS

MS38



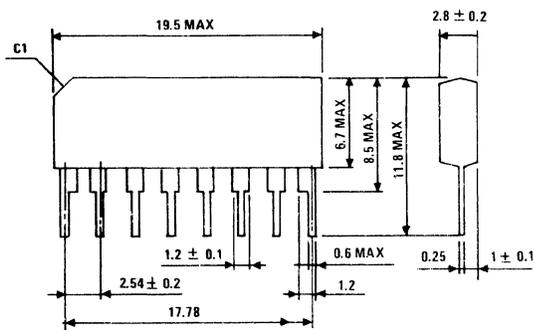
DIMENSIONS IN "MM"

MS39

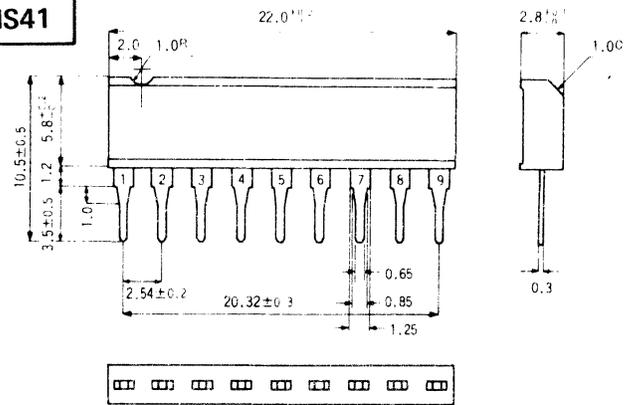


DIMENSIONS IN "MM"

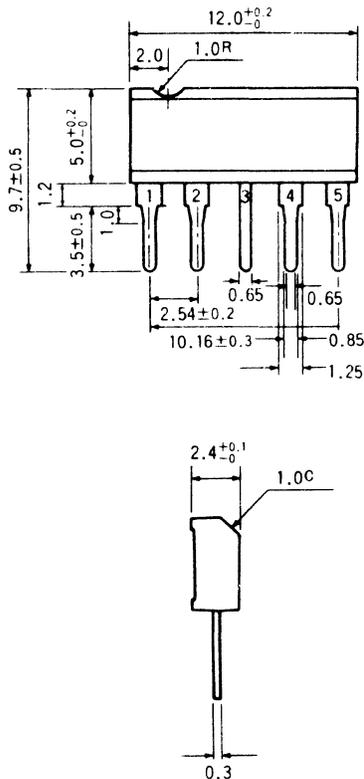
MS40



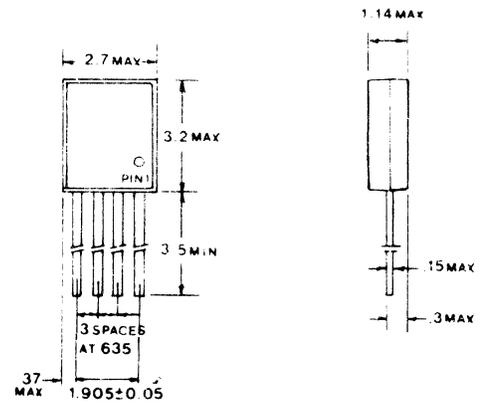
MS41



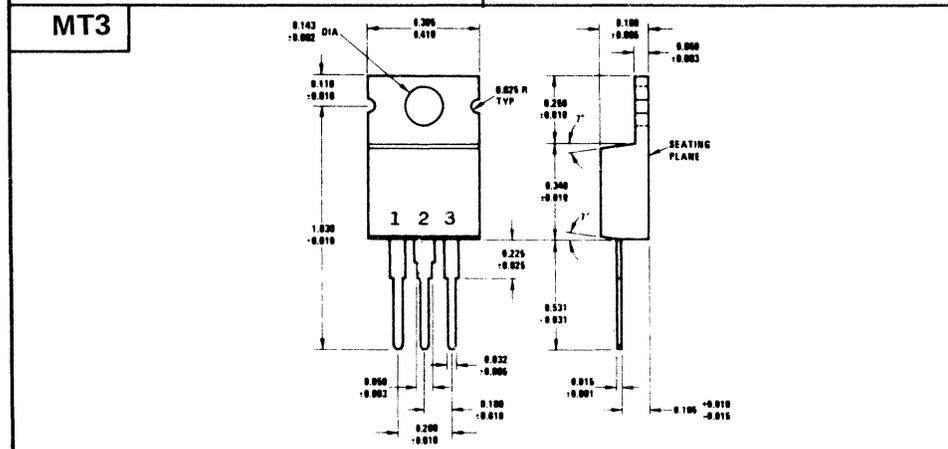
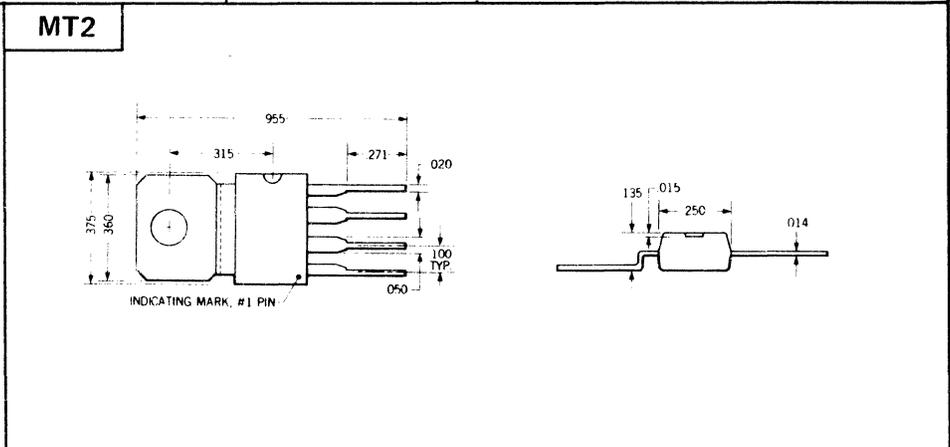
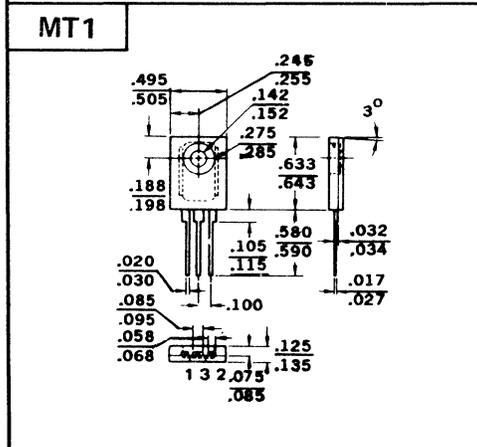
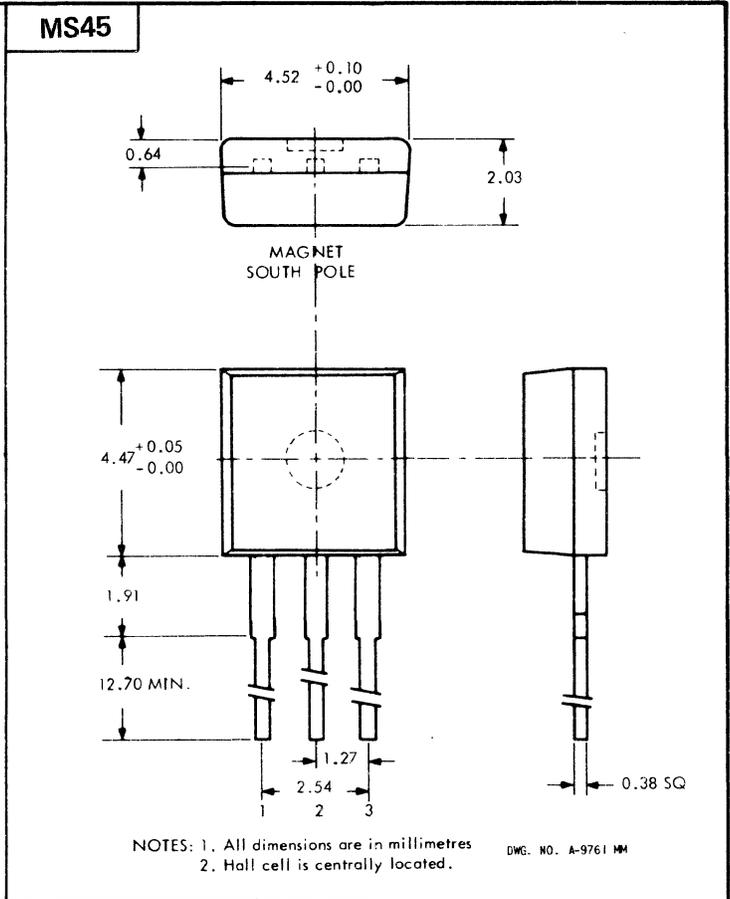
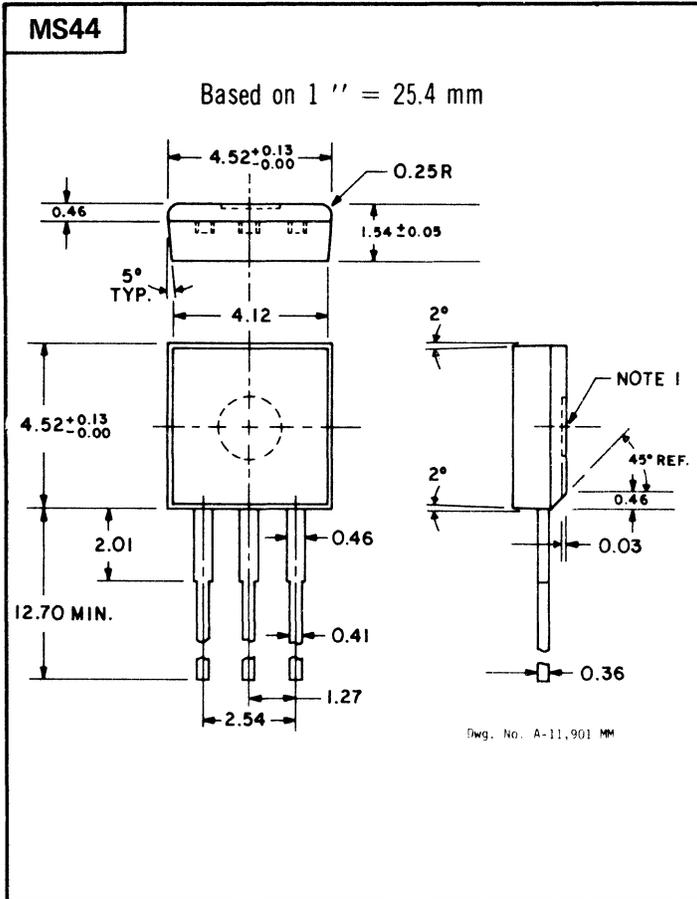
MS42



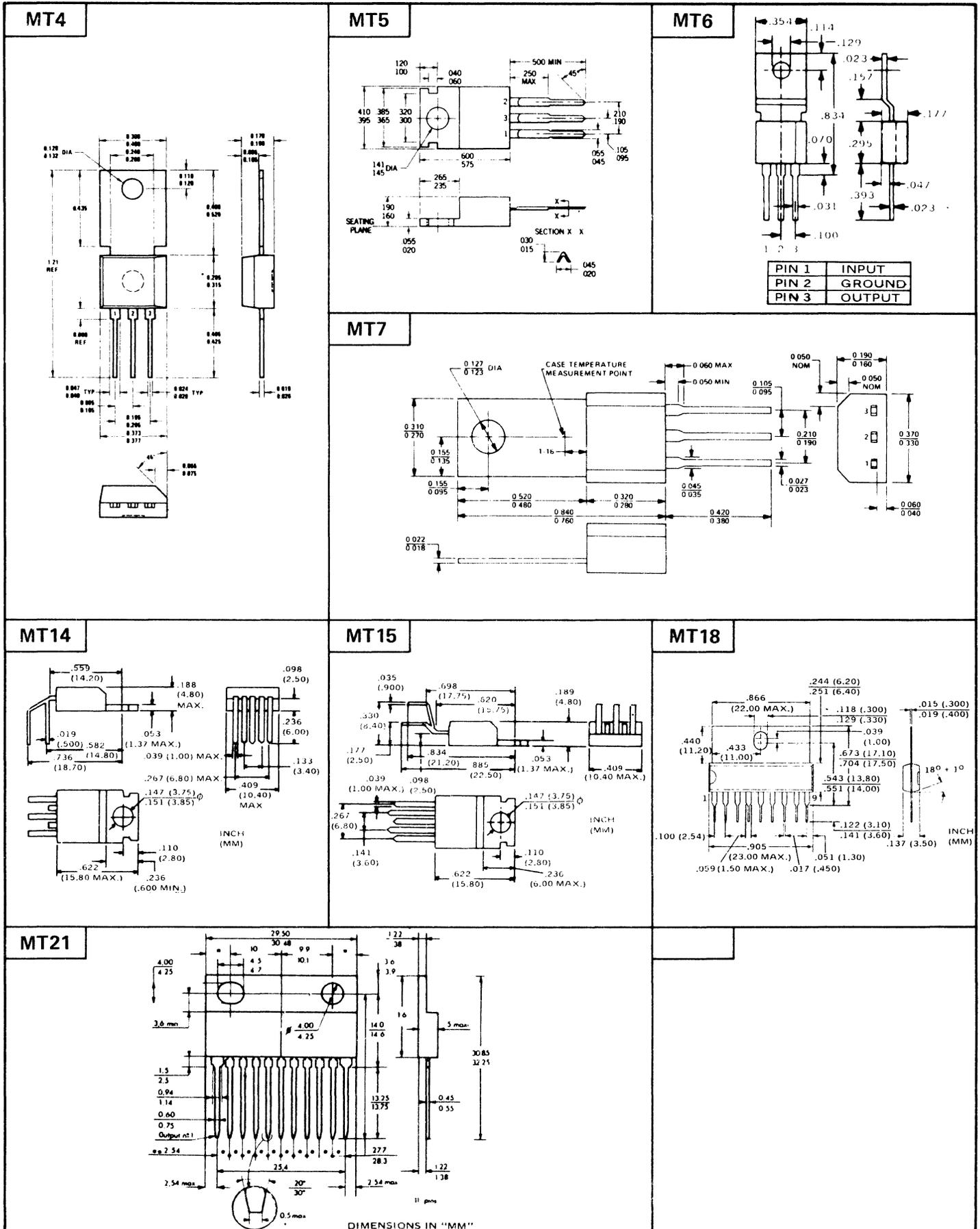
MS43



15. OUTLINE DRAWINGS

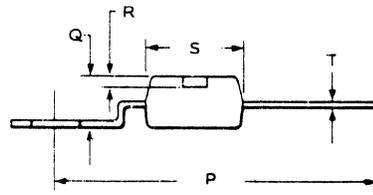
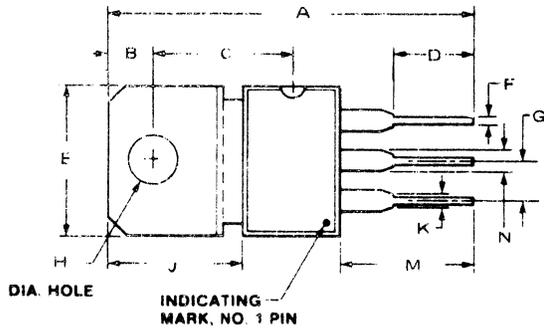


15. OUTLINE DRAWINGS



15. OUTLINE DRAWINGS

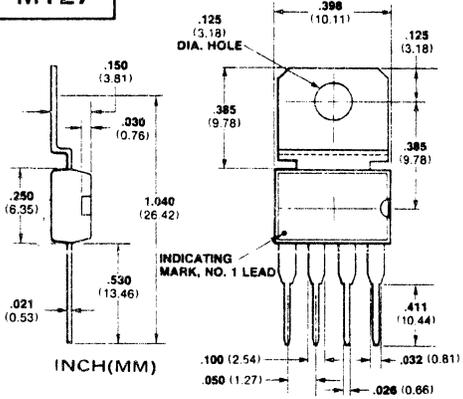
MT24



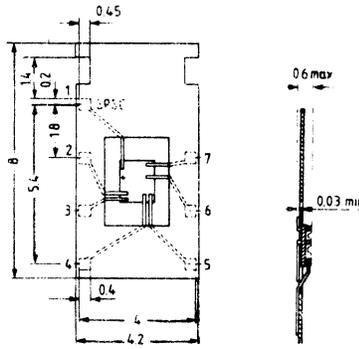
DIMENSIONS IN "MM"

	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R	S	T
MT24	29.5	3.18	9.78	10.4	10.1	.660	2.54	3.18	9.78	1.27	13.4	1.27	26.4	3.81	.760	6.35	3.80
MT24a	29.9	3.18	9.14	10.4	10.0	.660	2.54	3.18	9.14	.810	13.4	1.27	25.7	3.81	.760	6.35	3.80

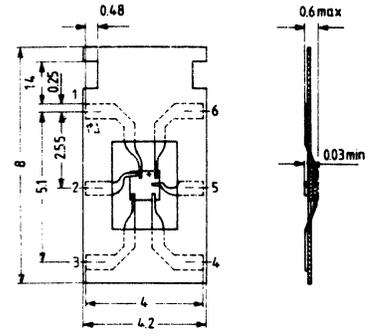
MT27



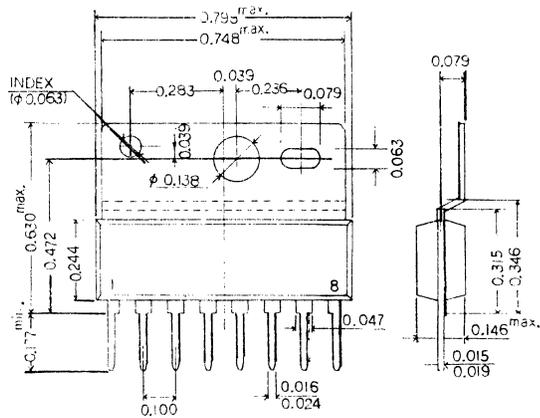
MT43



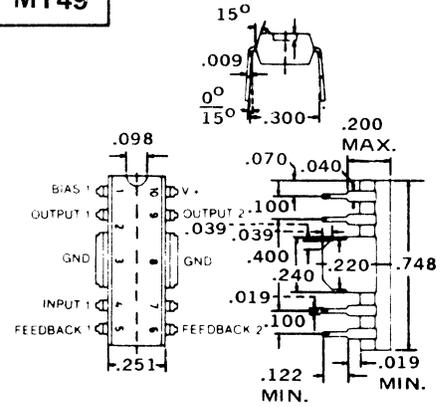
MT44



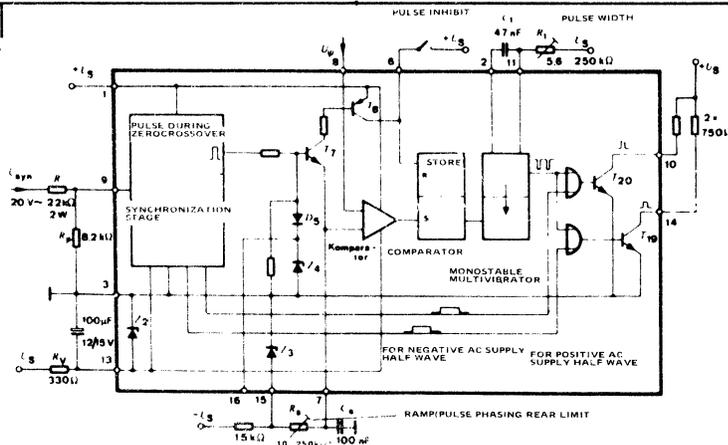
MT48



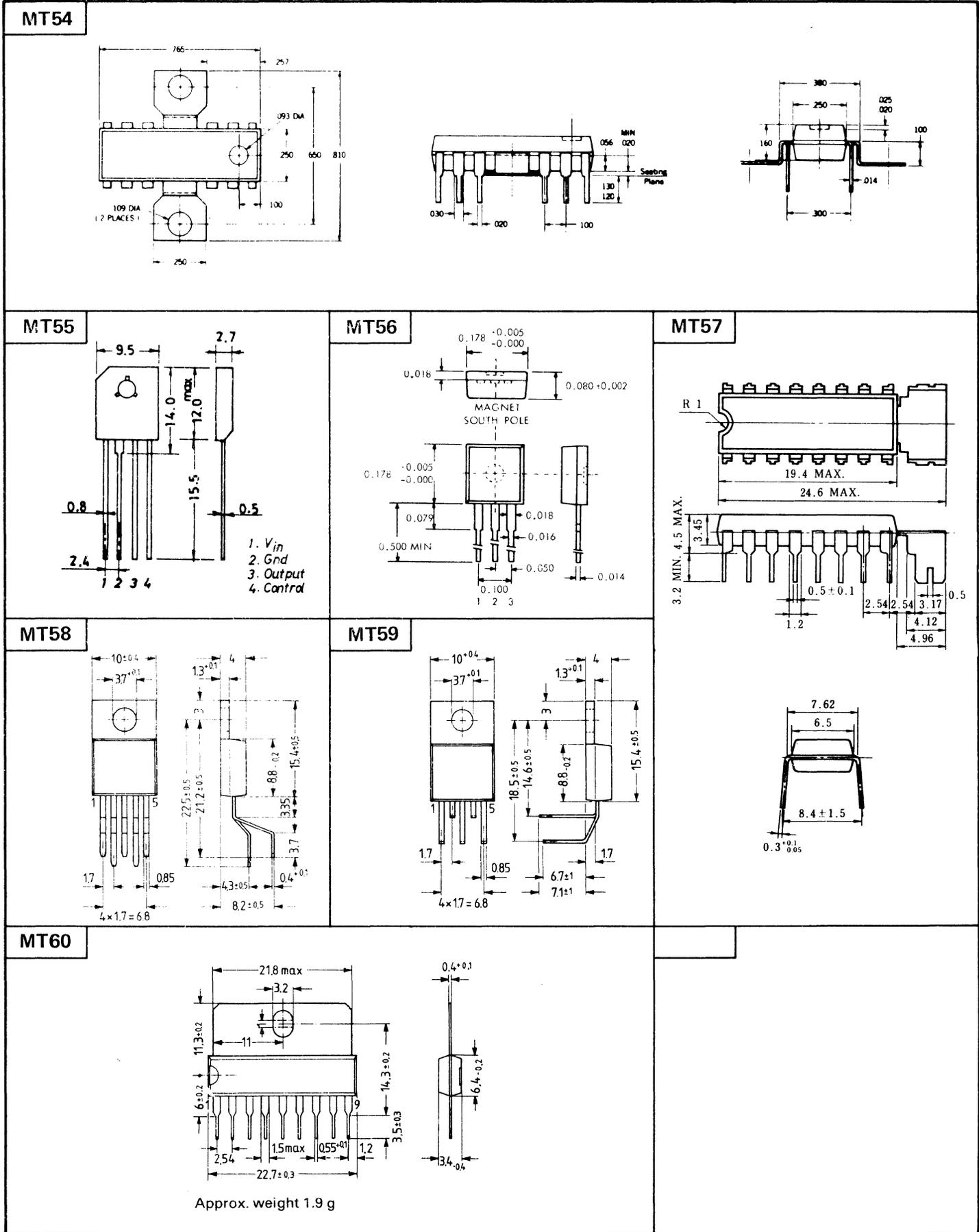
MT49



MT53

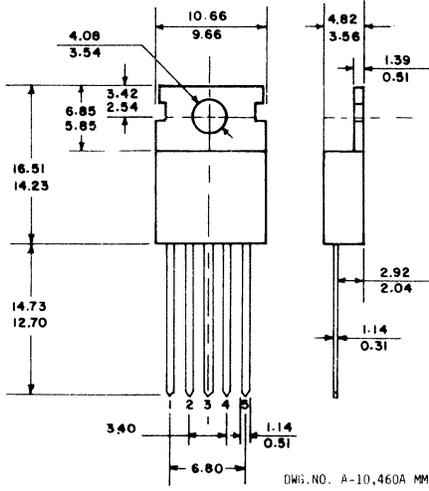


15. OUTLINE DRAWINGS

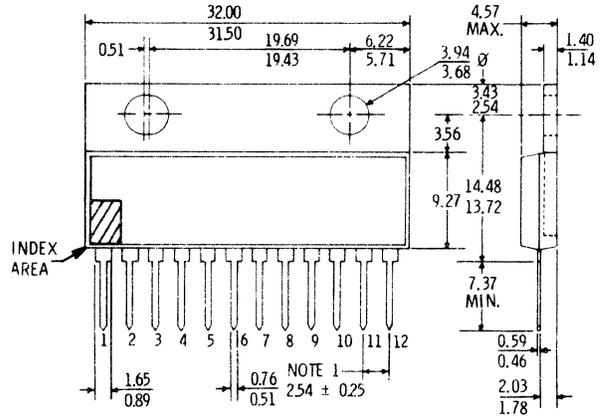


15. OUTLINE DRAWINGS

MT61



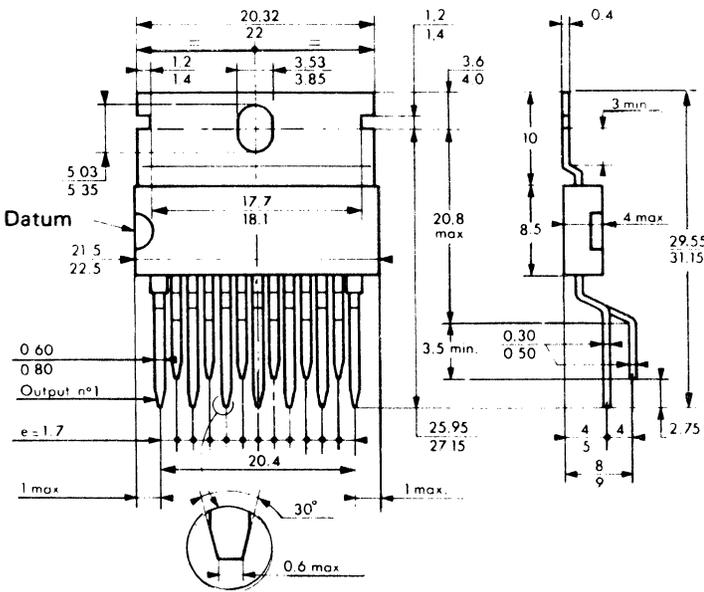
MT62



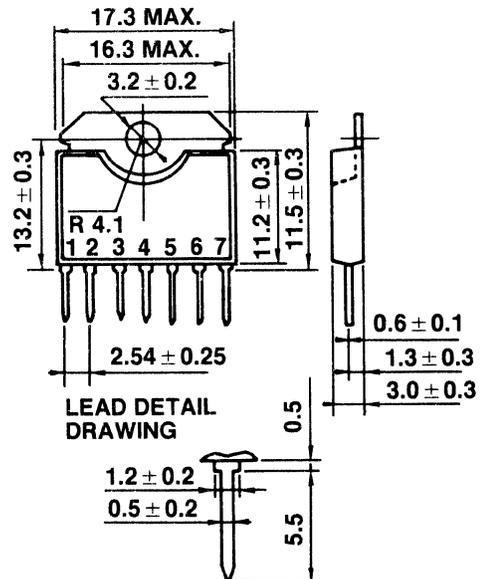
NOTES:

1. Lead spacing tolerance is non-cumulative.
2. Exact body and lead configuration at vendor's option within limits shown.

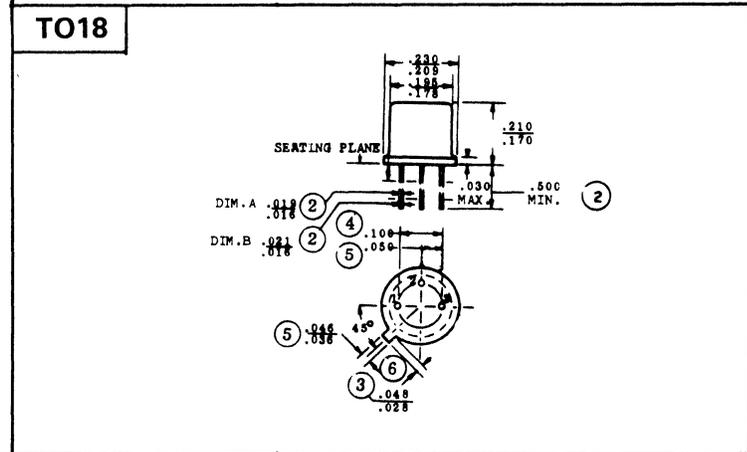
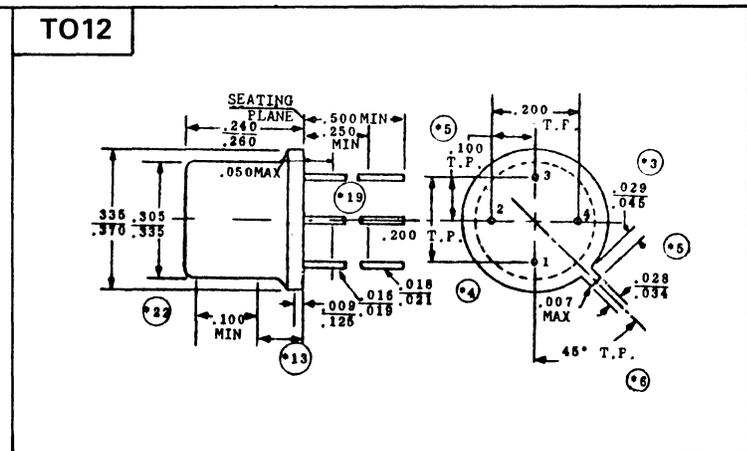
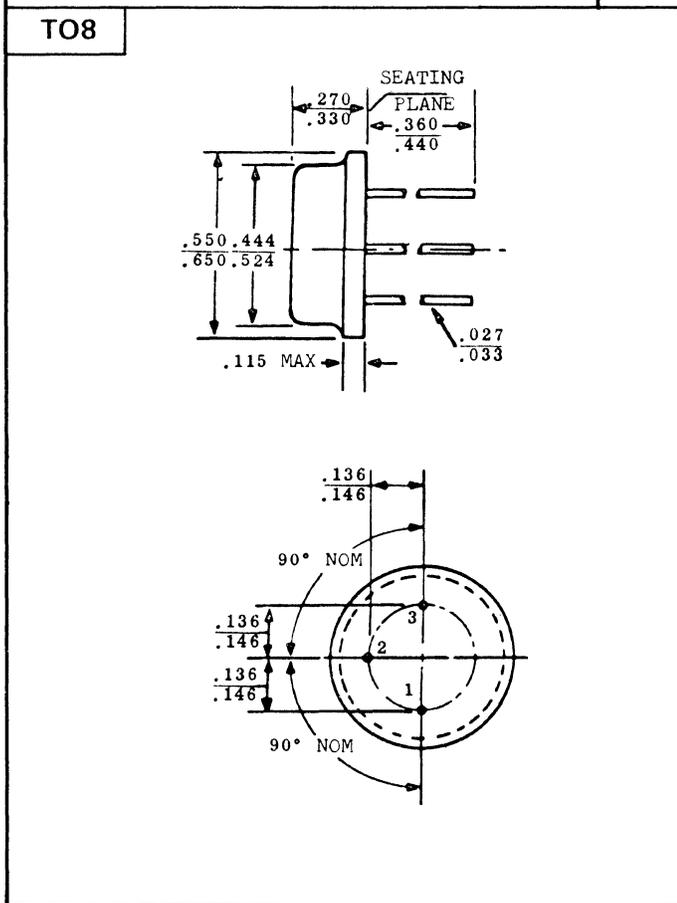
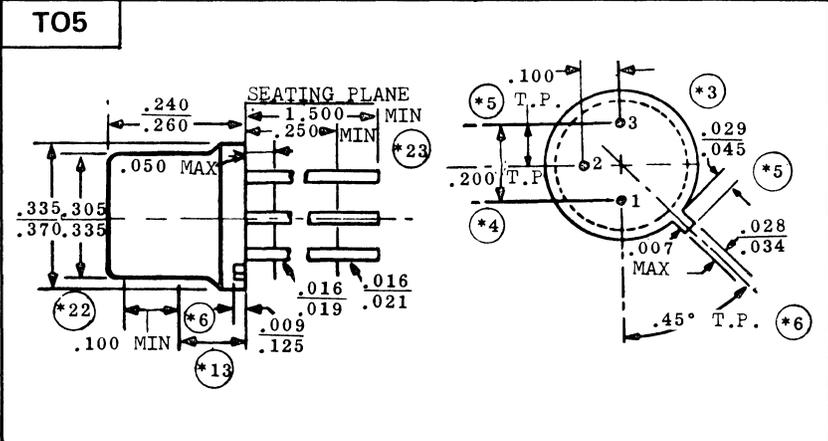
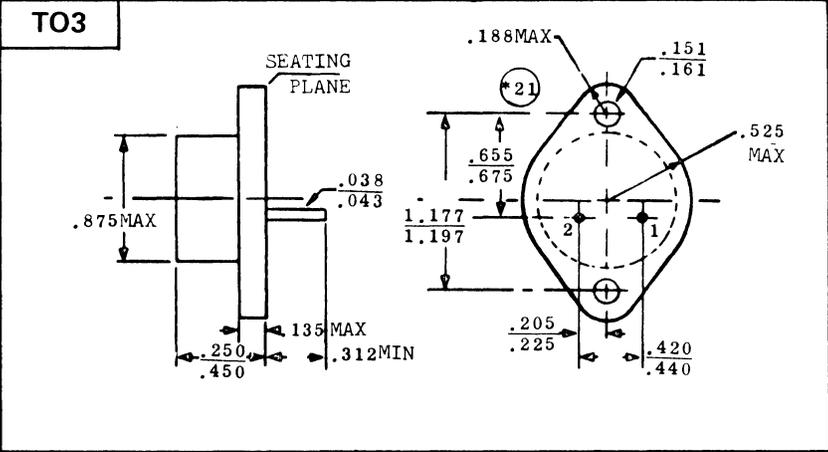
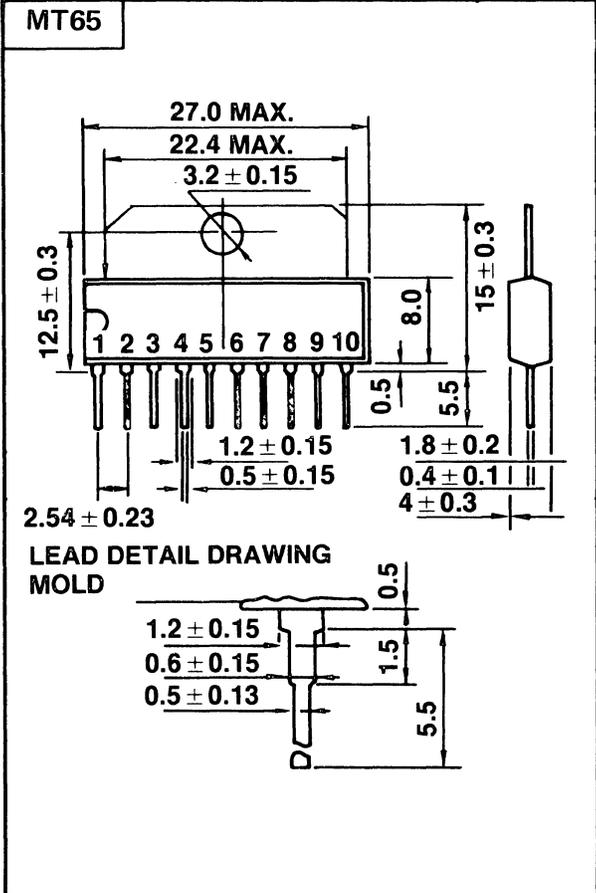
MT63



MT64

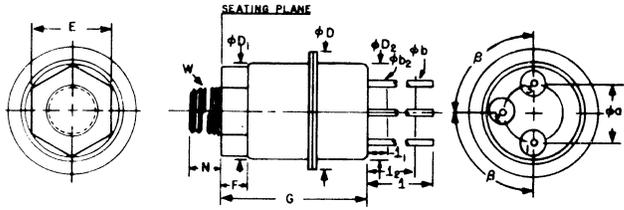


15. OUTLINE DRAWINGS



15. OUTLINE DRAWINGS

TO31



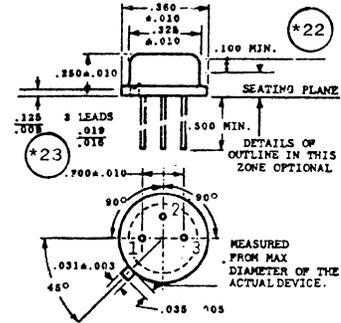
SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN.	MAX.	MIN.	MAX.	
A	.360	.390	9.14	9.91	
phi a	.200 NOMINAL		5.08 NOMINAL		
phi b		.021		.533	1
phi b2	.016	.019	.406	.483	1
phi D	.360	.370	9.14	9.40	
phi D1	.295	.305	7.49	7.75	
phi D2	.290	.310	7.37	7.87	
E	.250		6.35		2
F	.105	.115	2.67	2.92	
l	1.500	1.688	38.10	42.88	
l1		.050		1.27	
l2	.250		6.35		
N	.375 NOMINAL		9.53 NOMINAL		
W					3
beta	90° NOMINAL				

NOTES:

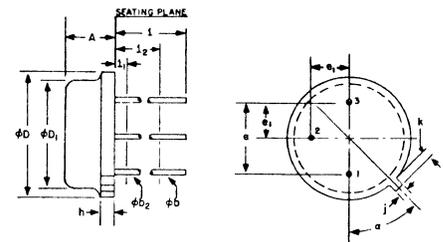
- (THREE LEADS) phi b2 APPLIES BETWEEN l1 AND l2. phi b APPLIES BETWEEN l2 AND 1.5" (38.10 MM) FROM SEATING PLANE. DIAMETER IS UNCONTROLLED IN l1 AND BEYOND 1.5" (38.10 MM) FROM SEATING PLANE.
- HEX FOR STANDARD 1/4" IGNITION WRENCH.
- 8-32 UNC-2A.

THIS OUTLINE DOES NOT MEET THE MINIMUM CRITERIA ESTABLISHED BY JS-10 FOR REGISTRATION.

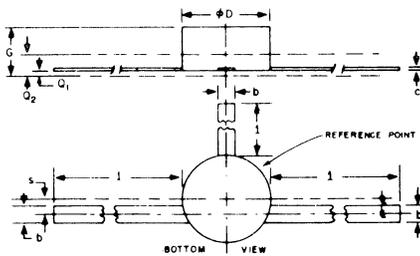
TO39



TO46



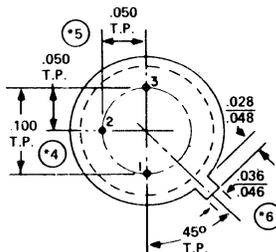
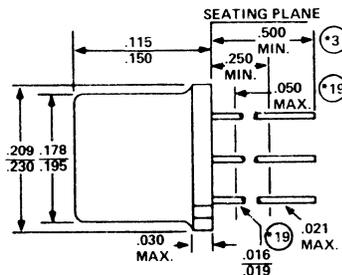
TO51



SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN.	MAX.	MIN.	MAX.	
b	.015	.028	.381	.711	
c	.003	.005	.076	.127	
phi D	.140	.165	3.56	4.19	2
G	.040	.060	1.02	1.52	
l	.250		6.35		
Q1		.010		.254	1
Q2		.025		.635	1
s	.015	.035	.381	.889	1

LEADS SHALL EMERGE FROM THE phi D DIMENSION WITHIN THE L.DIMITS INDICATED BY THE s, Q1, AND Q2 DIMENSIONS.
MINIMUM AND MAXIMUM DIMENSIONS BOTH APPLY TO THE MAJOR (LARGEST) DIAMETER ONLY.

TO52



SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN.	MAX.	MIN.	MAX.	
A	.065	.085	1.65	2.16	
phi b	.016	.021	.406	.533	1
phi b2	.012	.019	.305	.483	1
phi D	.209	.230	5.31	5.84	
phi D1	.178	.195	4.52	4.95	
e	.100 T.P.		2.54 T.P.		2
e1	.050 T.P.		1.27 T.P.		2
h	.036	.040	.914	1.02	
j	.028	.048	.711	1.22	4
k	.500		12.70		1
l1		.050		1.27	1
l2	.250		6.35		1
a	45° T.P.		45° T.P.		3, 5

15. OUTLINE DRAWINGS

TO66

TO71

TO72

TO74

TO77

TO78

TO86

TO91

TO92

TO96

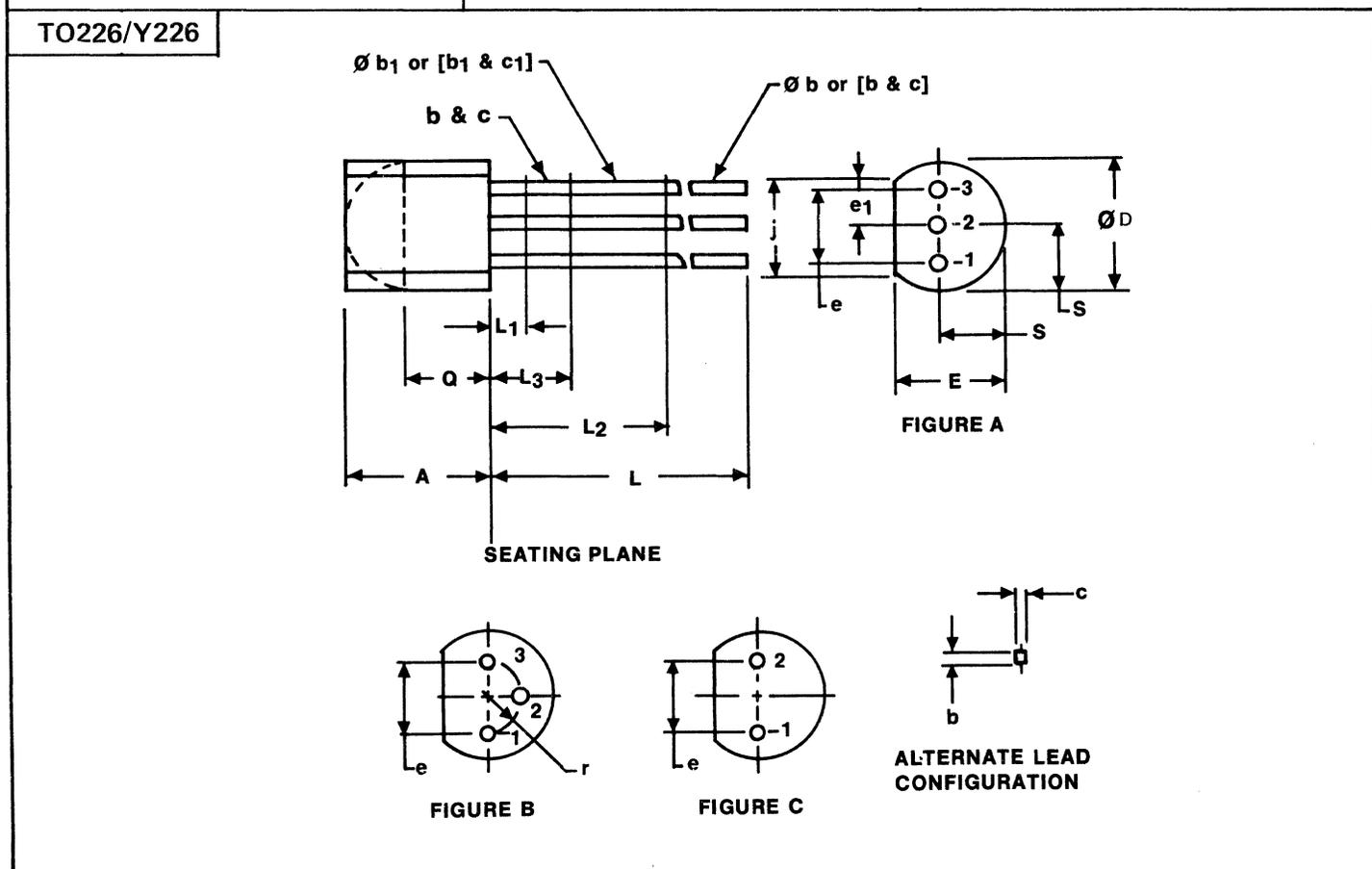
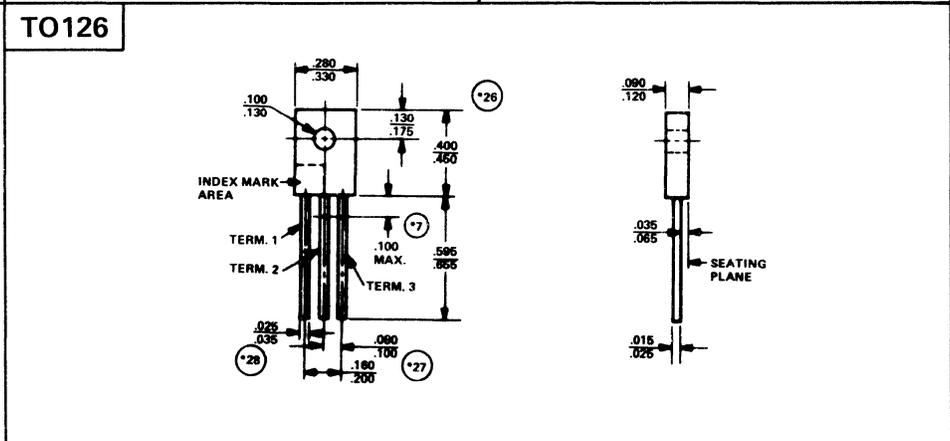
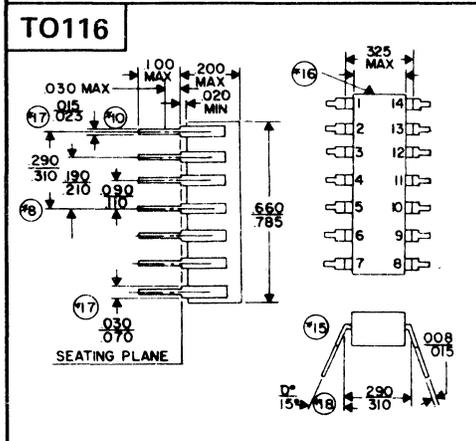
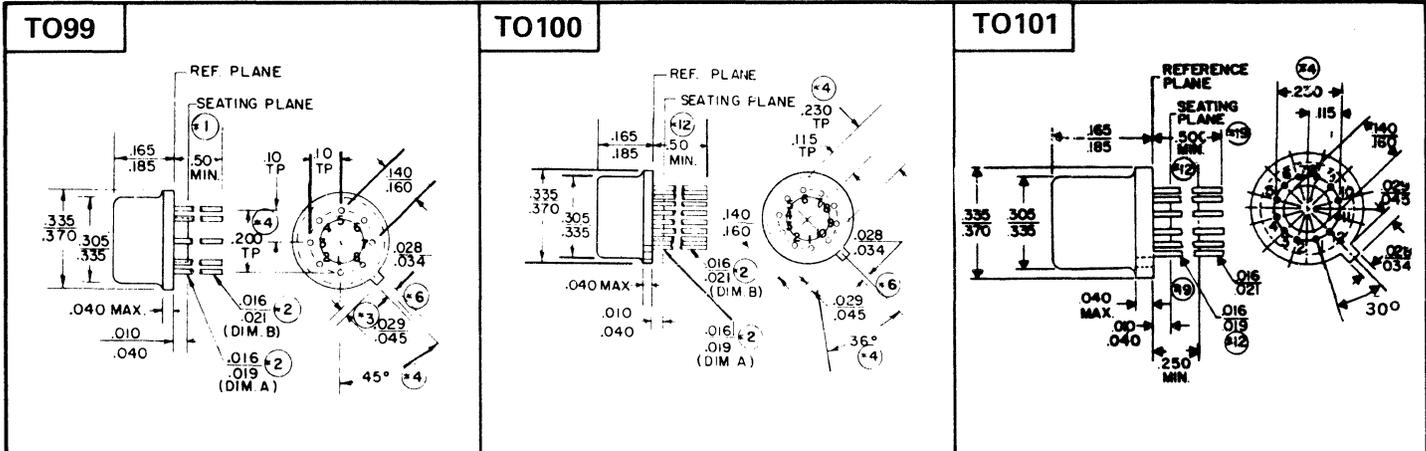
SYMBOL	INCHES		MILLIMETERS		NOTES
	MIN	MAX	MIN	MAX	
A	.170	.210	4.58	5.33	
Z0	.016	.021	.407	.533	*19
Z02	.016	.019	.407	.482	*19
Z0D	.175	.205	4.96	5.20	
E	.125	.165	3.94	4.19	
e	.095	.105	2.42	2.66	
e1	.045	.055	1.15	1.39	
f	.135		3.43		
f	.500		12.70		*19
L1		.050		1.27	*19
L2	.250		6.35		*19
Q	.115		2.93		*29
S	.080	.105	2.42	2.66	

351

D.A.T.A.

351

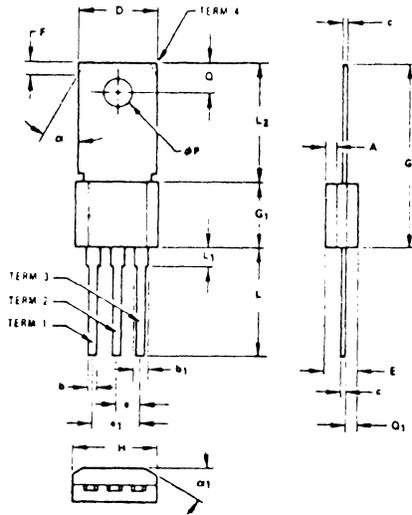
15. OUTLINE DRAWINGS



15. OUTLINE DRAWINGS

Y202/TO202

NOTES:

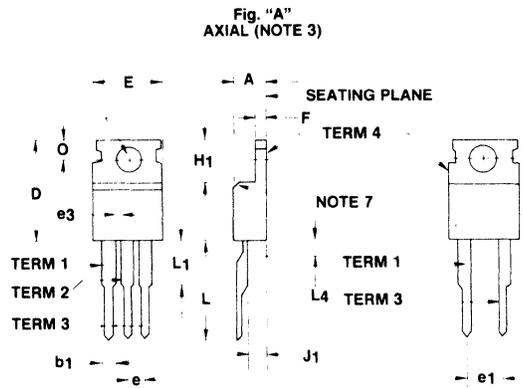
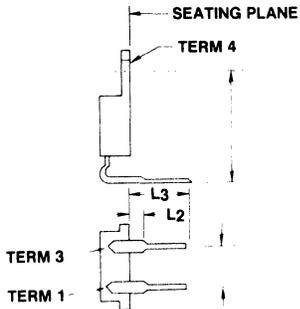
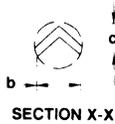


1. REFER TO APPLICABLE SYMBOL LIST.
2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5-1973.
3. CONTOUR OPTIONAL WITHIN DIMENSIONS SPECIFIED.
4. LEAD DIMENSIONS UNCONTROLLED IN THIS ZONE TO ALLOW FOR BODY AND LEAD IRREGULARITIES.
5. CONTROLLING DIMENSIONS: INCH.

SYMBOL	VARIATIONS (ALL DIMENSIONS SHOWN IN INCHES)								
	TO202AA/Y202a		NOTE	TO202AB/Y202b		NOTE	TO202AC/Y202c		NOTE
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.	
A	-	-		-	.060	3	-	.062	3
b	.045	.055		.023	.031		.023	.029	
b ₁	-	-		.035	.055	3	.065	.080	
c	.010	.026		.018	.026		.019	.026	
D	.360	.410		.270	.410		.390	.410	
E	.120	.190		.130	.190		.173	.183	
e	.095	.105		.095	.105		.095	.105	
e ₁	.190	.210		.190	.210		.190	.210	
F	-	-		-	.070	3	-	.060	3
G	-	-		.760	.840		.860	.880	
G ₁	.280	.320		.230	.320		.310	.360	
H	-	-		.330	.420		.390	.400	
L	.372	.520		.380	.450		.480	.510	
L ₁	-	.100	4	.050	.100	3,4	.067	.077	4
L ₂	.480	.520		-	-		-	-	
∅P	.123	.132		.123	.132		.140	.150	
Q	.095	.155		.115	.135		.140	.160	
Q ₁	.039	.076		.039	.070		.042	.069	
α	-	-		-	30°	3	-	-	
α ₁	-	-		-	50°	3	-	50°	3
NOTE	1, 2, 5			1, 2, 5			1, 2, 5		

15. OUTLINE DRAWINGS

Y220/TO220



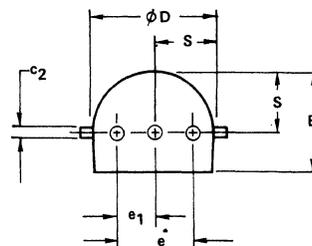
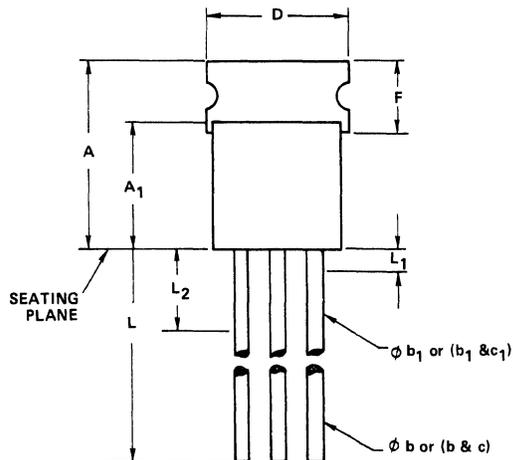
- NOTES:
1. REFER TO APPLICABLE SYMBOL LIST.
 2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5-1973.
 3. FIGURE "A" AXIAL TERMINAL CONFIGURATION, APPLICABLE.
 4. FIGURE "B" PERIPHERAL TERMINAL CONFIGURATION, APPLICABLE.
 5. ALTERNATE TERMINAL CONFIGURATIONS ALLOWED WITHIN b and c .
 6. TAB CONTOUR OPTIONAL WITHIN H_1 AND E .
 7. CHAMFER OPTIONAL.
 8. POSITION OF TERMINAL TO BE MEASURED 1.27-1.40 BELOW SEATING PLANE.
 9. POSITION OF TERMINAL TO BE MEASURED 6.35-6.48 FROM BOTTOM OF DIMENSION D .
 10. CONTROLLING DIMENSION: INCH.
 11. LEADS SHALL BE IN TRUE POSITION WITHIN .38 DIAMETER, MEASURED 5.21-6.48 FROM BOTTOM OF DIMENSION D .
 12. FIGURE "C" PERIPHERAL TERMINAL CONFIGURATION APPLICABLE.
 13. MOLD FLASH ALLOWED WITHIN L_4 .
 14. CONTROLLING DIMENSION: MILLIMETERS.

SYMBOL	VARIATIONS (ALL DIMENSIONS SHOWN IN MILLIMETERS)									
	A		NOTE	B		NOTE	C		NOTE	
	MIN.	MAX.		MIN.	MAX.		MIN.	MAX.		
A	3.58	4.82		3.56	4.82		3.56	4.82		
b ₁	1.15	1.77		1.15	1.77		.99	1.40		
b	.51	1.14	5	.51	1.14	5	.51	1.14	5	
c	.31	1.14	5	.31	1.14	5	.31	1.14	5	
D	14.23	15.87		14.23	16.51		14.23	16.51		
E	9.66	10.66	6	9.66	10.66	6	9.66	10.66	6	
e	-	-		2.29	2.79	9	-	-		
e ₁	-	-		4.83	5.33	9	5.08	BSC		
e ₂	4.83	5.33	8	-	-		-	-		
e ₃	-	-		1.15	-		-	-		
F	.51	1.39		.51	1.39		.51	1.39		
H ₁	5.85	6.85	6	5.85	6.85	6	5.85	6.85	6	
J ₁	2.04	2.92		2.04	2.92		2.04	2.92		
L	-	-		12.70	14.73		12.70	14.73		
L ₁	-	-		-	6.35		4.60	6.35		
L ₂	-	1.27		-	-		-	-		
L ₃	8.64	10.71		-	-		-	-		
L ₄	-	-		-	-		-	.51		
P	3.531	3.733		3.54	4.08		3.531	3.733		
Q	2.54	3.04		2.54	3.42		2.54	3.04		
s	14.74	15.49		-	-		-	-		
NOTE	1,3,10			1,4,10			1m11m12m14			

Y237/TO237

AA			
SYMBOL	MIN.	MAX.	NOTE
A	6.60	7.11	
A ₁	4.32	5.33	
b	.41	.56	4
b ₁	.41	.46	4
c	.36	.51	4
c ₁	.36	.41	4
c ₂	.36	.41	3
Øb	.41	.56	4
Øb ₁	.41	.48	4
D	4.06	5.46	3
ØD	4.44	5.21	
E	3.18	4.23	
e	2.41	2.67	
e ₁	1.14	1.40	
F	2.41	2.67	3
L	12.7	-	
L ₁	-	1.27	4
L ₂	6.35	-	4
S	2.03	2.67	

- NOTES:
1. REFER TO APPLICABLE SYMBOL LIST.
 2. DIMENSIONING AND TOLERANCING PER ANSI Y14.5, 1973.
 3. TAB CONTOUR OPTIONAL WITHIN F .
 4. Øb (b₁ & c₁) APPLY BETWEEN L_1 & L_2 . Øb (b & c) APPLY BETWEEN L_2 & 12.7 FROM SEATING PLANE. DIMENSIONS ARE UNCONTROLLED IN L_1 & BEYOND 12.7 FROM SEATING PLANE.
 5. CONTROLLING DIMENSIONS: MILLIMETER



SECTION 16

LINEAR IC

MANUFACTURERS' SALES OFFICES

These manufacturers have listed their sales offices in this section for your convenience. Please contact the sales office nearest you for any additional information you may need.

(MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS)

ALGG - AEG-TELEFUNKEN



	Zip Code	Telephone No.	TWX/Telex
Serienprodukte Geschäftsbereich Elektronische Bauelemente Theresienstrasse 2, Heilbronn, Germany	7100	07131-8821	728746

AMD - ADVANCED MICRO DEVICES, INC.



	Zip Code	Telephone No.	TWX/Telex
901 Thompson Place, Sunnyvale, California.....	94086	408-732-2400	910-339-9280 34-6306

FSC - FAIRCHILD CAMERA & INSTRUMENT CORPORATION



	Zip Code	Telephone No.	TWX/Telex
Linear Division 313 Fairchild Dr, Mountain View, California.....	94039	415-962-4011	910-379-6435/ MLIC Cable FAIRSEMCO

HSE - HYBRID SEMICONDUCTORS & ELECTRONICS INC.



	Zip Code	Telephone No.	TWX/Telex
50-14 39th St. Long Island City, New York	11104	212-392-0277	64-5067

SALES OFFICE

NEW YORK.....L.I.C.....	Imperial Products Center, Inc.....11104	212-784-7079	64-5067
	50-14 39th St.		

CONTINENTAL

EUROPE .....New York .....(Brooklyn)	Remy Electronics, Inc.....11235	212-934-7225	237733
	1424 Sheepshead Bay Rd.		

INTERNATIONAL

ENGLAND .....Tetbury.....	Diran Semicon Ltd.....GL8 8EQ	Tetbury	43241
	P.O. Box 3, Glos.	52956	

SECTION 16 MANUFACTURERS' SALES OFFICES

ITTG - ITT SEMICONDUCTORS



	Zip Code	Telephone No.	TWX/Telex
INTERMETALL, Post Office Box 840, Freiburg, West Germany.....	D-7800	761-5170	22858
JAPAN Tokyo.....ITT Semiconductors.....	160-91	3478881-5	22858
UNITED KINGDOM Sidcup.....ITT Semiconductors.....	DA14 5HT	1-300 3333	21836
UNITED STATES Lawrence.....ITT Semiconductors.....	01841	617-688-1881	710-342-1357

LTIC - LINEAR TECHNOLOGY INC.



	Zip Code	Telephone No.	TWX/Telex
P.O. Box 489, Station A, Burlington, Ontario, Canada	L7R 343	416-632-2996	061-8525
			Cable LINEAR BURLINGTON

MATJ - MATSUSHITA-PANASONIC ELECTRIC CORPORATION OF AMERICA



	Zip Code	Telephone No.	TWX/Telex
Electronic Components Division Product Marketing/Eastern Regional Sales One Panasonic Way, Secaucus, New Jersey	07094	201-348-5268	710-992-8920
CALIFORNIA Cypress.....Electronic Components Division.....	90630	714-895-7200	
FLORIDA Pompano.....Electronic Components Division.....	33060	305-782-6009	
GEORGIA Norcross.....Electronic Components Division.....	30093	404-925-6830	707396
ILLINOIS Arlington.....Electronic Components Division.....	60005	312-981-4837	
INDIANA Indianapolis.....Electronic Components Division.....	46220	317-257-4417	810-341-3174

Continued on next page

SECTION 16 MANUFACTURERS' SALES OFFICES

MATJ – MATSUSHITA-PANASONIC ELECTRIC CORPORATION OF AMERICAN (Cont.)



	Zip Code	Telephone No.	TWX/Telex
Electronic Components Division Product Marketing/Eastern Regional Sales One Panasonic Way, Secaucus, New Jersey	07094	201-348-5268	710-992-8920
MASSACHUSETTS Peabody Electronic Components Division..... P.O. Box 346	01960	617-741-1722	
MICHIGAN Farmington Electronic Components Division..... 23975 Research Dr.	48024	317-477-5049	
VIRGINIA Lynchburg Electronic Components Division..... Sales Office P.O. Box 11436	24506	804-239-0150	

MPI – MICROPAC INDUSTRIES INC.



	Zip Code	Telephone No.	TWX/Telex
905 East Walnut Street, Garland, Texas.....	75040	214-272-3571	910-860-5186

INTERNATIONAL

WEST GERMANY 28 Bremen 1 Micropac Industries Am. Wall 127 Attn: Mr. Gerhard Meier		0421-313253	
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PHIN – PHILIPS ELECTRONIC COMPONENTS & MATERIALS DIVISION



	Zip Code	Telephone No.	TWX/Telex
MARKETING COMMUNICATIONS Building BA, Eindhoven, Netherlands		(040) 723142	35000
ARGENTINA Buenos Aires Philips Argentina S.A. Div. Elcoma Vedia 3892	1430	541-7141/7545	21243
AUSTRALIA Lane Cove Philips Industries Holdings, Ltd. Elcoma Division 67 Mars Road	2066 N.S.W.	427 0888	21611
AUSTRIA Wien Osterreichische Philips..... Baeuelemente Industrie G.m.b.H. Triester Strasse 64	A-1101	62 91 11	131802
BELGIUM Bruxelles N.V. Philips & M.B.L.E. Associated..... 9 Rue du Pavillon	B-1030	(02)242 7400	21420

Continued on next page

SECTION 16 MANUFACTURERS' SALES OFFICES

PHIN – PHILIPS ELECTRONIC COMPONENTS & MATERIALS DIVISION (Cont'd)



	Zip Code	Telephone No.	TWX/Telex
MARKETING COMMUNICATIONS Building BA, Eindhoven, Netherlands		(040) 723142	35000
BRAZIL Sao Paulo, SP.....Ibrape.....	1735	(011)211-2600	112 4354
	Av. Brigadeiro Faria Lima Caixa Postal 7383		
CANADA Scarborough.....Philips Electronics Ltd.....	M1B 1M8	292-5161	65-25103
	(Ontario) Electron Devices Division 601 Milner Avenue		
DENMARK Kobenhavn NV.....Miniwatt A/S.....	DK-2400	(01) 69 16 22	15310
	Emdrupvej 115A		
FINLAND Helsinki 10.....Oy Philips Ab.....	SF-00100	1 72 71	124811
	Elcoma Division Kaivokatu 8		
FRANCE Paris 11.....R.T.C. (RTCF)*.....	F-75540	355-44-99	680495
	La Radiotechnique Compelec 130 Avenue Ledru Rollin		
GERMANY Hamburg 1.....VALVO (VALG)*.....	D-2	(040)3296-0	216891
	UB Bauelemente der Philips GmbH Valvo Haus Burchardstrasse 19		
HONG KONG Kwai Chung.....Philips Hong Kong Ltd.....		(0)24 5121	75820
	Elcoma Div. 15/F Philips Industrial Bldg. 24-28 Kung Yip Street		
ITALY Milano.....Philips S.p.A.....	I-20124	2-6752.1	3 30262
	Sezione Elecoma Piazza IV Novembre 3		
JAPAN Tokyo.....Nihon Philips Corporation.....	108	(448) 5611	26388
	Shuwa Shinagawa Bldg. 26-33 Takanawa, 3-chome Minato-ku		02422205
KOREA Seoul.....Philips Electronics (Korea) Ltd.....		794-4202	27291
	Philips House-Elcoma Division 260-199 Itaewon-dong Yongsan-ku C.P.O. Box 3680		

* Manufacturer Code inside () can be found in Section 17.
Manufacturers' Codes, Names & Addresses

Continued on next page

SECTION 16 MANUFACTURERS' SALES OFFICES

PHIN – PHILIPS ELECTRONIC COMPONENTS & MATERIALS DIVISION (Cont'd)



		Zip Code	Telephone No.	TWX/Telex
MARKETING COMMUNICATIONS Building BA, Eindhoven, Netherlands			(040)723142	35000
MEXICO Toluca	Electronica S.A. de C.V.	50140	91(721)613-00	1771227
	Carr. Mexico-Toluca Km. 62.5 Edo. de Mexico			
NETHERLANDS Eindhoven	Philips Nederland B.V.	5600 PB	(040) 79 33 33	51238
	Marktgroep Elonco Boschdijk 525			
NEW ZEALAND Auckland	Philips Electrical Industries Ltd.		894-160	2312
	(St. Lukes) Elcoma Division 2 Wagener Place			
NORWAY Oslo 3	Norsk A/S Philips		68-02-00	11141
	Electronica Sandstuveien 70			
SOUTH AFRICA Johannesburg	EDAC (Pty.) Ltd.	2001	614-2362 9	8-3607
	(New Doorn- fontein) 3rd F. Rainer House Upper Railway Rd. & Ove St.			
SPAIN Barcelona 7	Miniwatt S.A.		301 63 12	54666
	Balmes 22			
SWEDEN Stockholm 27	Philips Komponenter A.B.	S-11584	08/679780	10776
	Lidingovagen 50			
SWITZERLAND Zurich	Philips A.G.	CH-8027	01/488-22-11	52392
	Elcoma Dept. Allmendstrasse 140-142			
TAIWAN Taipei	Philips Taiwan Ltd.		(02)5631717	21570
	San Min Bldg., 3rd Floor 57-1 Chung Shan N. Road Section 2 P.O.B. 22978			
UNITED KINGDOM London	Mullard Ltd.	WC1E 7HD	01-580-6633	264341
	Mullard House Torrington Place			
UNITED STATES California	Signetics Corporation (SIC)*	94086	(408) 739-7700	910-339-9203
	(Sunnyvale) 811 East Arques Avenue			

* Manufacturer Code inside () can be found in Section 17.

Manufacturers' Codes, Names & Addresses

**SECTION 16
MANUFACTURERS' SALES OFFICES**

PLSB – PLESSEY SEMICONDUCTORS LTD.



Cheney Manor, Swindon, Wiltshire, United Kingdom.....	Zip Code SN2 2QW	Telephone No. 0793-36251	TWX/Telex 449637
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UNITED STATES

CALIFORNIA.....Irvine..... Plessey Semiconductors	92714	714-540-9979	910-595-1930
1641 Kaiser Avenue			

RTCF – R.T.C. LA RADIANTECHNIQUE-COMPELEC



130, Avenue Ledru-Rollin, Paris Cedex 11, France.....	Zip Code 75.540	Telephone No. 355-44-99	TWX/Telex PHILAMP PARIS 280 746
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SGL – SILICON GENERAL, INC.



11651 Monarch Street, Garden Grove, California	Zip Code 92641	Telephone No. 714-892-5531	TWX/Telex 910-596-1804 69-2411
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SIC – SIGNETICS CORPORATION



811 East Arques Avenue, Post Office Box 409, Sunnyvale, California.....	Zip Code 94086	Telephone No. 408-739-7700	TWX/Telex 910-339-9220
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SPR – SPRAGUE ELECTRIC COMPANY



SEMICONDUCTOR DIVISION 70 Pembroke Rd., Concord, New Hampshire.....	Zip Code 03301	Telephone No. 603-224-1961	TWX/Telex 943346
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**SECTION 16
MANUFACTURERS' SALES OFFICES**

SST - SOLID STATE INC.



46 Farrand Street, Bloomfield, New Jersey	Zip Code 07003	Telephone No. 201-429-8700 212-964-5682	TWX/Telex 710-994-4780 Cable SOLSTAINC BLF
ILLINOIS.....Chicago..... WISCONSIN	C.L. Greenslade Sales, Inc. 5875 Lincoln Ave.	60659 312-561-0156	910-221-5378

17. MANUFACTURERS' LOGOS



TFK

(Product Identifier)

ALGG-Telefunken Electronic GmbH



Alpha

ALP — Alpha Industries



AMD — Advanced Micro Devices



American Microsystems, Inc.

A Subsidiary of Gould Inc

AMI-American Microsystems, Inc.



AMT-Apex Microtechnology Corp.



ANA — Analog Devices Inc.



ANS Analog Systems

Amperex

APX — Amperex Electronic Corp.



AVA-Avantek, Inc.



BELI-Bharat Electronics Limited



BUB-Burr Brown Corp.



CER-Cermetek Microelectronics



CHE — Cherry Semiconductor Corp.



CMI CTS Microelectronics Inc.



DDC — ILC Data Device Corp.



DMC — Dynamic Measurements Corp.

17. MANUFACTURERS' LOGOS



DTL-Dattel-Intersil, Inc.



EXR - Exar Integrated Systems Inc.



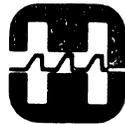
FCAJ - Fujitsu Ltd.



FERRB - Ferranti Electronics Ltd



FSC - Fairchild Camera & Inst.



HAS - Harris Semiconductor



HBC - Hybrid Systems Corp.



HSE-Hybrid Semiconductors



HITJ - Hitachi Ltd.



INL - Intersil Inc.



INT - Intronics Inc.



ITI-Intech, Inc.



ITTG - ITT Semiconductors



LAM - Lambda Semiconductors

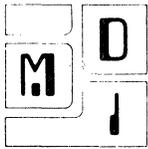


LTIC - Linear Technology Inc.



MATJ - Matsushita Electronics Corp.

17. MANUFACTURERS' LOGOS



MDI – Modular Devices Inc.



MEHK – Micro Electronics Ltd.



MITC – Mitel Semiconductor



MITJ – Mitsubishi Electric Corp.



MOTA – Motorola Semiconductor Products Inc.



MPI – Micropac Industries Inc.



MULB – Mullard Ltd.



NECE – NEC Electronics U.S.A.
NECJ – Nippon Electric Co.



NSC – National Semiconductor



OEI – Optical Electronics Inc.



OPA – Opamp Labs Inc.



PHIN – Philips Elect. Comp. & Material Div.



PLSB – Plessey Semiconductors



PMI – Precision Monolithics Inc.



QUM – Q.D.C. Corp.



RCA – RCA Corp.

17. MANUFACTURERS' LOGOS

RETICON

RET - EG&G Reticon



RTCF - R T C La Radiotechnique
Compelec



RTN - Raytheon Co.



SAKJ - Sanken Electric Co.



SGAI - SGS ATES Component
Electronics

SILICON GENERAL INC.

SGL - Silicon General Inc.

signetics

SIC - Signetics Corp.

SIEMENS



Product Identifier

SIEG - Siemens Aktiengesellschaft



SIX - Siliconix Inc.



SOD - Solitron Devices Inc.
SODI - Solitron Devices Inc.



Product Identifier

SPR - Sprague Electric Co.



SST - Solid State Inc.



SWT - Swampscott Electronics Co.



Product Identifier

TCY - Teledyne Crystalonics Inc.
TSC - Teledyne Semiconductor Corp.



THEF - Thomson-CSF/EFCIS



TII - Texas Instruments

17. MANUFACTURERS' LOGOS



TOSJ - Toshiba Corp.



TPN - Teledyne Philbrick



TSAJ - Tokyo Sanyo
Electric Co., Ltd.



TRWS - TRW Power Semiconductors



TSI - Transistor Specialties Inc.



TSC - Teledyne Systems Co.



UNI - Unitrode Corp.

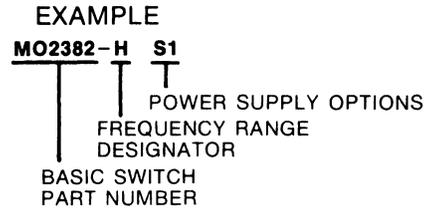


VALG - Valvo GMBH

SECTION 18 DEVICE NUMBERING KEYS



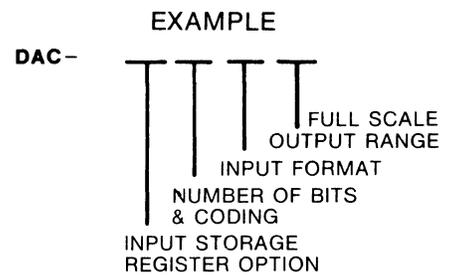
POWER SUPPLY OPTIONS:
S1: +5V, -12V
S2: +5V, -15V



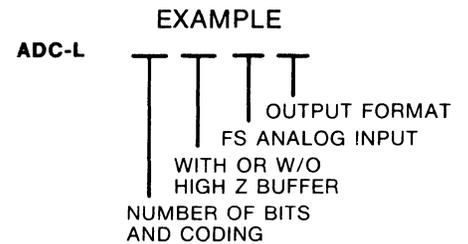
DATA TRANSLATION

DATA TRANSLATION INC.

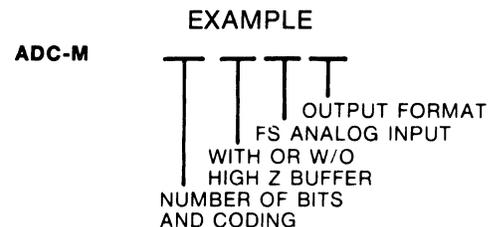
<p>INPUT STORAGE REGISTER OPTION V = W/O VR = With</p> <p>NUMBER OF BITS & CODING 8B Binary 10B Binary 12B Binary 8D BCD 12D BCD</p>	<p>INPUT FORMAT 1 = Straight Binary (Unipolar) 2 = Offset Binary (Bipolar) 3 = 2's Complement (Bipolar) 4 = BCD (Unipolar)</p>	<p>FULL SCALE OUTPUT RANGE A = 0 to +5V B = 0 to +10V C = ±5V D = ±10V</p>
--	---	---



<p>NUMBER OF BITS AND CODING 8B Binary 10B Binary 12B Binary 8D BCD 12D BCD</p> <p>WITH OR W/O HIGH Z BUFFER 1 = With 2 = W/O</p>	<p>FS ANALOG INPUT A = 0V to +5V B = 0V to +10V C = ±5V D = ±10V E = Other (Specify)</p>	<p>OUTPUT 1 = Straight Binary (Unipolar) 2 = BCD (Unipolar) 3 = Offset Binary (Bipolar) 4 = 2's Compl. (Bipolar)</p>
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<p>NUMBER OF BITS AND CODING 8B Binary 10B Binary 12B Binary 8D BCD 12D BCD</p> <p>WITH OR W/O HIGH Z BUFFER 1 = With 2 = W/O</p>	<p>FS ANALOG INPUT A = 0V to +5V B = 0V to +10V C = ±5V D = ±10V E = Other (Specify) F = 0V to -10V</p>	<p>OUTPUT FORMAT 1 = Straight Binary (Unipolar) 2 = BCD (Unipolar) 3 = Offset Binary (Bipolar) 4 = 2's (Compl.) (Bipolar)</p>
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Continued Next Page

SECTION 18 DEVICE NUMBERING KEYS

DATA TRANSLATION

DATA TRANSLATION INC.

MODEL DESIRED

DT5716: 16-Bit Version
DT5714: 14-Bit Version

INPUT CONFIGURATION

SE: Single Ended
DI: Differential

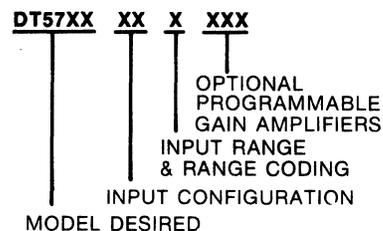
INPUT RANGE & CODING

U: Unipolar 0 to 10V, Binary
B: Bipolar $\pm 10V$, 2's Complement

OPTIONAL PROGRAMMABLE GAIN AMPLIFIERS

PGH: Programmable Gain Amplifier with high level gains of 1, 2, 4, & 8
PGL: Programmable Gain Amplifier with low level, wide range gains of 1, 10, 100, & 500

EXAMPLE



ADDITIONAL CHANNELS

16: 16SE or 8 DI
48: 48SE or 24 DI

INPUT CONFIGURATION

SE: Single-End
DI: Differential

EXAMPLE



LOGIC INTERFACE

1 = ECL 10,000
2 = TTL

ANALOG INPUT Z

A = 50 ohms
B = 75 ohms
C = 93 ohms

ANALOG INPUT VOLTAGE RANGE

1 = $\pm 1V$
2 = $\pm 2V$
3 = $\pm 5V$
4 = 0 to +1V
5 = 0 to +2V
6 = 0 to +5V

EXAMPLE



ILC DATA DEVICE CORPORATION

SYNCHRO OUTPUT VOLTAGE LEVEL AND FREQUENCY

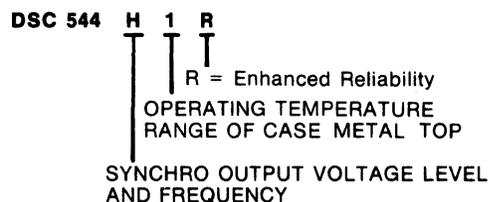
H = 90V rms L-L, 360-440 Hz
I = 90V rms L-L, 57-63 Hz

OPERATING TEMPERATURE RANGE OF CASE METAL TOP

1 = 55° to +85°C
3 = 0°C to +70°C

If a converter module socket is required, order socket number 9010.

EXAMPLE



For further information, or help in ordering, call your nearest DDC representative listed in EEM.

Continued Next Page

SECTION 18 DEVICE NUMBERING KEYS



ILC DATA DEVICE CORPORATION CONT'D

INPUT TYPE:

SDC = Synchro
RDC = Resolver

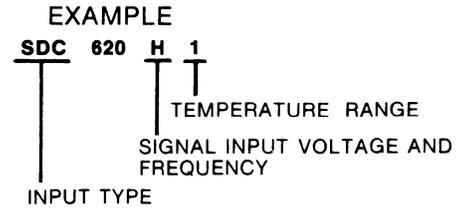
TEMPERATURE RANGE:

1 = -55°C to +105°C
3 = 0°C to +70°C

SIGNAL INPUT VOLTAGE AND FREQUENCY:

H = 90V L-L, 400 Hz (Synchro or Resolver)
I = 90V L-L, 60 Hz (Synchro only)
M = 26V L-L, 400 Hz (Resolver only)
L = 11.8V L-L, 400 Hz (Synchro or Resolver)

If a socket is required, order socket number 9010.



INPUT TYPE:

SDC = Synchro
RDC = Resolver
XDC = Direct Input (1V)

TEMPERATURE (OPERATING):

1 = -55°C to +125°C
3 = 0°C to +70°C

INPUT:

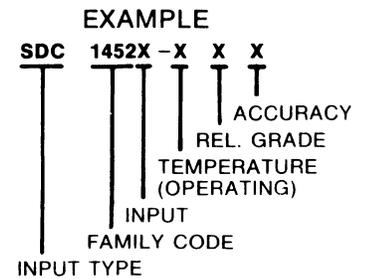
0 = 11.8V, 400 Hz, Synchro
1 = 90V, 400 Hz, Synchro
2 = 90V, 60 Hz, Synchro
4 = 26V, 400 Hz, Resolver
5 = 11.8V, 400 Hz, Resolver
6 = 90V, 400 Hz, Resolver
7 = 1V, 400 Hz, Resolver (Direct)
8 = 1V, 60 Hz, Resolver (Direct)

REL. GRADE

0 = Std.
1 = 883B

ACCURACY:

3 = ±5.3'
4 = ±2.6'
5 = ±1.3'



HARRIS SEMICONDUCTOR

PREFIX

H - Harris

PART NUMBER:

76XX - PROMs
65XX - RAMs
66XX - CMOS PROMs
64XX - Bus Drivers
63XX - CMOS ROMs
0XXX - Diode Matrices

VERSION:

CMOS
A - 10 Volt version
B - High speed - Low power
D - Commercial grade
Blank - Standard product

BIPOLAR

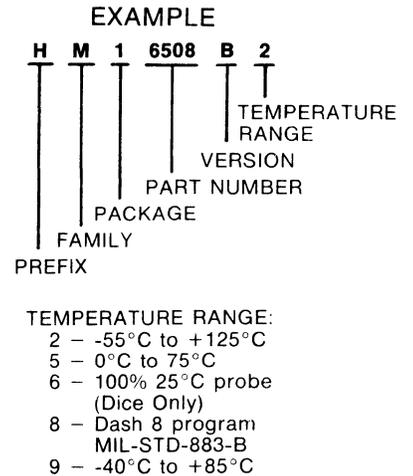
A - Redesign - Two level metal
P - Power Down version
R - Latched outputs
RP - Latched outputs with Power Down option
Blank - Standard parts

FAMILY:

A - Analog
C - Communications
D - Digital
I - Interface
M - Memory

PACKAGE:

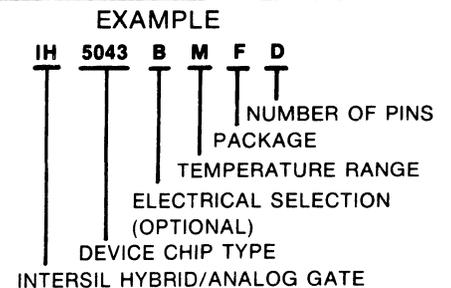
0 - Chip Form
1 - Ceramic DIP
3 - Epoxy DIP
4 - Leadless Carrier
9 - Flatpack



INTERMIL INTERMIL

TEMPERATURE RANGE:

M - -55°C to +125°C
C - 0°C to +70°C



Continued Next Page

SECTION 18

DEVICE NUMBERING KEYS



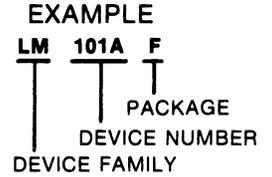
NATIONAL SEMICONDUCTOR CORP.

DEVICE FAMILY

- AD – Analog to Digital
- AH – Analog Hybrid
- AM – Analog Monolithic
- CD – CMOS Digital
- DA – Digital to Analog
- DM – Digital Monolithic
- LF – Linear FET
- LH – Linear Hybrid
- LM – Linear Monolithic
- LX – Transducer
- MM – MOS Monolithic
- TBA – Linear Monolithic

PACKAGE

- D – Glass/Metal Dual-In-Line Package
- F – Glass/Metal Flat Pack
- H – TO-5 (TO-99, TO-100, TO-46)
- J – Low Temperature Glass Dual-In-Line Package
- K – TO-3 (Steel)
- KC – TO-3 (Aluminum)
- N – Plastic Dual-In-Line Package
- P – TO-202 (D-40, Durawatt)
- S – "SGS" Type Power Dual-In-Line Package
- T – TO-220
- W – Low Temperature Glass Flat-Pack
- Z – TO-92



DEVICE NUMBER

- 3, 4, or 5 Digit Number Suffix Indicators:
- A – Improved Electrical Specification
- C – Commercial Temperature Range



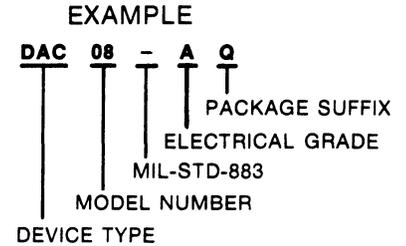
PRECISION MONOLITHICS, INC.

DEVICE TYPE

- BUF – Buffer
- CMP – Voltage Comparator
- DAC – Digital-to-Analog (D/A) Converter
- MAT – Matched Transistors
- MUX – Multiplexer
- OP – Proprietary Operational Amplifier
- PM – Second Source-Industry Specs
- REF – Voltage Reference
- SMP – Sample and Hold
- SSS – Superior Second Source-Improved Specs

PACKAGE SUFFIX

- H – 6 lead TO-78
- J – 8 lead TO-99
- K – 10 lead TO-100
- L – 10 lead Hermetic Flatpack
- M – 14 lead Hermetic Flatpack
- N – 24 lead Hermetic Flatpack
- P – Epoxy B Dip
- Q – 16 lead Hermetic DIP
- T – 28 lead Hermetic DIP
- V – 24 lead Hermetic DIP
- X – 18 lead Hermetic DIP
- Y – 14 lead Hermetic DIP

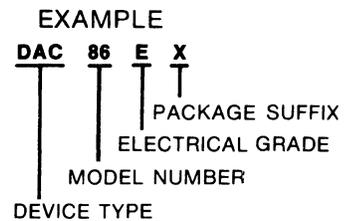


DEVICE TYPE

- BUF – Buffer
- CMP – Voltage Comparator
- DAC – Digital-to-Analog (D/A) Converter
- MAT – Matched Transistors
- MUX – Multiplexer
- OP – Proprietary Operational Amplifier
- PM – Second Source-Industry Specs
- REF – Voltage Reference
- RPT – PCM Repeater
- SMP – Sample and Hold
- SSS – Superior Second Source-Improved Specs

PACKAGE SUFFIX

- J – 8 lead TO-99
 - Q – 16 lead Hermetic DIP
 - T – 28 lead Hermetic DIP
 - X – 18 lead Hermetic DIP
 - Y – 14 lead Hermetic DIP
- (See mechanical dimensions)



SECTION 18 DEVICE NUMBERING KEYS



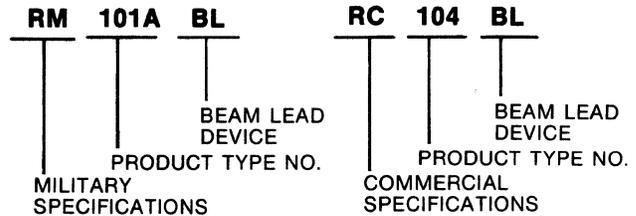
RAYTHEON CORP.

Beam Lead Linear IC's may be ordered either as military or commercial grade devices:

RM = -55°C to +125°C operating temperature range, B-level visual.

RC = 0°C to +70°C C-level visual.

EXAMPLE



SIGNETICS

PRODUCT DESCRIPTION

PRODUCT FAMILY

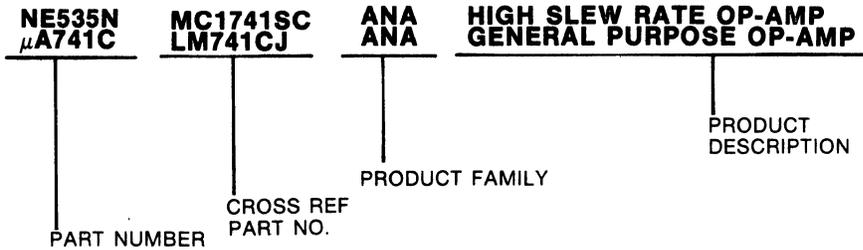
- ECL Emitter Coupled Logic
- DTL Diode Transistor Logic
- ANA Analog Products
- MOS Metal Oxide Silicon
- BIM Bipolar Memory Products
- MIL Military Products
- TTL Transistor Logic
- ML2 Military Products

CROSS REF. PART NO.

PART NUMBER

Package Type
Device Family and Temperature Range Prefix for Industry Standard and Signetics Originated Products

EXAMPLE



SILICONIX

SCREENING CRITERIA (1 Letter)

- A – Electrically probed @ 25°C to "A" Suffix of respective data sheet; visual criteria screening to MIL-STD-883, Method 2010 Condition B.
- I – Electrically probed @ 25°C to "C" Suffix of respective data sheet; visual criteria screening to Siliconix Specification 5018.

PACKAGE

(4 Letters)

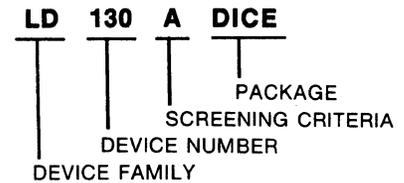
DICE – Chips waffle packed per Figure 1 in Die Process Information Index 5.

OTHER OPTIONS

SEM, wafer qualification should be specified as a separate line item on a request for quote.

Options for Die-In-Wafer form goldbacking, Class A visual, to customer visual criteria are considered "special" and a special part number will be assigned. Please identify as "Similar to _____ with the following additional conditions _____."

EXAMPLE



DIE FAMILY

(1, 2 or 3 Letters)

D – Drivers for FET Switches

DF – Digital Function

L – Linear

LD – Linear Digital Combinations

DEVICE NUMBER

(3 Digit or 3 Digit and 1 Letter Designation)

SECTION 18 DEVICE NUMBERING KEYS



TEXAS INSTRUMENTS, INC. CONT'D

LINEAR CONTROL CIRCUITS

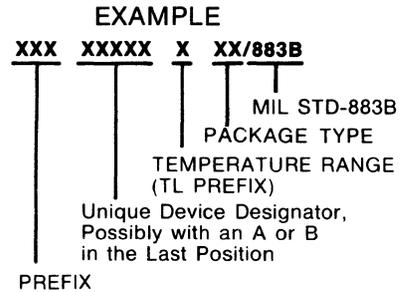
PREFIX
 TL - TI Linear Control Circuits
 AM - Advanced Micro Devices
 DS - National
 LM - National
 MC - Motorola
 N, NE, SE - Signetics
 RC, RM - Raytheon
 SG - Silicon General
 μA - Fairchild
 ULN, UCN - Sprague

PACKAGE SUFFIX & DESCRIPTION
 1 - PEP Level 1
 3 - PEP Level 3
 4 - PEP Level 4
 10 - Solder Dipped

PACKAGE TYPE & DESCRIPTION

J, JG - Ceramic DIP
 JD - Side braze ceramic DIP
 KA, KC, KD, KF - Plastic power tab
 LP - Plastic 3-lead
 N, NE - Plastic DIP
 P - Plastic DIP
 RA - Ceramic Flat Pack
 T - Metal Flat Pack

TEMPERATURE RANGE (TL PREFIX)
 M - -55°C to 125°C
 I - -25°C to 85°C (some exceptions)
 E - -40°C to 85°C
 C - 0°C to 70°C



W - Cermaic Flat Pack
 NT - Plastic DIP, 24 pin 300 mil
 U - Ceramic Flat Pack
 NF - Plastic DIP, 28 pin 400 mil
 FC - Single Layer Sq. Chip Carrier
 FD - Multi Layer Sq. Chip Carrier
 FE - Multi Layer Rect. Chip Carrier
 WC - Ceramic Flat Pack

LINEAR AND INTERFACE NOMENCLATURE

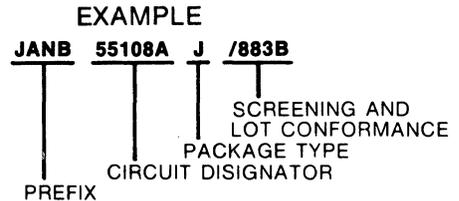
PREFIX
 Must contain three or four letters
 TL - TI Linear Control Products
 SNJ - MIL-STD-883B, JEDEC Standard 101
 JANB - JM38510/JANB Qualified, Note 1

CIRCUIT DESIGNATOR
 Including temperature range
 Must contain three to seven characters
 (From individual data sheets)
 Examples: 022M, 55450B, 78705M

PACKAGE TYPE
 Must contain one or two letters
 (From pin connection diagram on individual data sheets)

SCREENING AND LOT CONFORMANCE /883B - MIL-STD-883B Method 5004 Class B (Not used with part numbers having a JANB or an SN prefix)

Note 1. Where devices are qualified under Military Specification MIL-M-36510

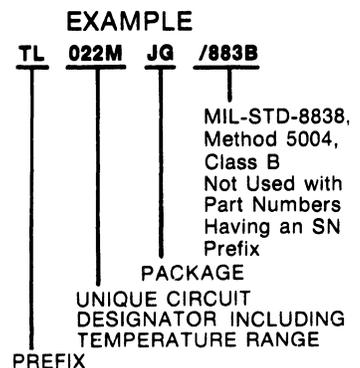


PREFIX
 Must contain two or three Letters
 TL - TI Linear Control Products
 SN - TI Interface Products
 SNM - Mach IV, Level 1
 JM38510 - JAN Product
Standard Second-Source Prefixes
 LF or LM - National
 NE or SE - Signetics
 RM or RC - Raytheon
 MC - Motorola
 μA - Fairchild

UNIQUE CIRCUIT DESIGNATOR INCLUDING TEMPERATURE RANGE
 Must contain three to seven characters
 (From individual data sheets)

Examples:
 022M - 1414
 101A - 75450B
 107 - 78L05AC

PACKAGE
 Must contain one or two letters
 J, JG, LP, N, NE, NG, P, U, or W
 (From Pin-Connection Diagram on Individual Data Sheet)



19. MANUFACTURERS CODES, NAMES & ADDRESSES

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	MANUFACTURERS' CODES, NAMES, AND ADDRESSES
	D1597	ALGG	* Telefunken Electronic GmbH, Postfach 1109, 7100 Heilbronn, West Germany
CDAP	17540	ALP	Alpha Industries, 20 Sylvan Rd., Woburn, MA 01801
CDWN	34335	AMD	* Advanced Micro Devices, Inc., 901 Thompson Pl., Sunnyvale, CA 94086
	31471	AMI	American Microsystems, Inc., 3800 Homestead Rd., M/S 730B, Santa Clara, CA 95051
		AMT	Apex Microtechnology Corp., 1130 E. East Pennsylvania St., Tucson, AZ 85714
	24355	ANA	Analog Devices, Inc., 804 Woburn St., Wilmington, MA 01887
		ANA	Analog Devices Inc., Comp. Labs Div., 7810 Success Rd., Greensboro, NC 27409
		ANS	Analog Systems, P.O. Box 35879, Tucson, AZ 85740
CEP	25403	APX	Amperex Electronic Corp., Providence Pike, Slatersville, RI 02876 (also under PHIN, Sec. 15)
		AVA	Avantek, Inc., 3175 Bowers Ave., MS—3M, Santa Clara, CA 95051
		BELI	Bharat Electronics Ltd., Jalahalli, Bangalore 560 013 India
	13913	BUB	Burr-Brown Corp., P.O. Box 11400, Tucson, AZ 85734
	50077	CER	Cermetek Inc., 1308 Borregas, Sunnyvale, CA 94086
		CHE	Cherry Semiconductor Corp., 2000 South County Trail, E. Greenwich, R.I. 02818
	23223	CMI	CTS Microelectronics, Inc., 1201 Cumberland Ave., West Lafayette, IN 47906
	19647	DDC	ILC Data Devices Corp., 105 Wilbur Pl., Airport Int'l Plaza, NY 11716
	17191	DMC	Dynamic Measurements Corporation, 8 Lowell Ave., Winchester, MA 01890
	50721	DTL	Datel-Intersil Inc., 11 Cabot Blvd., Mansfield Industrial Park, Mansfield, MA 02021
	52063	EXR	Exar Integrated Systems, Inc., Box 62229, 750 Palomar Ave., Sunnyvale, CA 94088
	S0167	FCAJ	Fujitsu Ltd., 1015 Kamikodanaka, Nakahara-ku, Kawasaki 211, Japan
	K1196	FERB	Ferranti Electronics Ltd., Fields New Rd., Chadderton, Oldham OL 9 8NP, England
CFJ	07263	FSC	* Fairchild Camera & Inst., 369 Whisman Rd., M/S 19-1425, Mountain View, CA 94043
	13856	HAL	CTS Halex, 1202 McGraw Ave., Irvine, CA 92714
CDWO	34371	HAS	Harris Semiconductor, P.O. Box 883, Melbourne, FL 32901
	33256	HBC	Hybrid Systems Corp., 22 Linnell Circle, Suburban Ind. Park, Billerica, MA 01821
	S4361	HITJ	Hitachi Ltd., Semicon & IC Div., 1450 Josuihon-Cho, Kodaira-Shi, Tokyo 187, Japan
		HSE	* Hybrid Semiconductors & Elect. Inc., 50-14 39th St., Long Island City, NY 11104
CDPR	32293	INL	Intersil, Inc., 10710 No. Tantau Ave., MS 37, Cupertino, CA 95014
	30635	INT	Intronics, Inc., 57 Chapel St., Newton, MA 02158
	33967	ITI	Intech Inc., 2270 Martin Ave., Santa Clara, CA 95050
CIT	D8849	ITTG	* ITT Semiconductors Intermetall, P.O. Box 840, D-7800 Freiburg 1 BR, West Germany
	53641	LAM	Lambda Semiconductors, 121 International Dr., Corpus Christi, TX 78410
		LTIC	★ Linear Technology, Inc., P.O. Box 489, Stn. A, Burlington, Ontario L7R 3Y3
	01619	MATJ	* Matsushita Electronics Corp., (Panasonic), 1 Kotari Yakemachi, Nagaokakyo, Kyoto 617, Japan
	13656	MDI	Modular Devices, Inc., 50 Orville Dr., Airport International Plaza, Bohemia, NY 11716
	S4140	MEHK	Micro Electronics Ltd., 38 Hung To Road, Kwun Tong, Kowloon, Hong Kong
		MITC	Mitel Semiconductors, P.O. Box 13320, Kanata Ottawa, Canada K2K 1X3
	S0319	MITJ	Mitsubishi Electric Corp., Kita-Itami Works, 4-1 Mizuhara, Itami-Shi, Hyogo-Ken, Post Code 664 Japan
CGG	04713	MOTA	Motorola Semiconductor Products, Inc., 725 So. Madison St., Tempe, AZ 85281
	31757	MPI	* Micropac Industries, Inc., 905 E. Walnut St., Garland, TX 75040
		MPS	Micro Power Systems, 3100 Alfred St., Santa Clara, CA 95050
	K8996	MULB	Mullard Ltd., New Road, Mitcham, Surrey, England CR4 4XY

★ NEW MANUFACTURERS

* See Section 16 for Sales Office Listings

19. MANUFACTURERS CODES, NAMES & ADDRESSES

MANUFACTURERS' CODES, NAMES, AND ADDRESSES

QPL
MFR.
DESIG.

FSCM/
NATO
No.

D.A.T.A.
MFRS.
CODE

QPL MFR. DESIG.	FSCM/ NATO No.	D.A.T.A. MFRS. CODE	
		NECE	NEC Electronics U.S.A., Electron Div., 252 Humboldt Court, Sunnyvale, CA 94086
	S0543	NECJ	Nippon Electric Co., Ltd., 3-484 Tsukagoshi Sai Wai-Ku, Kawasaki City, Japan
CCXP	27014	NSC	National Semiconductor, Microcircuits Div., 2900 Semiconductor Dr., Santa Clara, CA 95051
	26287	OEI	Optical Electronics Inc., P.O. Box 11140, Tucson, AZ 85734
	24699	OPA	Opamp Labs, Inc., 1033 No. Sycamore Ave., Los Angeles, CA 90038
	H0002	PHIN	* Philips Electronic Components & Material Div., Elcoma Comm. Dept., Eindhoven, Netherlands
	K0467	PLSB	* Plessey Semiconductors, Cheney Manor, Swindon, Wiltshire, England SN2 2QW
CEGA	06665	PMI	Precision Monolithics, Inc., 1500 Space Park Dr., Santa Clara, CA 95050
		QUM	Q.D.C. Corporation, 3568 U.S. Highway 22, Somerville, NJ 08876
CRC	18714	RCA	RCA Corporation, Solid State Div., Route 202, Somerville, NJ 08876
		RET	EG&G Reticon, 345 Potrero Ave., Sunnyvale, CA 94086
		RHMJ	Rohm Co., Ltd., P.O. Box 103, Central Kyoto, Japan
		RICJ	RICOH Co., Ltd., 13-1, Himemuro-cho, Ikeda City, Osaka, Japan 563
	F1721	RTCF	* R.T.C. LaRadiotechnique-Compelec, 130, Ave., Ledru-Rollin, 75540 Paris Cedex 11, France (under PHIN Sec 15)
CRP	07933	RTN	Raytheon Company, 350 Ellis St., Mountain View, CA 94043
	S3385	SAKJ	Sanken Electric Co., Ltd., 1-22-8 Nishi-Ikebukuro, Toshima-ku, Tokyo, Japan
	A3500	SGAI	SGS-ATES Componenti Elet. S.p.A., Stradale Primosole, 50, Catania, Italy 95121
	34333	SGL	* Silicon General Inc., 11651 Monarch St., Garden Grove, CA 92641
CDKB	18324	SIC	* Signetics Corp., 811 E. Arques Ave., Mail Bin 27, Sunnyvale, CA 94086
	D1362	SIEG	Siemens Aktiengesellschaft, 8 Munchen 80, Balanstrasse 73, West Germany
		SIL	Silicon Systems Inc., 14351 Myford Rd., Tustin, CA 92680
CDBN	17856	SIX	Siliconix, Inc., 2201 Laurelwood Rd., Santa Clara, CA 95054
CDCD	22229	SOD	Solitron Devices Inc., 8808 Balboa Avenue, San Diego, CA 92123
CDCD	21845	SODI	Solitron Devices Inc., 1177 Blue Heron Blvd., Riviera Beach, FL 33404
CSF	56289	SPR	* Sprague Electric Company, 87 Marshall St., N. Adams, MA 01247
	11911	SSE	Solid State Electronics Corp., 18646 Parthenia, Northridge, CA 91324
		SST	* Solid State Inc., 46 Farrand St., Bloomfield, NJ 07003
		SSMM	Solid State Microtechnology For Music, 2076B Walsh Ave., Santa Clara, CA 95050
		SWT	Swampscott Electronics Co., Inc., 41 Spinale Rd., Swampscott, MA 01907
CCZK	12498	TCY	Teledyne Crystalonics, Inc., 147 Sherman St., Cambridge, MA 02140
		THEF	Thomson-CSF/EFCIS, 6660 Variel Ave., Canoga Park, CA 91304 Thomson-CSF/EFCIS, 45 Avenue de L'Europe, Velizy Villacoublay, 78140 France
CGO	01295	TII	Texas Instruments, Inc., Inquiry Answering Service, M/S 308, P.O. Box 225012, Dallas, TX 75265
	29832	TOSJ	★ Toshiba Corp., c/o Microelectronics Center, Center 1 Komukai Toshiba, Kawasaki 210 Japan
	01281	TPN	Teledyne Philbrick, Allied Drive at Route 128, Dedham, MA 02026
CCNL	01281	TRWS	TRW Power Semiconductor, 14520 Aviation Blvd., Lawndale, CA 90260
		TSAJ	Tokyo Sanyo Electric Co., Ltd., Semiconductor Div., Oizumimachi, Oragun, Gumma, Japan
COAQ	15818	TSC	Teledyne Semiconductor Corp., 1300 Terra Bella Ave., Mountain View, CA 94043
		TSI	Transistor Specialties, Inc., 3 Electronics Ave., Danvers, MA 01923
CDAS	12969	UNI	Unitrode Corp., 5 Forbes Rd., Lexington, MA 02173
	D2540	VALG	Valvo GmbH, P.O. Box 993, D2000, Hamburg 1, West Germany (under PHIN. Sec. 15)

★ NEW MANUFACTURERS

* See Section 16 for Sales Office Listings

LINEAR INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SYMBOLS & CODES COMMON TO ALL TECHNICAL SECTIONS

- ☐ } Indicators of separate manufacturers producing same type number (non-JEDEC), whose characteristics are not the same.
- △ } This manufacturer-identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross
- ⊘ } Index, Technical Data Sections) to avoid the possibility of confusing the devices of one manufacturer with the devices of others.

≡ 1, # 2, : Device has two or more modes of operation — listed on separate lines in the same technical section.

- RT: Suffix indicates device is a replacement type; consult manufacturer.

TYPE No. _____

- ▼ — Custom circuit
- § — Device has two or more modes of operation — listed in separate technical sections
- * — Device contains two or more identical or matched circuits
- ⊘ — Dual comparators (Sect. 9 only)
- † — Programmable op-amp characteristics given for highest specified bias current (Sect. 3 only)
- ⌘ — Chopper stabilized (Sect. 3 & 4 only)
- # — Optically coupled

OUTLINE DRAWINGS _____

- PCB: Printed circuit board
- CH: Chip package
- CN: Can type - non-JEDEC outline
- DL: Dual-in-line Pkg.
- FP: Flat pack - non-JEDEC outline
- MD: Mini DIP
- MT: Mounting tab outline
- MP: Molded or encapsulated package not included in other categories
- MS: Miscellaneous
- QL: Quad-in-Line Pkg.
- TO: Outline in accordance with JEDEC registration
- OCT: Octal plug-in (no dwg. shown)
- △: MO outline in accordance with JEDEC registration
- ⊘: Package style - actual dimensions not specified

OPERATING TEMP. RANGE CODE _____

- | | |
|--------------------------------|--------------------------------|
| 0 — 0 up to 9 ⁰ | B — 110 up to 119 ⁰ |
| 1 — 10 up to 19 ⁰ | C — 120 up to 129 ⁰ |
| 2 — 20 up to 29 ⁰ | D — 130 up to 139 ⁰ |
| 3 — 30 up to 39 ⁰ | E — 140 up to 149 ⁰ |
| 4 — 40 up to 49 ⁰ | F — 150 up to 159 ⁰ |
| 5 — 50 up to 59 ⁰ | G — 160 up to 169 ⁰ |
| 6 — 60 up to 69 ⁰ | H — 170 up to 179 ⁰ |
| 7 — 70 up to 79 ⁰ | J — 180 up to 189 ⁰ |
| 8 — 80 up to 89 ⁰ | K — 190 up to 199 ⁰ |
| 9 — 90 up to 99 ⁰ | M — 200°C and above |
| A — 100 up to 109 ⁰ | |

5 C

\$ Both values of temp. are pos. Max. value only is indicated.

Examples Of Operating Temp. Range Code:

Min. value lies between -50°C and -59°C	Max. value lies between +120°C and +129°C
---	---

OR

\$ 8

Both values of temp. are pos. Max. value only as indicated.	Max. value lies between +80°C and +89°C
---	---

LINE No. _____

- ▼ — New Type
- ◆ — Revised Specification
- # — Non-JEDEC type Manufactured outside U.S.A.

SECTION 3 SECTION 4

OPERATIONAL AMPLIFIERS DIFFERENTIAL AMPLIFIERS

SECTION 3 SECTION 4

TYPE NUMBER
POWER SUPPLY-RATED SPECS AT 25°C

The manufacturers designated type number of the device.

TOTAL VOLTAGE — Voltage difference between the positive (+) and negative (-) power supply terminals. This is a test condition for the device specifications. In the case of more than one supply the greatest voltage will be indicated.

MAX IDLE POWER — The maximum power dissipated by the device in the absence of dynamic activating signals applied to the input(s). This is a test condition for the device specifications.

INPUT CHARACTERISTICS

OVER OPERATING TEMPERATURE RANGE:

MAX VOLTAGE:

DRIFT — The change in the input offset voltage with temperature.

OFFSET — The voltage applied between the input terminals, through two equal resistances, to obtain zero output voltage.

Continued on following page

INTERPRETER — LINEAR INTEGRATED CIRCUITS

SYMBOLS & CODES EXPLAINED

SECTION 3
SECTION 4

OPERATIONAL AMPLIFIERS (CONT'D)
DIFFERENTIAL AMPLIFIERS

SECTION 3
SECTION 4

MAX CURRENT:

OFFSET — The difference in current into the two input terminals with the output voltage at zero.

BIAS — The average of the two input currents with no signal applied.

MINIMUM at 25°C:

CM RANGE — The peak value of the common mode input voltage at which the device will operate in a linear fashion.

DIFFERENTIAL INPUT IMPEDANCE — The impedance "seen looking between" the input terminals.

MINIMUM OUTPUT CHARACTERISTICS AT 25°C

P-P VOLTAGE — The minimum peak-to-peak output voltage that can be obtained without waveform clipping when the quiescent DC output voltage is set at a specified reference level.

P-P CURRENT — The minimum peak-to-peak output current that can be obtained without clipping.

MINIMUM TRANSFER CHARACTERISTICS AT 25°C

3dB BANDWIDTH — The range of frequencies within which the gain of the amplifier is not more than 3dB below the value of the midband gain.

OPEN-LOOP VOLTAGE GAIN — The ratio of the output signal voltage to the differential input signal voltage, with no feedback applied.

SLEW RATE — The time rate of change of the closed-loop amplifier output voltage for a step-signal input.

CMRR — The ratio of the common-mode interference voltage at the input terminals of the system to the effect produced by the common-mode interference, referred to the input terminals for an amplifier.

TEMPERATURE CODE

See page LN-1 for explanation of codes.

DRAWINGS

CIRCUIT — See section 14.

OUTLINE — See section 15.

3. OPERATIONAL AMPLIFIERS 4. DIFFERENTIAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @ 25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR. @ 25°C		MIN TRANSFER CHAR @ 25°C				T C		DRAWINGS	
		1) TOT. VOLT. (ΔV)	2) MAX IDLE P (W)	3) MAX VOLTAGE (V/°C)	4) MAX CURRENT (A)	5) CM RANGE (ΔV)	6) DIFF IMP. (Ω)	7) P-P VOLT. (ΔV)	8) P-P CUR. (ΔA)	9) 3dB BW (Hz)	10) O.L. VOLT. GAIN (dB)	11) SLEW RATE (V/μS)	12) CMRR (dB)	13) E O M D P E	14) C K T.	15) O U T. L I N E Δ = M O			
5																			

- ★
- ★
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- ★
- ★

- 3 † — Typical
 Δ — Max. Volt.
 ◆ — One or more characteristics not at rated supply voltage
 § — Value not symmetrical about zero
 * — ± Volt. range

- 4 † — Typical
 * — Minimum
 □ — Absolute Max.
 Δ — Max Power Diss.
 § — Pkg Power Diss.

- 5 † — Typical
 § — 25°C
 □ — Over limited temperature range

- 6 † — Typical
 § — 25°C
 Δ — Adjustable to zero
 □ — Over limited temperature range
 * — ± Volt Range

- 7 † — Typical
 § — 25°C
 □ — Over limited temperature range

- 9 * — ± Volt. range
 † — Typical
 Δ — Max. safe operating range
 □ — Value not symmetrical about zero
 SE — Single-ended input
 ○ — Over oper. temp. range

- 10 ○ — Single-ended input impedance
 □ — resistance
 § — Common mode
 † — Typical

- 11 † — Typical
 § — Value is not symmetrical about zero
 ○ — Over oper. temp. range

- 12 † — Typical
 ○ — Load impedance (ohms) corresponding to output volt. swing
 ◆ — No load

- 13 † — Typical
 ○ — Unity gain BW
 § — Gain BW Product
 Δ — BW less than 3dB
 □ — Power bandwidth
 * — Adjustable by external connection or control

- 14 † — Typical
 ○ — Over oper. temp. range
 * — Adjustable by external connection or control
 Δ — V/mv
 § — Large Signal Volt Gain (V/V)

- 15 † — Typical
 ○ — Full power BW (kHz)
 □ — Full Power BW (MHz)

- 16 † — Typical
 ○ — Over Oper. Temp. Range
 Δ — Power Supply Rej. Ratio

★ — Symbols and codes at top of first interpreter page-LN-1

LINEAR INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 6

RF/IF AMPLIFIERS

SECTION 6

<p style="text-align: center;">TYPE NUMBER</p> <p style="text-align: center;">POWER SUPPLY-RATED SPECS AT 25°C:</p> <p style="text-align: center;">TOTAL VOLTAGE</p> <p style="text-align: center;">MAX IDLE POWER</p> <p style="text-align: center;">MINIMUM TRANSFER CHARACTERISTICS AT 25°C:</p> <p style="text-align: center;">POWER GAIN</p> <p style="text-align: center;">SPECIFIED FREQUENCY</p> <p style="text-align: center;">UNTUNED 3dB BANDWIDTH</p> <p style="text-align: center;">Y21 (MINIMUM FORWARD TRANSADMITTANCE)</p> <p style="text-align: center;">Y12 (MAXIMUM REVERSE TRANSADMITTANCE)</p> <p style="text-align: center;">MAXIMUM NOISE FIGURE</p> <p style="text-align: center;">INPUT CHARACTERISTICS AT 25°C:</p> <p style="text-align: center;">MINIMUM VOLTAGE P-P</p> <p style="text-align: center;">MAXIMUM CONDUCTANCE</p> <p style="text-align: center;">MAXIMUM CAPACITANCE</p> <p style="text-align: center;">OUTPUT CHARACTERISTICS AT 25°C:</p> <p style="text-align: center;">MINIMUM VOLTAGE P-P</p> <p style="text-align: center;">MAXIMUM CONDUCTANCE</p> <p style="text-align: center;">MAXIMUM CAPACITANCE</p> <p style="text-align: center;">TEMPERATURE CODE</p> <p style="text-align: center;">DRAWINGS</p>	<p>The manufacturers designated type number of the device.</p> <p>Voltage difference between the positive (+) and negative (-) power supply terminals. This is a test condition for the device specifications. In the case of more than one supply the greatest voltage will be indicated.</p> <p>The maximum power dissipated by the device in the absence of dynamic activating signals applied to the input(s). This is a test condition for the device specifications.</p> <p>The ratio of the signal power that a transducer delivers to its load to the signal power absorbed by its input circuit. Tested at 50 ohm load and source.</p> <p>The test frequency for power gain.</p> <p>The range of frequencies within which the gain of the amplifier is not more than 3dB below the value of midband gain.</p> <p>The ratio of the output current to the input voltage with the output short-circuited.</p> <p>The ratio of the input current to the output voltage with the input short-circuited.</p> <p>The ratio of the input signal-to-noise ratio and the output signal-to-noise ratio, expressed as common log.</p> <p>The minimum usable peak-to-peak input voltage.</p> <p>The maximum input conductance of the device.</p> <p>The maximum input capacitance of the device.</p> <p>The minimum usable peak-to-peak output voltage of the device.</p> <p>The maximum output conductance of the device.</p> <p>The maximum output capacitance of the device.</p> <p>See page LN1 for explanation of codes.</p> <p>Circuit — See Section 14</p> <p>Outline — See Section 15</p>
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6. RF/IF AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER (3) POWER GAIN (4) UNTUNED 3dB BW (5) TYPE No.

LINE No	TYPE No	PWR SUP @ 25°C RATED SPECS		MIN TRANSFER CHARACTERISTICS @ 25°C				INPUT CHAR @ 25°C			OUTPUT CHAR @ 25°C			DRAWINGS		
		1) TOT VOLT (ΔV)	2) MAX IDLE P (W)	3) PWR GAIN @ 50Ω LOAD & SOURCE (dB)	4) UN-TUNED SPEC FREQ (Hz)	Y21 (mhos)	Y12 (mhos)	MAX NF (dB)	MIN VOLT P-P (ΔV)	MAX COND (mhos)	MAX CAP (F)	MIN VOLT P-P (ΔV)	MIN COND (mhos)	MAX CAP (F)	E O M D P E	OUT. LINE Δ = MO
5	★	3	4	5	7	8	9	10	11	12	13	14	15	16	★	★

3 ♦ — One or more specs. are not rated at supply voltage
§ — Value not symmetrical about zero

4 † — Typical
* — Minimum
☒ — Absolute max. power dissipation
Δ — Max. power dissipation
§ — Pkg power dissipation

5 Δ — Max available power gain
* — Voltage gain
% — Current gain
§ — AGC available
† — Typical
♦ — Load other than 50 ohm
⊙ — AGC threshold vs. freq. (—μVrms)

7 † — Typical
♦ — Usable freq. range

8 † — Typical
* — Voltage gain (dB)

9 † — Typical
% — Reverse transfer capacitance (pF)
⊙ — Reverse current transfer ratio (G12)

10 † — Typical
Δ — S/N ratio (dB)

11 † — Typical
Δ — Absolute safe Max.
☒ — Typical input power at saturation

12 † — Typical
Δ — Differential input

13 † — Typical

14 Δ — Output current (A) P/F
† — Typical
☒ — Maximum
* — RMS
§ — Po (dBm)
⊙ — Po (W)

15 † — Typical
Δ — Differential output

16 † — Typical
♦ — Typical susceptance (mhos)

★ — Symbols and codes at top of first interpreter page-LN-1

INTERPRETER — LINEAR INTEGRATED CIRCUITS

SYMBOLS & CODES EXPLAINED

SECTION 7

WIDEBAND AMPLIFIERS

SECTION 7

TYPE NUMBER
POWER SUPPLY-RATED SPECS AT 25°C

TRANSFER CHARACTERISTICS AT 25°C

INPUT CHARACTERISTICS AT 25°C

OUTPUT CHARACTERISTICS AT 25°C

TRANSIENT CHARACTERISTICS AT 25°C

TEMPERATURE CODE
DRAWINGS

The manufacturers designated type number of the device.

TOTAL VOLTAGE — Voltage difference between the positive (+) and negative (-) power supply terminals. This is a test condition for the device specifications. In the case of more than one supply the greatest voltage will be indicated.

MAX IDLE POWER — The maximum power dissipated by the device in the absence of dynamic activating signals applied to the input(s). This is a test condition for the device specifications.

3dB BANDWIDTH — MIN UPPER/MAX LOWER — The minimum and maximum range of frequencies within which the gain of the amplifier is not more than 3dB below the value of the midband gain.

MINIMUM VOLTAGE GAIN — The minimum ratio of the output voltage to the input voltage under small signal conditions.

MAXIMUM NOISE FIGURE — The ratio of the input signal-to-noise ratio and the output signal-to-noise ratio expressed as a common log.

MAXIMUM THD (TOTAL HARMONIC DISTORTION) — The maximum rms value of the harmonic content of a signal expressed as a percentage of the rms value of its fundamental.

MINIMUM RESISTANCE — The equivalent resistance "seen looking into" either input terminal with the other terminal grounded.

MAXIMUM P-P VOLTS — The maximum peak-to-peak input voltage of the device.

MAXIMUM RESISTANCE — The small signal AC resistance as "seen looking into" the output with no feedback applied and the output DC voltage near zero.

MINIMUM VOLTAGE P-P — The minimum peak-to-peak output voltage that can be obtained without waveform clipping when the quiescent DC output voltage is set at a specified reference level.

LOAD RESISTANCE — The output load resistance of the device.

MAXIMUM TIME:
RISE — Maximum rise time of the device.
DELAY — Maximum delay time of the device.

See page LN-1 for an explanation of codes.

CIRCUIT — See section 14.
OUTLINE — See section 15.

7. WIDEBAND AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER (3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

LINE No	TYPE No	PWR SUP@25°C RATED SPECS		TRANSFER CHARACTERISTICS @25°C			INPUT CHAR @25°C			OUTPUT CHAR @25°C			TRANSIENT CHAR @25°C		T C E O M D CKT	DRAWINGS OUT. LINE Δ MO
		1) TOT VOLT (ΔV)	2) MAX IDLE P (W)	3) MIN UPPER (Hz)	4) MAX LOWER (Hz)	VOLTAGE GAIN (dB)	MAX NOISE FIGURE (dB)	MAX THD (%)	MIN RESIST (Ω)	MAX P-P VOLTS (ΔV)	MIN RESIST (Ω)	MIN VOLT P-P (ΔV)	LOAD RESIST (Ω)	MAX TIME (s)			RISE (s)	DELAY (s)

★ ★ (3) (4) (5) (6) (7) (8) (9) (10) (11) (12) (13) (14) (15) (16) ★ ★

3 † — One or more of the characteristics not at rated supply voltage
§ — Value not symmetrical about zero
* — ±Voltage Range

4 † — Typical
* — Minimum
□ — Absolute max.
Δ — Max. power diss.
§ — Pkg power diss.

5 † — Typical
∅ — Full power bandwidth
§ — Freq. for min. gain
Δ — Bandwidth less than 3dB
♦ — Test frequency
□ — Gain BW Products
* — Unity gain BW

6 † — Typical
Δ — Bandwidth less than 3dB
□ — Gain BW Products
* — Unity Gain BW

7 † — Typical
Δ — Power gain
% — Current gain
§ — Differential volt. gain
* — Other values of gain available by external connection
§ — AGC available
∅ — Units
♦ — Large signal Volt. gain V/mv

8 † — Typical
§ — Max. signal to noise ratio
* — Max. equivalent input noise (μVrms)
Δ — Max. equivalent output noise (mVrms)

9 † — Typical
Δ — Intermodulation distortion in dB
* — Max. 2nd order distortion (- dB)

10 † — Typical
Δ — Differential input
∅ — Max. VSWR
§ — Impedance

11 † — Typical
* — Min. range for linear output
Δ — DC Input Voltage

12 † — Typical
Δ — Differential output available
∅ — Max. VSWR
§ — Impedance

13 † — Typical
Δ — Output power (W)
* — Output power (dBm)
§ — Over oper. temp.

14 ♦ — No load

15 † — Typical
∅ — Settling time

16 † — Typical

★ — Symbols and codes at top of first interpreter page-LN-1

LINEAR INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 8

VOLTAGE REGULATORS

SECTION 8

<p>TYPE NUMBER</p> <p>NOMINAL VOLTAGE OUT</p> <p>ADJUSTABLE OUTPUT VOLTAGE RANGE</p> <p>MAXIMUM INPUT LINE VOLTAGE</p> <p>MINIMUM OUT/IN DIFFERENTIAL</p> <p>MAXIMUM POWER DISSIPATION AT 25°C</p> <p>MAXIMUM LOAD CURRENT</p> <p>MAXIMUM OUTPUT IMPEDANCE</p> <p>MAXIMUM OUTPUT DRIFT AT 25°C</p> <p>MAXIMUM LINE REGULATION</p> <p>MAXIMUM LOAD REGULATION</p> <p>MINIMUM RIPPLE REJECTION</p> <p>MAXIMUM TRANSIENT RECOVERY</p> <p>TEMPERATURE CODE</p> <p>DRAWINGS</p>	<p>The manufacturers designated type number of the device.</p> <p>The nominal output voltage of the device.</p> <p>LOW/HIGH — The high/low regulated voltage present at the output of the regulator.</p> <p>The maximum voltage level of the main power supply to the device.</p> <p>The minimum difference between the input voltage and the output voltage.</p> <p>The maximum allowable device dissipation at 25°C ambient.</p> <p>The maximum current that is supplied to the load by the regulator.</p> <p>The maximum impedance presented by the output terminals to the load.</p> <p>The maximum change in output voltage with temperature.</p> <p>LINE VOLTAGE CHANGE/OUTPUT VOLTAGE CHANGE — The change in output voltage for a change in input voltage from one level to another.</p> <p>LOAD CURRENT CHANGE/OUTPUT VOLTAGE CHANGE — The change in output voltage, for a change in load current from one level to another.</p> <p>The ratio of the peak-to-peak input ripple voltage to the peak-to-peak output ripple voltage.</p> <p>at LINE CHANGE — The time interval between a step-function change of the input level and that instant at which the magnitude of the output level enters for the last time a specified level range containing the final output level.</p> <p>at LOAD CHANGE — The time interval between a step function change of the load current and that instant at which the magnitude of the output level enters for the last time a specified level range containing the final output level.</p> <p>See page LN-1 for explanation of codes.</p> <p>CIRCUIT — See section 14.</p> <p>OUTLINE — See section 15.</p>
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8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No	TYPE No	1 NOM VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT RANGE (V)		2 MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF (ΔV)	3 MAX POWER DISS @ 25°C (W)	MAX LOAD CUR (A)	MAX OUT-PUT IMP. (Ω)	MAX OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE VOLT CHG (ΔV)	MAX OUTPUT VOLT CHG (%)	MAX LOAD CUR. CHG. (ΔA)	MAX LOAD REG. VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG (s)	MAX TRANSIENT RECOVERY @LOAD CHG (s)	T C E O M D P E	DRAWINGS CKT	OUT-LINE Δ = MO
			LOW	HIGH																
★	★	3	4	5	7	8	10	11	13	15	16	17	18	★	★					

- | | | | |
|---|---|---|--|
| <p>3 □ — Shunt Regulator</p> <p>§ — Positive and negative of this magnitude</p> <p>◆ — Negative output voltage</p> | <p>7 * — Min. input voltage (V)</p> <p>Δ — Absolute Max.</p> | <p>11 † — Typical</p> <p>% — Percent change over entire range</p> <p>§ — Over entire operating range</p> <p>Δ — %/°C</p> <p>* — Neg. Voltage</p> | <p>15 † — Typical</p> <p>Δ — Voltage change in volts</p> <p>* — Change in %/A</p> |
| <p>4 5 * — Other fixed non-adjustable output voltage</p> <p>% — Accuracy in % tolerance of value indicated in nom. volt. out column</p> <p>§ — Tolerance in volts (± of value indicated in nom. volt. out column)</p> <p>◆ — Negative voltage</p> <p>Δ — Positive voltage</p> | <p>8 § — Over entire operating range</p> <p>* — Internally limited</p> | <p>13 § — Voltage change (volts)</p> <p>† — Typical</p> <p>Δ — Change in %/volt</p> <p>◆ — % change for max. line regulation</p> | <p>16 † — Typical</p> <p>Δ — Ripple Sens. in %/V</p> |
| | <p>10 † — Typical</p> | | <p>17 18 † — Typical</p> |

★ — Symbols and codes at top of first interpreter page-LN-1

INTERPRETER — LINEAR INTEGRATED CIRCUITS SYMBOLS & CODES EXPLAINED

SECTION 9

VOLTAGE COMPARATORS

SECTION 9

TYPE NUMBER
POWER SUPPLY-RATED SPECS AT 25°C

The manufacturers designated type number of the device.

TOTAL VOLTAGE — Voltage difference between the positive (+) and negative (-) power supply terminals. This is a test condition for the device specifications. In the case of more than one supply the greatest voltage will be indicated.

MAXIMUM IDLE POWER — The maximum power dissipated by a device in the absence of dynamic activating signals applied to the input(s). This is a test condition for the device specifications.

INPUT CHARACTERISTICS

OVER OPERATING TEMPERATURE RANGE:

MAX VOLTAGE:

DRIFT — The change in the input offset voltage with temperature.

OFFSET — The voltage applied to the input terminals to give the logic threshold voltage at the output.

MAX CURRENT:

OFFSET — The difference between the two input currents with the output at the logic threshold voltage.

BIAS — The average of the two input currents with no signal applied.

at 25°C:

MINIMUM CM RANGE — The peak value of the common mode input voltage at which the device will operate in a linear fashion.

STROBE CURRENT MAXIMUM — The maximum current taken by the strobe terminal during activation.

OUTPUT CHARACTERISTICS AT 25°C

MINIMUM OUTPUT VOLTAGE:

POSITIVE — The minimum peak positive output voltage, referred to zero.

NEGATIVE — The minimum peak negative output voltage, referred to zero.

MAXIMUM OUTPUT RESISTANCE — The resistance "seen looking into" the output with the DC output level at the logic threshold.

MINIMUM CURRENT SINK — Minimum low-level output current.

MINIMUM VOLTAGE GAIN — The minimum ratio of the change in output voltage to the change in voltage between the input terminals, with the DC output in the vicinity of the logic threshold.

MAXIMUM RESPONSE TIME — The maximum interval between the application of an input step function and the time when the output voltage crosses the logic threshold level.

WORST CASE TRANSFER CHARACTERISTICS AT 25°C

TEMPERATURE CODE
DRAWINGS

See page LN-1 for an explanation of codes.

CIRCUIT — See section 14.

OUTLINE — See section 15.

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C RATED SPECS		INPUT CHARACTERISTICS @25°C					OUTPUT CHAR @ 25°C			W/C TRANSFER T C		DRAWINGS	
		TOT	MAX	MAX VOLTAGE	MAX CURRENT	MIN CM RANGE	STROBE CUR-MAX	MIN. OUTPUT VOLTAGE	MAX. OUT RES.	MIN. CURR SINK	VOLT. GAIN	RESP. TIME	M D P E	CKT.	OUT. LINE Δ=MO
		(ΔV)	(W)	(V)	(A)	(ΔV)	(A)	(V)	(Ω)	(A)	(dB)	(s)			

- ★
- ★
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- ★
- ★

3 ♦ — One or more of the characteristics are not at rated supply voltage
§ — Value is not symmetrical about zero
* — ± Volt. range

4 † — Typical
* — Minimum
∇ — Absolute max power dissipation
Δ — Max power dissipation
§ — Pkg power dissipation

5 † — Typical
§ — 25°C
∇ — Over limited temperature range

6 † — Typical
§ — 25°C
Δ — Adjustable to zero
∇ — Over limited temp. range

7 † — Typical
8 § — 25°C
∇ — Over limited temperature range

9 † — Typical
Δ — Max. safe operating range
§ — Value is not Symmetrical about zero
SE — Single-ended input
* — CMR in dB

10 † — Typical

11 † — Typical
∅ — Negative
♦ — Max. output voltage at a specified output leakage current

12 † — Typical
§ — Positive
Δ — Max.

13 † — Typical

14 † — Typical
Δ — Absolute safe max.
♦ — Output Leakage Current

15 SEE NOTE BELOW
† — Typical
Δ — Volt. gain V/mV
* — Units
§ — Large signal voltage gain V/V

16 SEE NOTE BELOW
† — Typical
§ — Not at 100 mV input with 5 mV overdrive
* — Turn on time
∅ — Rise time

Note: W/C (Worst Case) Min. voltage gain conditions specified: Max. response time

★ — Symbols and codes at top of first interpreter page-LN-1

LINEAR INTEGRATED CIRCUITS — INTERPRETER SYMBOLS & CODES EXPLAINED

SECTION 10

SPECIAL FUNCTIONS

SECTION 10

TYPE NUMBER
USE

The manufacturers designated type number of the device.
A numeric code indicating the devices main function. See below Tab 3 for an explanation of codes.

POWER SUPPLY-RATED SPECS AT 25°C

TOTAL VOLTAGE — Voltage difference between the positive (+) and negative (-) power supply terminals. This is a test condition for the device specifications. In the case of more than one supply the greatest voltage will be indicated.

MAXIMUM IDLE POWER — The maximum power dissipated by a device in the absence of dynamic activating signals applied to the input(s). This is a test condition for the device specifications.

MINIMUM INPUT CHARACTERISTICS AT 25°C

IMPEDANCE — The effective minimum impedance "seen looking into" the input terminals of an amplifier.

VOLTAGE RANGE — The minimum usable peak-to-peak input voltage.

OUTPUT CHARACTERISTICS AT 25°C

MAXIMUM IMPEDANCE — The equivalent maximum impedance "seen looking into" the output terminal.

MINIMUM VOLTAGE RANGE — The minimum peak-to-peak output voltage that can be obtained without waveform clipping when the quiescent DC output voltage is set at a specified reference level.

TEMPERATURE CODE
DRAWINGS

See page LN-1 for explanation of codes.

CIRCUIT — See section 14.

OUTLINE — See section 15.

GENERAL DESCRIPTION

Brief description of the main functions and/or characteristics of the device.

10. SPECIAL FUNCTIONS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	TYPE No.	PWR SUP @25°C			MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C			T C E O M D P E	DRAWINGS CKT.	OUT-LINE Δ=MO	GENERAL DESCRIPTION
		U S E	1 2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	IMPED- ANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)					
★	★	3	4	5	6	7	8	9	★	★	13		

- 3 1 — Current Ampl.
- 2 — Log Ampl.
- 3 — Multiplier
- 4 — Squaring Ampl.
- 5 — Funct. Gen
- 6 — Sin/Cos Funct. Gen.
- 7 — Sin/Sq/Tri Osc
- 8 — Divider
- 9 — Freq. to DC Conv.
- 10 — Volt. Controlled Osc.
- 11 — Volt to Freq. Conv.
- 12 — Volt-Freq/Freq-Volt Conv.

- 4 ♦ — One or more of the characteristics are not at rated supply voltage
- § — Value is not symmetrical about zero
- * — ± Volt. range listed

- 6 † — Typical
- * — Min. in current range in Δ mA
- § — Resistance

- 8 † — Typical
- * — Min. out current range in Δ mA
- ∅ — Load impedance in ohms
- § — Resistance

- 3 14 — Analog Signal Level Det.
- 15 — S/H Ampl.
- 16 — Instr. Ampl.
- 17 — Anti-Log Ampl.
- 18 — Buffer Ampl.
- 19 — Volt. Ref. Ampl.
- 20 — Servo. Ampl.
- 21 — Isolation Ampl.
- 23 — Oscillator
- 24 — Pulse Gen.
- 25 — Volt. to Current Conv.
- 26 — Delay lines

- 5 † — Typical
- § — Under load conditions
- — Absolute max. power diss.
- Δ — Max. power dissipation
- * — Pkg. power dissipation

- 7 † — Typical
- * — Max. offset voltage (mV)
- § — Value is not symmetrical about zero
- Δ — Absolute safe max.
- — Indicates all negative range
- ♦ — ± Volt. range

- 9 ∅ — Min. out Volt. level
- † — Typical
- § — Value is not symmetrical about zero
- — Indicates all negative range
- * — ± Volt Range

13 SEE NEXT PAGE

★ — Symbols and codes at top of first interpreter page-LN-1

INTERPRETER — LINEAR INTEGRATED CIRCUITS

SYMBOLS & CODES EXPLAINED

SECTION 12

MISCELLANEOUS

SECTION 12

TYPE NUMBER The manufacturers designated type number of the device.
 USE A numeric code indicating the devices main function. See below Tab 3 for explanation of codes.
 TEMPERATURE CODE See page LN1 for an explanation of codes.
 DRAWINGS CIRCUIT — See section 14.
 OUTLINE — See section 15.
 GENERAL DESCRIPTION Brief description of the main functions and/or characteristics of the device.

12. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	TYPE No.	DRAWINGS		GENERAL DESCRIPTION
		U S E	T C O D E	

★ ★ (3) ★ ★ (7)

- | | | |
|--|---|--|
| <p>(3) 10. Temperature sensor CKT
 11. Motor starting CKT
 12. Level detector — analog
 13. Voltage/current level detector
 14. Current source (<math>I_{1A}</math>)
 15. Switch mode regulator
 16. Proximity switch, — solid state
 17. PWM control CK
 18. Switching voltage regulator
 19. Temp. sensor controller</p> | <p>(3) 21. Switching power supply control CKT
 22. Over/under voltage protector
 56. Ring modulator
 58. Temp. controled diff. pair
 59. Special Subsystem
 62. Phase control circuit
 63. Reference amplifiers & diodes
 64. Voltage or current stabilizers & limiters (temp controlled)</p> | <p>(3) 65. Analog adder/summing amp
 76. Active filters
 79. Programmable gain amplifiers
 80. Pulse width mod.
 81. Motor speed controller
 87. Multi-function device
 88. Hall effect device
 89. Phase Comparators
 90. Programmable Comparator</p> |
|--|---|--|

SECTIONS 10, 12

GENERAL DESCRIPTION

SECTION 10, 12

- | | | |
|---|--|---|
| <p>(7) \square — Selected ranges available
 (13) Δ — Maximum
 * — Minimum
 † — Typical
 ϕ — Adjustable
 # — Over entire temperature range
 § — Value is not symmetrical about zero
 ♦ — Optional characteristic, consult manufacturer
 ΔF — Frequency deviation
 ΔI_i — Input current (P-P)
 ΔI_o — Output current (P-P)
 ΔV_i — Input voltage (P-P)
 ΔV_o — Output voltage (P-P)
 ΔV_s — Power supply span
 1% BW — Bandwidth for 1% accuracy
 Acc — Accuracy
 Adj — Adjustable
 Anlg — Antilogarithmic function
 BP — Bandpass
 BVcbo — Breakdown voltage collector-to-base; emitter open-circuit
 BVceo — Breakdown voltage; collector-to-emitter; base open-circuit
 BVcer — Breakdown voltage; collector-to-emitter; base-to-emitter resistance specified
 BVebo — Breakdown voltage; emitter-to-base; collector open-circuit
 BW 3db — Bandwidth</p> | <p>Cd — Capacitance
 CL — Conversion Loss
 Darl — Number of darlington pairs
 Dio — Number of diodes
 Dr — Drift with time
 ECL — Emitter coupled logic
 FP BW — Full power bandwidth
 Freq. — Operating frequency
 Ft — Extrapolated unity gain frequency (gain bandwidth product). Product of the common-emitter current transfer ratio and the frequency of measurement at a frequency where the current gain is decreasing at the rate of 6 dB per octave. This frequency is also known as the transition frequency.
 Gi — Current gain
 Gv — Voltage gain
 hFE — DC forward current transfer ratio, common emitter
 HP — Highpass
 I_c — Collector current, DC
 I_f — Forward current
 I_o — Output current
 I_{os} — Offset current
 LP — Lowpass
 I_r — Reverse current
 I_z — Zener current
 Lgrf — Logarithmic ratio function
 Log — Logarithmic function</p> | <p>Mod — Module has both log and antilog function
 No — Output noise
 Pd — Total power dissipation
 PIV — Peak Inverse Voltage
 PLL — Phase lock loop
 Po — Power output
 Reg — Line or load regulation — whichever is worst case
 RL — Rated load
 Ring — Input voltage range in dB
 Ro — Output resistance
 Rpl — Ripple
 Seg — Number of line segments
 Sen — Sensitivity
 SL Rng — Slope range
 SR — Slew rate
 TC — Temperature coefficient
 Trn — Number of transistors
 Trr — Reverse recovery time
 Vbe — Base-to-emitter voltage, DC
 Vcb — Collector-to-base voltage, DC
 Vce — Collector-to-emitter voltage, DC
 Vf — Forward voltage
 Vi — Input voltage
 Vo — Output voltage
 Vos — Offset voltage
 Vref — Reference voltage
 Zz — Zener impedance</p> |
|---|--|---|

★ — Symbols and codes at top of first interpreter page-LN-1

SYMBOLS & CODES COMMON TO D.A.T.A. LINEAR I.C. BOOK

- ⊠ } Indicators of separate manufacturers producing same type number (non-JEDEC), whose characteristics are not the same.
- △ } This manufacturer-identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross
- % } Index, Technical Data Sections) to avoid the possibility of confusing the devices of one manufacturer with the devices of others.

#1,#2,: Device has two or more modes of operation – listed on separate lines in the same technical section.

-RT: Suffix indicates device is a replacement type; consult manufacturer.

TYPE No.

- ▼ – Custom Circuit
- § – Device has two or more modes of operation – listed in separate technical sections
- * – Device contains two or more identical or matched circuits
- ∅ – Dual comparators (Sect. 9 only)
- † – Programmable op-amp characteristics given for highest specified bias current (Sect. 3 only)
- \$ – Chopper stabilized (Sect. 3 & 4 only)
- # – Optically coupled

LINE No.

- ▼ – New Type
- ◆ – Revised Specification
- # – Non-JEDEC type Manufactured outside U.S.A.

* Continued

LINEAR I.C. MANUFACTURERS' CODES AND NAMES

D.A.T.A. MFRS.' CODE	MANUFACTURER	D.A.T.A. MFRS.' CODE	MANUFACTURER
ALGG	* Telefunken Electronic GmbH	FERB	Ferranti Electronics Ltd.
ALP	Alpha Industries	FSC	* Fairchild Camera & Inst.
AMD	* Advanced Micro Devices, Inc.	HAL	CTS Halex
AMI	American Microsystems, Inc.	HAS	Harris Semiconductor
AMT	Apex Microtechnology Corp.	HBC	Hybrid Systems Corp.
ANA	Analog Devices, Inc.	HITJ	Hitachi Ltd., Semicon & IC Div.
ANA	Analog Devices Inc., Comp. Labs Div.	HSE	* Hybrid Semiconductors & Elect. Inc.
ANS	Analog Systems	INL	Intersil, Inc.
APX	Amperex Electronic Corp.	INT	Intronics, Inc.
AVA	Avantek, Inc.	ITI	Intech Inc.
BELI	Bharat Electronics Ltd.	ITTG	* ITT Semiconductors Intermetall
BUB	Burr-Brown Corp.	LAM	Lambda Semiconductors
CER	Cermetek Inc.	LTIC	★ Linear Technology, Inc.
CHE	Cherry Semiconductor Corp.	MATJ	* Matsushita Electronics Corp., (Panasonic)
CMI	CTS Microelectronics, Inc.	MDI	Modular Devices, Inc.
DDC	ILC Data Devices Corp.	MEHK	Micro Electronics Ltd.
DMC	Dynamic Measurements Corporation	MITC	Mitel Semiconductors
DTL	Datel-Intersil Inc.	MITJ	Mitsubishi Electric Corp.
EXR	Exar Integrated Systems, Inc.	MOTA	Motorola Semiconductor Products, Inc.
FCAJ	Fujitsu Ltd.	MPI	* Micropac Industries, Inc.
		MPS	Micro Power Systems
		MULB	Mullard Ltd.

★ NEW MANUFACTURERS

* See Section 16 for Sales Office Listings

Continued

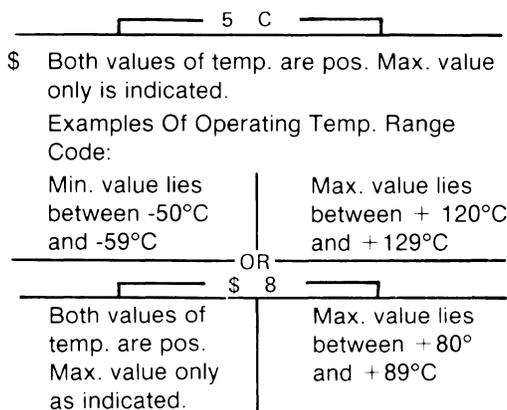
SYMBOLS & CODES COMMON TO D.A.T.A. LINEAR I.C. BOOK

OUTLINE DRAWINGS

- Printed circuit board
CH: Chip package
CN: Can type - non-JEDEC outline
DL: Dual-in-line Pkg.
FP: Flat pack - non-JEDEC outline
MD: Mini DIP
MT: Mounting tab outline
MP: Molded or encapsulated package not included in other categories
MS: Miscellaneous
QL: Quad-in-Line Pkg.
TO: Outline in accordance with JEDEC registration
OCT: Octal plug-in (no dwg. shown)
 Δ : MO outline in accordance with JEDEC registration
 \square : Package style - actual dimensions not specified

OPERATING TEMP. RANGE CODE

- | | |
|------------------|---------------------|
| 0 - 0 up to 9° | A - 100 up to 109° |
| 1 - 10 up to 19° | B - 110 up to 119° |
| 2 - 20 up to 29° | C - 120 up to 129° |
| 3 - 30 up to 39° | D - 130 up to 139° |
| 4 - 40 up to 49° | E - 140 up to 149° |
| 5 - 50 up to 59° | F - 150 up to 159° |
| 6 - 60 up to 69° | G - 160 up to 169° |
| 7 - 70 up to 79° | H - 170 up to 179° |
| 8 - 80 up to 89° | J - 180 up to 189° |
| 9 - 90 up to 99° | K - 190 up to 199° |
| | M - 200°C and above |



LINEAR I.C. MANUFACTURERS' CODES AND NAMES

D.A.T.A. MFRS.' CODE	MANUFACTURER	D.A.T.A. MFRS.' CODE	MANUFACTURER
NECE	NEC Electronics U.S.A., Electron Div.	SIL	Silicon Systems Inc.
NECJ	Nippon Electric Co., Ltd.	SIX	Siliconix, Inc.
NSC	National Semiconductor, Microcircuits Div.	SOD	Solitron Devices Inc.
OEI	Optical Electronics Inc.	SODI	Solitron Devices Inc.
OPA	Opamp Labs, Inc.	SPR	* Sprague Electric Company
PHIN	* Philips Electronic Components & Material Div.	SSE	Solid State Electronics Corp.
PLSB	* Plessey Semiconductors	SST	* Solid State Inc.
PMI	Precision Monolithics, Inc.	SSMM	Solid State Microtechnology For Music
QUM	Q.D.C. Corporation	SWT	Swampscott Electronics Co., Inc.
RCA	RCA Corporation, Solid State Div.	TCY	Teledyne Crystalonics, Inc.
RET	EG&G Reticon	THEF	Thomson-CSF/EFCIS Thomson-CSF/EFCIS
RHMJ	Rohm Co., Ltd.	TII	Texas Instruments, Inc.
RICJ	RICOH Co., Ltd.	TOSJ	★ Toshiba Corp.
RTCF	* R.T.C. LaRadiotechnique-Compelec	TPN	Teledyne Philbrick
RTN	Raytheon Company	TRWS	TRW Power Semiconductor
SAKJ	Sanken Electric Co., Ltd.	TSAJ	Tokyo Sanyo Electric Co., Ltd., Semiconductor Div.
SGAI	SGS-ATES Componenti Elet. S.p.A.	TSC	Teledyne Semiconductor Corp.
SGL	* Silicon General Inc.	TSI	Transistor Specialties, Inc.
SIC	* Signetics Corp.	UNI	Unitrode Corp.
SIEG	Siemens Aktiengesellschaft	VALG	Valvo GmbH

★ **NEW MANUFACTURERS**

* See Section 16 for Sales Office Listings

Now—a semiconductor/IC type number alone will get you

Instant Product Class and Source Data Master Type Locator

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Numeric/alpha-numeric listings combined with D.A.T.A.'s unique Product Class Code let you identify a device instantly when you know the type number. And coverage is the most complete available today. 123,105 discrete types appear, including 26,100 Transistors, 42,100 Diodes, 23,100 Thyristors, 20,940 Microwave, and 10,865 Optoelectronic devices. 60,671 IC types are listed, including 15,310 Digital, 12,800 Interface, 7,225 Memory, 5,410 Microprocessor, 2,328 Microcomputer Systems, 1,773 Consumer, and 15,825 Linear devices. Incorporated in these totals are over 11,530 JEDEC and 7,760 military-qualified devices. In all, Master Type Locator identifies 110 separate product classes.

INSTANT MANUFACTURER INFORMATION

Manufacturers of these devices are referenced in the Tabulation section. A flip of the pages takes you to the complete address. And that makes requesting additional information—or ordering—as simple as turning a page.

INSTANT ACCESS TO TECHNICAL DATA

If you need technical data instantly and are a D.A.T.A.BOOK subscriber, the Product Class Code tells you which D.A.T.A.BOOK to consult. It even tells you what Technical Sections to go to!
Published Annually \$59.00

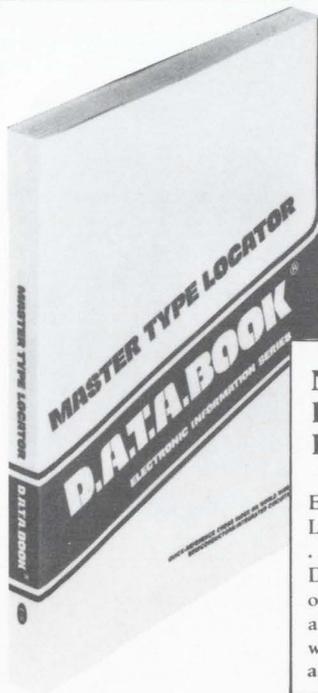
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D.A.T.A.BOOK of Discontinued Digital and Consumer I.C.s

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