

線性IC資料手冊
LINEAR
INTEGRATED CIRCUITS

D.A.T.A.BOOK[®]
ELECTRONIC INFORMATION SERIES



全華科技圖書公司印行

編輯大意與程序

目 的

本書的編輯目的是要將目前世界所生產的線性積體電路作一報告。本書也許無法提供您百分之百的資料，但其主要目的是要使您易於尋獲合乎需要的型號及提供您製造廠商的資料。

技術數據的獲取

本書是由製造廠商提供最新的技術資料編輯而成。刊登此等產品資料並未向製造廠商索酬。

JEDEC 型號

在本書編輯時尚未有 JEDEC 型號。有些器材具有 JEDEC 指定的 DO-，MO-，和 TO-外型，此等資料會包括在外觀圖部份。

軍用型號

技術欄中所列軍用型號的電機、機械及環境特性是直接由軍用規格和標準中獲得。此等合於軍用型號製造廠商的資料是由 QPL（合格零件表）中獲得，也有些是從製造廠商的測試合格文件中獲得。

代用型號與共同性

本書的主要目的雖然不是專為提供互換表而作，但由於技術欄的編列安排，會使特性相同或相近的型式集中在一起。因此，若欲取代或互換零件，本書提供了最完全也最方便的比較資料，這樣比只列出代換型號更好並且更安全。

價格與商品供應情形

由於電子工業具有複雜且變化快速的特性，因此最新的價格與資料，皆需向製造廠商直接求取。書中的製造廠商表及在地址均可提供此一方面的協助。

製造廠商之規格

本書包括目前正在生產器材的主要特性、圖形及製造廠，並盡一切努力以確保其中的正確性。但，錯誤與疏漏之處，仍所難免。因此，最新的價格與技術細節只有製造廠及其代理商方能提供。

如何發揮本書的最大功用

爲使本書發揮最大功能，先確定你問題中的已知和未知，再遵循下列的指示。

1	已知：電機與機械方面的要求——運算放大器，$\pm 12\text{V}$電源，靜態電力108mW 未知：適合的型號 指示： (a) 翻至目錄表，選擇技術欄中相關的已知元件型式——3 運算放大器，自本書 31 頁起。 (b) 翻到運算放大器所屬頁數，注意每頁右上角所示的編列參數，本例中依序爲(1)總電壓，(2)總靜態電力，……等。 (c) 本要求中的總電壓爲24V，總靜態電力爲108mW。 利用這些已知參數值可發現所要的資料位於 36 頁之第 13 行到第 16 行。 假如再有一已知條件如最大漂浮電壓爲$20\mu\text{V}/^{\circ}\text{C}$，則可定出唯一的型號爲 LH0005H (位於第 15 行)。 (d) 如欲查明所選型號的製造廠商，請依下面 2 號框指示。
2	已知：型號 - LH0005H 未知：製造廠商之相關資料 指示： (a) 翻至型號對照表 (本書 2 頁起)，依數字 / 字母順序，查出其所屬位置在 13 頁中。 (b) 從該處可查到已知型號 LH0005H 之製造商代號爲 NSC，其旁之 36-15 表示此元件在技術欄中的位置爲 36 頁第 15 行，參考用。 (c) 翻到補充欄之「廠商代號、名稱和地址」(本書 488 頁起)，可查到 NSC 之全名及地址。 (d) 製造廠商的營業處可自 478 頁起查出，但本書無 NSC 之此種資料。 (e) 製造廠商的商標如 NSC 可在 486 頁查到。
3	已知：型號 - LH0005H 未知：電機特性、電路圖及外觀圖 指示： (a) 翻至型號對照表 (本書 2 頁起)，依數字 / 字母順序，查出其所屬位置在 13 頁中。 (b) 從該處可查到 36-15 之字樣，表示此元件的特性資料位於 36 頁的 15 行。 (c) 翻到該頁該行可查到 LH0005H 及其特性資料。

如何發揮本書的最大功用

3	(d) 注意最右邊兩欄所示，一為電路圖的指標，一為外觀圖的指標，LH0005H 的電路圖及外觀圖指標分別為A005及CN8a。 (e) 翻到電路圖部份（本書169頁起），利用指標A005可查到電路圖（170頁）。 (f) 翻到外觀圖部份（本書369頁起），用CN8可查到外觀圖及相關資料（412頁），其中CN8a有其特定的資料。
4	已知：型號 - LH0005H 未知：可供取代的等效型號 指示： (a) 遵循3號框的指示以得到各特性資料。 (b) 觀察和已知型號有類似電機參數的上下各型號，以決定合適的代用元件。
5	已知：軍用要求——電壓調整器，V_o 24V，V_{in} 38V_{max}，靜態電力3.6W。 未知：適合的型號 指示： (a) 遵循1號框的指示，以決定所有可能的型號，再選出前面有JAN字首的型號（99頁50行到53行）。 (b) 欲查明製造廠商，則請依6號框之指示。
6	已知：軍用型號——JAN M38510/10709CYA 未知：合格製造廠商及合用的軍用規格 指示： (a) 翻到12A，具有美國軍用規格之型號（167頁起），本例中可查到M38510/10709CYA位於168頁。 (b) 記下廠商代號及詳細規格，本例中廠商代號不詳，詳細規格為MIL-M-38510/107A。 (c) 利用廠商代號按2號框之(c)、(d)及(e)之指示可查到廠商之相關資料。
7	已知：一般元件型號 - 4558 未知：廠商代號、元件型號及產品類別 指示： (a) 翻到一般產品索引（G1頁起）。 (b) 利用一般元件型號（4558）查出所屬位置（G63頁9行至35行）。 (c) 廠商代號、元件型號及產品類別可分別在第4、3及5行中查到。

技術欄內十的乘幂倍數，符號與編碼之應用

爲能在最小的空間內，展示大量的資料，本書中的數據應用了下列的修改工具：

十的乘幂倍數

以下所示的十乘幂倍數係用在數字行中，當所測數值比行首所示的單位大甚多或小甚多時，即應用之，通常此等單位稱爲基本單位。如V（電壓）、A（安培）、S（秒）等。此等倍數及其解釋如下：

倍數 (Multipliers)						解釋 (Explanation)		
表示十的乘幂 (powers) 的字首 (prefixes) 與符號 (symbols) (由國際度量衡委員會提供，經美國國家標準局認可)						數據的數值	行首基本單位	實際表示數值
乘幂	字首	符號	乘幂	字首	符號	乘幂	字首	符號
10 ¹²	tetra	T	10	deka	da	10 ⁻⁹	nano	n
10 ⁹	giga	G	10 ⁻¹	deci	d	10 ⁻¹²	pico	p
10 ⁶	mega	M	10 ⁻²	centi	c	10 ⁻¹⁵	femto	f
10 ³	kilo	k	10 ⁻³	milli	m	10 ⁻¹⁸	atto	a
10 ²	hecto	h	10 ⁻⁶	micro	μ			

* 也可以寫成爲 0.5 而不加任何倍數

符號與編號

符號：在每一行中數字或其他地方，當數據數值與行首所示有所不同時，即當應用如非、△與S等符號。例如，當某一行首標明爲最大電功率（瓦）（Max. Power）時，若某一型的數據爲最小電功率值，則此中變化即需以一特別符號加在數值前面以作標識之用。

注意：本書所用的符號與編碼均在書後卡片中加以說明。

編號：在某些行中，應用編碼以將數據加以簡化，此等編碼可以是字母（A、B、C等）數字（1、2、3等）或二者的組合。

在型號對照表 (TYPE NO. Cross-Index) 中型號的編列方法

型號對照表中的型號編列依下列規則而排：

規則	例
規則：(1) 型號係按數字—字母順序而排列，即以數字開始（小數、分數或整數）的型號排在以英文字母開頭的型號前面。	13A01 143 1202 A147 AN127 B2000
(2) 小數及分數在整個數字前。若剩下的型號相同，則以小數開頭的型號排在分數開頭的型號前面。	25 Z 150 ¼ Z 150 ¾ M 12 Z 1 T 3
(3) 一般編列時，零皆予忽略，但若零爲唯一區分二種型號的起數時例外，此種情況下含零的型號需將零置於首位。	0112 112 0113 00115 12 P 01 AP1 AP02
(4) 集中在連號（—）或斜劃（／）前的字母，爲編列時的控制因數（Controlling Factors）。以相同數字／字母開頭而在其後爲連號或斜劃的型號是排在相同位置爲字母的型號前面。	66-0706 66M1 70/10 70A9

在技術欄 (Technial Section) 中，型號的編列方法——編列參數 (Sequencing Parameters)

在技術欄中，型號的安排主要係由每欄內所列的一般特性中，選擇出特別重要者，這些選出的特性即為編列參數。在每一欄中編列參數均不同，可由每一頁上角加以查明。下例即可幫助各位明瞭。

主要特性										編列參數										
3. OPERATIONAL AMPLIFIERS																				
參序號: 1. TOTAL VOLT. 2. MAX. GAIN. 3. CMRR. 4. CM. 5. RANGE. 6. BIAS. 7. RANGE. 8. IMP. 9. VOLT. CUR. 10. BW. 11. VOLT. CUR. 12. BW. 13. VOLT. CUR. 14. RATE. 15. CMRR. 16. M. DCKT. 17. P.E. 18. Δ-MO.																				
LINE No.	TYPE No.	POWER SUPPLY @ 25°C	INPUT CHARACTERISTICS										MIN. OUTPUT CHARACTERISTICS @ 25°C							
		1. TOT. 2. MAX. 3. DRIFT 4. GAIN 5. CMRR 6. CM 7. RANGE 8. BIAS 9. RANGE 10. IMP 11. VOLT. CUR. 12. BW 13. VOLT. CUR. 14. RATE 15. CMRR 16. M. DCKT. 17. P.E. 18. Δ-MO	1. TOT. 2. MAX. 3. DRIFT 4. GAIN 5. CMRR 6. CM 7. RANGE 8. BIAS 9. RANGE 10. IMP 11. VOLT. CUR. 12. BW 13. VOLT. CUR. 14. RATE 15. CMRR 16. M. DCKT. 17. P.E. 18. Δ-MO										1. TOT. 2. MAX. 3. DRIFT 4. GAIN 5. CMRR 6. CM 7. RANGE 8. BIAS 9. RANGE 10. IMP 11. VOLT. CUR. 12. BW 13. VOLT. CUR. 14. RATE 15. CMRR 16. M. DCKT. 17. P.E. 18. Δ-MO							

一欄內的不同型式，係由第一個編列參數，依數字或字母的順序加以表示。若有一群第一參數相同的型式，即由其第二個參數的順序來安排。此種狀況一直延續到最後一個參數為止。在每一例中，此數字即為型號本身，型號安排的最後一步是採取和型號對照表中相同的方法，如前文中所述。

下圖所示為一經簡化後的安排模型：

4 型號	特 性			
	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

最後編 第一編 第二編 並 未 第三編
列參數 列參數 列參數 編 列 列參數

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.

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

LINE No.	OPERATING TEMP. RANGE CODE	TYPE No.						
▼ - New Type ◆ - Revised Specification # - Non-JEDEC type Manufactured outside U.S.A.	\$ Both values of temp. are pos. Max. value only is indicated. Examples Of Operating Temp. Range Code: <table border="1"> <tr> <td style="text-align: center;">Min. value lies between -50° and -60°</td> <td style="text-align: center;">Max. value lies between +120°C and +130°C</td> </tr> <tr> <td colspan="2" style="text-align: center;">OR</td> </tr> <tr> <td style="text-align: center;">Both values of temp. are pos. Max. value only as indicated.</td> <td style="text-align: center;">Max. value lies between +80° and +90°C</td> </tr> </table>	Min. value lies between -50° and -60°	Max. value lies between +120°C and +130°C	OR		Both values of temp. are pos. Max. value only as indicated.	Max. value lies between +80° and +90°C	▼ - 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) ♦ - Audio driver: one or more characteristics apply for overall system (Sect. 5 only) # - Optically coupled
Min. value lies between -50° and -60°	Max. value lies between +120°C and +130°C							
OR								
Both values of temp. are pos. Max. value only as indicated.	Max. value lies between +80° and +90°C							
OUTLINE DRAWINGS								
* __ : Dual in line package style * __ T: Dual in line package style - with mounting tab	0 - 0 up to 100°C 1 - 10 up to 200°C 2 - 20 up to 300°C 3 - 30 up to 400°C 4 - 40 up to 500°C 5 - 50 up to 600°C 6 - 60 up to 700°C 7 - 70 up to 800°C 8 - 80 up to 900°C 9 - 90 up to 1000°C A - 100 up to 1100°C B - 110 up to 1200°C C - 120 up to 1300°C D - 130 up to 1400°C E - 140 up to 1500°C F - 150 up to 1600°C G - 160 up to 1700°C H - 170 up to 1800°C J - 180 up to 1900°C K - 190 up to 2000°C M - 2000°C and ABOVE							
CB: Printed circuit board CH: Chip package CN: Can type - non-JEDEC outline FP: Flat pack - non-JEDEC outline MT: Mounting tab outline MP: Molded or encapsulated package not included in other categories 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							

LINE No.	TYPE No	DIFFERENTIAL AMPLIFIERS										DIFFERENTIAL AMPLIFIERS									
		PWR SUP 25°C		RATED SPEED		OVER OPERATING TEMP		CHARACTERISTICS		MIN OUTPUT		MIN TRANSFER CHA		MIN TRANSFER CHA		MIN TRANSFER CHA					
		TOT 1 MAX		MAX VOLT. IDLE P		MAX VOLT. IDLE P		MAX VOLT. IDLE P		MAX VOLT. IDLE P		MAX VOLT. IDLE P		MAX VOLT. IDLE P		MAX VOLT. IDLE P					
3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20				

- LN-1

INTERPRETER SYMBOL & CODES

5. AUDIO AMPLIFIERS

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

5. TRANSFER CHARACTERISTICS		INPUT @ 25°C										OUTPUT @ 25°C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
LINE No.	TYPE No.	PWR SUP @ 25°C		RATED SPECS		3dB BANDWIDTH		MIN		MAX		VOLT NOISE		TEMP		MIN		MAX		MAX		MIN		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX	

- 3 ♦ - One or more Characteristics not rated at supply voltage
§ - Value not symmetrical about zero
† - Typical
- 4 Δ - Max. power diss.
† - Typical
* - Minimum
□ - Absolute max. power dissipation
§ - Pkg. power diss.
- 5 § - Useful frequency range
§ - Bandwidth 3dB
○ - Full power bandwidth
† - Typical
♦ - Test frequency
- 6 † - Typical
- 7 † - Typical
Δ - Power gain
% - Current gain
% - Differential volt. gain
* - Gain adjustable by external connection or control
○ - Open loop volt. gain
- 8 † - Typical
§ - Max. signal to noise ratio
* - Max equivalent input noise (μV rms)
○ - Max equivalent input noise (dBm)
Δ - Max. equivalent output noise (dBm)
§ - Max equivalent input noise (nV/√Hz)
* - Max. equivalent output noise voltage
- 9 † - Typical
♦ - Measured at less than rated output power
- 10 † - Typical
○ - Gain variation temperature coefficient (dB/°C)
- 11 † - Typical
Δ - Differential input
- 12 * - Minimum range for linear output
♦ - Input voltage at less than rated power RMS
Δ - RMS
† - Typical
- 13 † - Typical
Δ - Voltage level limited output
- 14 † - Typical
§ - Voltage level limited output
- 15 † - Typical
% - Output current swing (ΔmA)
♦ - Measured at higher than rated THD
Δ - Per channel

6. RF/IF AMPLIFIERS

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

LINE No.		TYPE No.		TRANSFER CHARACTERISTICS @25°C										INPUT CHAR @25°C										OUTPUT CHAR @25°C										DRAWINGS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
				PWR SUP @25°C		RATED SPECS		3 PWR GAIN		4 UN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX		MIN		MAX																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				1 TOT		2 MAXON		3 LOAD		4 SPEC		5 TUNED		6 Y21		7 Y12		8 NF		9 VOLT		10 COND		11 CAP		12 VOLT		13 COND		14 CAP		15 P.E		16 D		17 CKT		18 P.E		19 LNK		20 LNK		21 LNK		22 LNK		23 LNK		24 LNK		25 LNK		26 LNK		27 LNK		28 LNK		29 LNK		30 LNK		31 LNK		32 LNK		33 LNK		34 LNK		35 LNK		36 LNK		37 LNK		38 LNK		39 LNK		40 LNK		41 LNK		42 LNK		43 LNK		44 LNK		45 LNK		46 LNK		47 LNK		48 LNK		49 LNK		50 LNK		51 LNK		52 LNK		53 LNK		54 LNK		55 LNK		56 LNK		57 LNK		58 LNK		59 LNK		60 LNK		61 LNK		62 LNK		63 LNK		64 LNK		65 LNK		66 LNK		67 LNK		68 LNK		69 LNK		70 LNK		71 LNK		72 LNK		73 LNK		74 LNK		75 LNK		76 LNK		77 LNK		78 LNK		79 LNK		80 LNK		81 LNK		82 LNK		83 LNK		84 LNK		85 LNK		86 LNK		87 LNK		88 LNK		89 LNK		90 LNK		91 LNK		92 LNK		93 LNK		94 LNK		95 LNK		96 LNK		97 LNK		98 LNK		99 LNK		100 LNK		101 LNK		102 LNK		103 LNK		104 LNK		105 LNK		106 LNK		107 LNK		108 LNK		109 LNK		110 LNK		111 LNK		112 LNK		113 LNK		114 LNK		115 LNK		116 LNK		117 LNK		118 LNK		119 LNK		120 LNK		121 LNK		122 LNK		123 LNK		124 LNK		125 LNK		126 LNK		127 LNK		128 LNK		129 LNK		130 LNK		131 LNK		132 LNK		133 LNK		134 LNK		135 LNK		136 LNK		137 LNK		138 LNK		139 LNK		140 LNK		141 LNK		142 LNK		143 LNK		144 LNK		145 LNK		146 LNK		147 LNK		148 LNK		149 LNK		150 LNK		151 LNK		152 LNK		153 LNK		154 LNK		155 LNK		156 LNK		157 LNK		158 LNK		159 LNK		160 LNK		161 LNK		162 LNK		163 LNK		164 LNK		165 LNK		166 LNK		167 LNK		168 LNK		169 LNK		170 LNK		171 LNK		172 LNK		173 LNK		174 LNK		175 LNK		176 LNK		177 LNK		178 LNK		179 LNK		180 LNK		181 LNK		182 LNK		183 LNK		184 LNK		185 LNK		186 LNK		187 LNK		188 LNK		189 LNK		190 LNK		191 LNK		192 LNK		193 LNK		194 LNK		195 LNK		196 LNK		197 LNK		198 LNK		199 LNK		200 LNK		201 LNK		202 LNK		203 LNK		204 LNK		205 LNK		206 LNK		207 LNK		208 LNK		209 LNK		210 LNK		211 LNK		212 LNK		213 LNK		214 LNK		215 LNK		216 LNK		217 LNK		218 LNK		219 LNK		220 LNK		221 LNK		222 LNK		223 LNK		224 LNK		225 LNK		226 LNK		227 LNK		228 LNK		229 LNK		230 LNK		231 LNK		232 LNK		233 LNK		234 LNK		235 LNK		236 LNK		237 LNK		238 LNK		239 LNK		240 LNK		241 LNK		242 LNK		243 LNK		244 LNK		245 LNK		246 LNK		247 LNK		248 LNK		249 LNK		250 LNK		251 LNK		252 LNK		253 LNK		254 LNK		255 LNK		256 LNK		257 LNK		258 LNK		259 LNK		260 LNK		261 LNK		262 LNK		263 LNK		264 LNK		265 LNK		266 LNK		267 LNK		268 LNK		269 LNK		270 LNK		271 LNK		272 LNK		273 LNK		274 LNK		275 LNK		276 LNK		277 LNK		278 LNK		279 LNK		280 LNK		281 LNK		282 LNK		283 LNK		284 LNK		285 LNK		286 LNK		287 LNK		288 LNK		289 LNK		290 LNK		291 LNK		292 LNK		293 LNK		294 LNK		295 LNK		296 LNK		297 LNK		298 LNK		299 LNK		300 LNK		301 LNK		302 LNK		303 LNK		304 LNK		305 LNK		306 LNK		307 LNK		308 LNK		309 LNK		310 LNK		311 LNK		312 LNK		313 LNK		314 LNK		315 LNK		316 LNK		317 LNK		318 LNK		319 LNK		320 LNK		321 LNK		322 LNK		323 LNK		324 LNK		325 LNK		326 LNK		327 LNK		328 LNK		329 LNK		330 LNK		331 LNK		332 LNK		333 LNK		334 LNK		335 LNK		336 LNK		337 LNK		338 LNK		339 LNK		340 LNK		341 LNK		342 LNK		343 LNK		344 LNK		345 LNK		346 LNK		347 LNK		348 LNK		349 LNK		350 LNK		351 LNK		352 LNK		353 LNK		354 LNK		355 LNK		356 LNK		357 LNK		358 LNK		359 LNK		360 LNK		361 LNK		362 LNK		363 LNK		364 LNK		365 LNK		366 LNK		367 LNK		368 LNK		369 LNK		370 LNK		371 LNK		372 LNK		373 LNK		374 LNK		375 LNK		376 LNK		377 LNK		378 LNK		379 LNK		380 LNK		381 LNK		382 LNK		383 LNK		384 LNK		385 LNK		386 LNK		387 LNK		388 LNK		389 LNK		390 LNK		391 LNK		392 LNK		393 LNK		394 LNK		395 LNK		396 LNK		397 LNK		398 LNK		399 LNK		400 LNK		401 LNK		402 LNK		403 LNK		404 LNK		405 LNK		406 LNK		407 LNK		408 LNK		409 LNK		410 LNK		411 LNK		412 LNK		413 LNK		414 LNK		415 LNK		416 LNK		417 LNK		418 LNK		419 LNK		420 LNK		421 LNK		422 LNK		423 LNK		424 LNK		425 LNK		426 LNK		427 LNK		428 LNK		429 LNK		430 LNK		431 LNK		432 LNK		433 LNK		434 LNK		435 LNK		436 LNK		437 LNK		438 LNK		439 LNK		440 LNK		441 LNK		442 LNK		443 LNK		444 LNK		445 LNK		446 LNK		447 LNK		448 LNK		449 LNK		450 LNK		451 LNK		452 LNK		453 LNK		454 LNK		455 LNK		456 LNK		457 LNK		458 LNK		459 LNK		460 LNK		461 LNK		462 LNK		463 LNK		464 LNK		465 LNK		466 LNK		467 LNK		468 LNK		469 LNK		470 LNK		471 LNK		472 LNK		473 LNK		474 LNK		475 LNK		476 LNK		477 LNK		478 LNK		479 LNK		480 LNK		481 LNK		482 LNK		483 LNK		484 LNK		485 LNK		486 LNK		487 LNK		488 LNK		489 LNK		490 LNK		491 LNK		492 LNK		493 LNK		494 LNK		495 LNK		496 LNK		497 LNK		498 LNK		499 LNK		500 LNK		501 LNK		502 LNK		503 LNK		504 LNK		505 LNK		506 LNK		507 LNK		508 LNK		509 LNK		510 LNK		511 LNK		512 LNK		513 LNK		514 LNK		515 LNK		516 LNK		517 LNK		518 LNK		519 LNK		520 LNK		521 LNK		522 LNK		523 LNK		524 LNK		525 LNK		526 LNK		527 LNK		528 LNK		529 LNK		530 LNK		531 LNK		532 LNK		533 LNK		534 LNK		535 LNK		536 LNK		537 LNK		538 LNK		539 LNK		540 LNK		541 LNK		542 LNK		543 LNK		544 LNK		545 LNK		546 LNK		547 LNK		548 LNK		549 LNK		550 LNK		551 LNK		552 LNK		553 LNK		554 LNK		555 LNK		556 LNK		557 LNK		558 LNK		559 LNK		560 LNK		561 LNK		562 LNK		563 LNK		564 LNK		565 LNK		566 LNK		567 LNK		568 LNK		569 LNK		570 LNK		571 LNK		572 LNK		573 LNK		574 LNK		575 LNK		576 LNK		577 LNK		578 LNK		579 LNK		580 LNK		581 LNK		582 LNK		583 LNK		584 LNK		585 LNK		586 LNK		587 LNK		588 LNK		589 LNK		590 LNK		591 LNK		592 LNK		593 LNK		594 LNK		595 LNK		596 LNK		597 LNK		598 LNK		599 LNK		600 LNK		601 LNK		602 LNK		603 LNK		604 LNK		605 LNK		606 LNK		607 LNK		608 LNK		609 LNK		610 LNK		611 LNK		612 LNK		613 LNK		614 LNK		615 LNK		616 LNK		617 LNK		618 LNK		619 LNK		620 LNK		621 LNK		622 LNK		623 LNK		624 LNK		625 LNK		626 LNK		627 LNK		628 LNK		629 LNK		630 LNK		631 LNK		632 LNK		633 LNK		634 LNK		635 LNK		636 LNK		637 LNK		638 LNK		639 LNK		640 LNK		641 LNK		642 LNK		643 LNK		644 LNK		645 LNK		646 LNK		647 LNK		648 LNK		649 LNK		650 LNK		651 LNK		652 LNK		653 LNK		654 LNK		655 LNK		656 LNK		657 LNK		658 LNK		659 LNK		660 LNK		661 LNK		662 LNK		663 LNK		664 LNK		665 LNK		666 LNK		667 LNK		668 LNK		669 LNK		670 LNK		671 LNK		672 LNK		673 LNK		674 LNK		675 LNK		676 LNK		677 LNK		678 LNK		679 LNK		680 LNK		681 LNK		682 LNK		683 LNK		684 LNK		685 LNK		686 LNK		687 LNK		688 LNK		689 LNK		690 LNK		691 LNK		692 LNK		693 LNK		694 LNK		695 LNK		696 LNK		697 LNK		698 LNK		699 LNK		700 LNK		701 LNK		702 LNK		703 LNK		704 LNK		705 LNK		706 LNK		707 LNK		708 LNK		709 LNK		710 LNK		711 LNK		712 LNK		713 LNK		714 LNK		715 LNK		716 LNK		717 LNK		718 LNK		719 LNK		720 LNK		721 LNK		722 LNK		723 LNK		724 LNK		725 LNK		726 LNK		727 LNK		728 LNK		729 LNK		730 LNK		731 LNK		732 LNK		733 LNK		734 LNK		735 LNK		736 LNK		737 LNK		738 LNK		739 LNK		740 LNK		741 LNK		742 LNK		743 LNK		744 LNK		745 LNK		746 LNK		747 LNK		748 LNK		749 LNK		750 LNK		751 LNK		752 LNK		753 LNK		754 LNK		755 LNK		756 LNK		757 LNK		758 LNK		759 LNK		760 LNK		761 LNK		762 LNK		763 LNK		764 LNK		765 LNK		766 LNK		767 LNK		768 LNK		769 LNK		770 LNK		771 LNK		772 LNK		773 LNK		774 LNK		775 LNK		776 LNK		777 LNK		778 LNK		779 LNK		780 LNK		781 LNK		782 LNK		783 LNK		784 LNK		785 LNK		786 LNK		787 LNK		788 LNK		789 LNK		790 LNK		791 LNK		792 LNK		793 LNK		794 LNK		795 LNK		796 LNK		797 LNK		798 LNK		799 LNK		800 LNK		801 LNK		802 LNK		803 LNK		804 LNK		805 LNK		806 LNK		807 LNK		808 LNK		809 LNK		810 LNK		811 LNK		812 LNK		813 LNK		814 LNK		815 LNK		816 LNK		817 LNK		818 LNK		819 LNK		820 LNK		821 LNK		822 LNK		823 LNK		824 LNK		825 LNK		826 LNK		827 LNK		828 LNK		829 LNK		830 LNK		831 LNK		832 LNK		833 LNK		834 LNK		835 LNK		836 LNK		837 LNK		838 LNK		839 LNK		840 LNK		841 LNK		842 LNK		843 LNK		844 LNK		845 LNK		846 LNK		847 LNK		848 LNK		849 LNK		850 LNK		851 LNK		852 LNK		853 LNK		854 LNK		855 LNK		856 LNK		857 LNK		858 LNK		859 LNK		860 LNK		861 LNK		862 LNK		863 LNK		864 LNK		865 LNK		866 LNK		867 LNK		868 LNK		869 LNK		870 LNK		871 LNK		872 LNK		873 LNK		874 LNK		875 LNK		876 LNK		877 LNK		878 LNK		879 LNK		880 LNK		881 LNK		882 LNK		883 LNK		884 LNK		885 LNK		886 LNK		887 LNK		888 LNK		889 LNK		890 LNK		891 LNK		892 LNK		893 LNK		894 LNK		895 LNK		896 LNK		897 LNK		898 LNK		899 LNK		900 LNK		901 LNK		902 LNK		903 LNK		904 LNK		905 LNK		906 LNK		907 LNK		908 LNK		909 LNK		910 LNK		911 LNK		912 LNK		913 LNK		914 LNK		915 LNK		916 LNK		917 LNK		918 LNK		919 LNK		920 LNK		921 LNK		922 LNK		923 LNK		924 LNK		925 LNK		926 LNK		927 LNK		928 LNK		929 LNK		930 LNK		931 LNK		932 LNK		933 LNK		934 LNK		935 LNK			

- 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)
- 6 † - Typical
♦ - Usable freq. range
- 7 † - Typical
- 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.
□ - 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 susceptibility (mhos)

• SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS
♦ TYPE NO. SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER CARD

INTERPRETER SYMBOL & CODES

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 T.C.	CHAR. @ 25°C	E.O.	OUT. LINE	Δ-MO					
		RATED SPEC	3dB BW	4 MIN. MAX. VOLTAGE NOISE	THD	MIN. MAX. P-P RESIST	MIN. MAX. P-P RESIST	LOAD	CHAR. @ 25°C	E.O.	OUT. LINE	Δ-MO			
		(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)	(V)
•	•	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
- 5 † - Typical
Δ - Full power bandwidth
§ - Freq. for min. gain
Δ - Bandwidth less than 3dB
♦ - Test frequency
- 6 † - Typical
Δ - Bandwidth less than 3dB
- 7 † - Typical
Δ - Power gain
% - Current gain
§ - Differential volt. gain
* - Other values of gain available by external connection
§ - AGC available
② - Units
♦ - Large signal Volt. gain V/mv
- 8 † - Typical
§ - Max. signal to noise ratio
* - Max. equivalent input noise (μ Vrms)
Δ - Max. equivalent output noise (mVrms)
- 10 † - Typical
Δ - Intermodulation distortion in dB
* - Max. 2nd order distortion (- dB)
- 11 † - Typical
* - Min. range for linear output
- 12 † - Typical
Δ - Differential output available
Ø - Max. VSWR
- 13 † - Typical
Δ - Output power (W)
* - Output power (dBm)
§ - Over oper. temp.
- 14 ♦ - No load
- 15 16 † - Typical

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	ADJUSTABLE VOLT. OUT	INPUT VOLT. RANGE	MIN. LINE IN	MAX. LINE IN	MAX. POWER DISSIPATION	MAX. INPUT LINE V	MAX. OUTPUT LINE V	MAX. OUTPUT CUR.	MAX. OUTPUT LINE V	MAX. OUTPUT CUR.	MAX. OUTPUT LINE V	MAX. OUTPUT CUR.	MAX. OUTPUT LINE V
		(V)	(V)	(V)	(V)	(V)	(W)	(V)	(V)	(A)	(V)	(A)	(V)	(A)	(V)
•	•	3	4	5	6	7	8	9	10	11	12	13	14	15	16

- 3 □ - Shunt Regulator
§ - Positive and negative of this magnitude
♦ - Negative output voltage
- 4 7 * - Other fixed non-adjustable output voltage
% - Accuracy in % tolerance of value indicated in nom. volt. out column
§ - Tolerance in volts ($\pm$ of value indicated in nom. volt. out column)
♦ - Negative voltage
Δ - Positive voltage
- 6 SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS
♦ TYPE NO. SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER CARD
- 7 * - Min. input voltage (V)
Δ - Absolute Max.
- 8 § - Over entire operating range
* - Internally limited
- 9 * - Min load & Current
- 11 † - Typical
% - Percent change over entire range
§ - Over entire operating range
Δ - %/°C
* - Neg. Voltage
- 12 † - Typical
Δ - Voltage change in volts
* - Change in %/A
- 13 § - Voltage change (volts)
† - Typical
Δ - Change in %/volt
♦ - % change for max. line regulation
% - % E_0/E_1
- 14 † - Typical
Δ - Voltage change in volts
* - Change in %/A
- 15 † - Typical
Δ - Voltage change in volts
* - Change in %/A
- 16 † - Typical
Δ - Voltage change in volts
* - Change in %/A
- 17 † - Typical
Δ - Voltage change in volts
* - Change in %/A
- 18 † - Typical
Δ - Voltage change in volts
* - Change in %/A

INTERPRETER SYMBOL & CODES

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	5. VOLTAGE CHARACTERISTICS																	
		PWR SUP @ 25°C				INPUT CHARACTERISTICS				OUTPUT CHAR. @ 25°C				W/C TRANSFER T C DRAWINGS					
		RATED SPEEDS		OVER VOLTAGE TEMP. RANGE		@ 25°C		MIN OUTPUT		MAX		MIN. CHAR @ 25°C		E O		OUT-			
		1 TOT. 2 MAX		MAX VOLTAGE MAX CURRENT		MIN CM STROBE		VOLTAGE		RES.		CURR VOLT.		RESP.		M D CKT.		LINE	
		3 DRIFT 4 OFFSET		OFFSET BIAS		RANGE CURR MAX		POS NEG		OUT.		SINK GAIN		TIME		P E		Δ=MO	
		(A/V) (W)		(V/C) (V)		(A/V) (A)		(V) (V)		(V) (V)		(Ω) (A)		(S) (S)					
•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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

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

- 5 † - Typical
§ - 250°C
Δ - Over limited temperature range

- 6 † - Typical
§ - 250°C
Δ - Adjustable to zero
Δ - Over limited temp. range

- 7 † - Typical
§ - 250°C
Δ - 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
Δ - Negative
♦ - Max. output voltage at a specified output leakage current

- 12 † - Typical
§ - Positive
Δ - Max.

- 13 † - Typical

- 14 † - Typical
Δ - Absolute safe max.

- 15 SEE NOTE BELOW
† - Typical
Δ - Volt. gain V/mV
* - Units

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

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

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		OUTPUT		T C DRAWINGS	
		1. U. RATED	2. S. TOT. P	3. MAX. IMP.	4. VOLT. DRIFT	5. MAX. CURR	6. MIN. VOLT	7. M D CKT.	8. OUT. LINE
		(A/V)	(W)	(Ω)	(A/V)	(A)	(V)	(Δ/V)	Δ=MO

- 1 - Current Ampl.
2 - Log A
3 - Multi:
4 - Squaring Ampl.
5 - Funct. Gen
6 - Sin/Cos Funct. Gen.
7 - Sin/Sq/Tri Osc
8 - Div.Jer
9 - Freq. to DC Conv.
10 - Volt. Controlled Osc.
11 - Volt. to Freq. Conv.
12 - CRT Correction CKT
13 - Alarm Ckt.
14 - Analog 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.
22 - Freq. Synth.
23 - Oscillator
24 - Pulse Gen.
25 - Volt. to Current Conv.

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

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

- 5 † - Typical
* - Min. in current range in Δ mA
3 † - Typical
* - Max. offset voltage (mV)
§ - Value is not symmetrical about zero
Δ - Absolute safe max.
- - Indicates all negative range
♦ - ± Volt. range

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

- 9 † - Typical
§ - Value is not symmetrical about zero
- - Indicates all negative range
* - ± Volt Range

13 SEE NEXT PAGE

• SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

♦ TYPE NO. SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER CARD

INTERPRETER SYMBOL & CODES

11. POWER SUPPLIES

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

LINE No.	TYPE No.	TYPE	SYMBOL	DRAWINGS	GENERAL DESCRIPTION
		U E O S M D C K T. F E P E		OUT. LINE Δ-MO	

50. AC to DC power supply
52. DC to DC power supply

12. MISCELLANEOUS

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

LINE No.	TYPE No.	TYPE	SYMBOL	DRAWINGS	GENERAL DESCRIPTION
		U E O S M D C K T. F E P E		OUT. LINE Δ-MO	

54. Transistor array
56. Ring modulator
58. Temp. controlled diff. pair
59. Special Subsystem
60. Diode array
61. General transistor stage
62. Phase control circuit
63. Reference amplifiers & diodes
64. Voltage or current stabilizers & limiters (temp controlled)
65. Analog adder/summing amp
66. (See 67)

67. TV circuits
68. Audio signal processor (stereo & 4 channel Circuits)
69. AM/FM RF-IF circuit
70. FM multiplexer
71. Modulator/demodulator
72. AFC circuit
73. AGC circuit
74. Mixer
75. Phase lock loop
76. Active filters
77. Channel Scanner/Selector/Display
78. Synchro devices

79. Programmable gain amplifiers
80. Pulse width mod.
81. Motor speed controller
82. AM receiver
83. FM Receiver
84. Tone/freq. decoder
85. Automotive Application
86. Tone/Freq. encoder
87. Multi-function device
88. Hall effect switch
89. Phase Comparators

• SEE SYMBOLS AND CODES COMMON TO ALL TECHNICAL SECTIONS

♦ TYPE No. SYMBOLS AND CODES AT TOP OF FIRST INTERPRETER CARD

7 13 GENERAL DESCRIPTION COMMON TO SECTIONS 10., 11. & 12.

- | | | |
|---|--|--|
| <p> ☒ - Selected ranges available
 Δ - Maximum
 $\ast$ - Minimum
 $\uparrow$ - Typical
 $\oslash$ - Adjustable
 $\#$ - Over entire temperature range
 $\\$ - Value is not symmetrical about zero
 $\diamond$ - 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
 $\%BW$ - Bandwidth for 1% accuracy
 Acc - Accuracy
 Adj - Adjustable
 $Antig$ - Antilogarithmic function
 BP - Bandpass
 BV_{cbo} - Breakdown voltage collector-to-base; emitter open-circuit
 BV_{ceo} - Breakdown voltage; collector-to-emitter; base open-circuit
 BV_{cer} - Breakdown voltage; collector-to-emitter; base-to-emitter resistance specified
 BV_{ebo} - Breakdown voltage; emitter-to-base; collector open-circuit
 BW 3db - Bandwidth </p> | <p> C_d - 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.
 I_i - Current gain
 G_v - 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 I_{og} and $antilog$ function
 No - Output noise
 P_d - Total power dissipation
 PIV - Peak Inverse Voltage
 PLL - Phase lock loop
 P_o - 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
 $SL Ring$ - Slope range
 SR - Slew rate
 TC - Temperature coefficient
 Trn - Number of transistors
 Trr - Reverse recovery time
 V_{be} - Base-to-emitter voltage, DC
 V_{cb} - Collector-to-base voltage, DC
 V_{ce} - Collector-to-emitter voltage, DC
 V_f - Forward voltage
 V_i - Input voltage
 V_o - Output voltage
 V_{os} - Offset voltage
 V_{ref} - Reference voltage
 Zz - Zener impedance </p> |
|---|--|--|

GENERIC PRODUCT INDEX

In Order Of "Generic" Type 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	0001	NH0001.883	NSC	OP AMP	82-72	111	0002	HX0002	HAL	SPECIAL	110-8				
2	0001	NH0001C	NSC	OP AMP	82-73	112	0002	HX0002C	HAL	SPECIAL	110-9				
3	001	CJCA001	SOD	VOLT REG	81-60	101	002	CJCA002	PMI	VOLT REG	110-10				
4	001	CJCA001	SOD	VOLT REG	81-60	101	002	CJCA002	PMI	VOLT REG	110-11				
5	001	ET001.004	PMI	PW SUPPLY	149-31	115	002	REF02AJ	PMI	MISC	91-37				
6	001	ET001.004	PMI	PW SUPPLY	149-31	116	002	REF02CJ	PMI	MISC	180-109				
7	001	ET001.004	PMI	PW SUPPLY	149-32	117	002	REF02FJ	PMI	MISC	181-1				
8	001	ET001.004	PMI	PW SUPPLY	149-32	118	002	REF02GJ	PMI	MISC	181-2				
9	001	REF01AJ	PMI	MISC	180-101	119	002	REF02HJ	PMI	MISC	181-3				
10	001	REF01CJ	PMI	MISC	180-101	120	002	REF02IJ	PMI	MISC	181-4				
11	001	REF01FJ	PMI	MISC	180-103	121	002	REF02JF	PMI	MISC	181-5				
12	001	REF01HJ	PMI	MISC	180-104	122	002	REF02KF	PMI	MISC	181-6				
13	001	REF01EJ	PMI	MISC	180-105	123	002	REF02LJ	PMI	MISC	181-7				
14	001	REF01DJ	PMI	MISC	180-106	124	002	REF02MJ	PMI	MISC	181-8				
15	001	REF01GJ	PMI	MISC	180-107	125	002	REF02NJ	PMI	MISC	181-9				
16	001	REF01IJ	PMI	MISC	180-108	126	002	REF02OJ	PMI	MISC	181-10				
17	001	REF01KJ	PMI	MISC	180-109	127	002	REF02PJ	PMI	MISC	181-11				
18	001	REF01LJ	PMI	MISC	180-110	128	002	REF02QJ	PMI	MISC	181-12				
19	001	REF01MJ	PMI	MISC	180-111	129	002	REF02RJ	PMI	MISC	181-13				
20	001	REF01NJ	PMI	MISC	180-112	130	002	REF02SJ	PMI	MISC	181-14				
21	001	REF01OJ	PMI	MISC	180-113	131	002	REF02TJ	PMI	MISC	181-15				
22	001	REF01PJ	PMI	MISC	180-114	132	002	REF02UJ	PMI	MISC	181-16				
23	001	REF01QJ	PMI	MISC	180-115	133	002	REF02VJ	PMI	MISC	181-17				
24	001	REF01RJ	PMI	MISC	180-116	134	002	REF02WJ	PMI	MISC	181-18				
25	001	REF01SJ	PMI	MISC	180-117	135	002	REF02XJ	PMI	MISC	181-19				
26	001	REF01TJ	PMI	MISC	180-118	136	002	REF02YJ	PMI	MISC	181-20				
27	001	REF01UJ	PMI	MISC	180-119	137	002	REF02ZJ	PMI	MISC	181-21				
28	001	REF01VJ	PMI	MISC	180-120	138	002	REF02AA	PMI	MISC	181-22				
29	001	REF01WJ	PMI	MISC	180-121	139	002	REF02AB	PMI	MISC	181-23				
30	001	REF01XJ	PMI	MISC	180-122	140	002	REF02AC	PMI	MISC	181-24				
31	001	REF01YJ	PMI	MISC	180-123	141	002	REF02AD	PMI	MISC	181-25				
32	001	REF01ZJ	PMI	MISC	180-124	142	002	REF02AE	PMI	MISC	181-26				
33	001	REF01AA	PMI	MISC	180-125	143	002	REF02AF	PMI	MISC	181-27				
34	001	REF01AB	PMI	MISC	180-126	144	002	REF02AG	PMI	MISC	181-28				
35	001	REF01AC	PMI	MISC	180-127	145	002	REF02AH	PMI	MISC	181-29				
36	001	REF01AD	PMI	MISC	180-128	146	002	REF02AI	PMI	MISC	181-30				
37	001	REF01AE	PMI	MISC	180-129	147	002	REF02AJ	PMI	MISC	181-31				
38	001	REF01AF	PMI	MISC	180-130	148	002	REF02AK	PMI	MISC	181-32				
39	001	REF01AG	PMI	MISC	180-131	149	002	REF02AL	PMI	MISC	181-33				
40	001	REF01AH	PMI	MISC	180-132	150	002	REF02AM	PMI	MISC	181-34				
41	001	REF01AI	PMI	MISC	180-133	151	002	REF02AN	PMI	MISC	181-35				
42	001	REF01AJ	PMI	MISC	180-134	152	002	REF02AO	PMI	MISC	181-36				
43	001	REF01AK	PMI	MISC	180-135	153	002	REF02AP	PMI	MISC	181-37				
44	001	REF01AL	PMI	MISC	180-136	154	002	REF02AQ	PMI	MISC	181-38				
45	001	REF01AM	PMI	MISC	180-137	155	002	REF02AR	PMI	MISC	181-39				
46	001	REF01AN	PMI	MISC	180-138	156	002	REF02AS	PMI	MISC	181-40				
47	001	REF01AO	PMI	MISC	180-139	157	002	REF02AT	PMI	MISC	181-41				
48	001	REF01AP	PMI	MISC	180-140	158	002	REF02AU	PMI	MISC	181-42				
49	001	REF01AQ	PMI	MISC	180-141	159	002	REF02AV	PMI	MISC	181-43				
50	001	REF01AR	PMI	MISC	180-142	160	002	REF02AW	PMI	MISC	181-44				
51	001	REF01AS	PMI	MISC	180-143	161	002	REF02AX	PMI	MISC	181-45				
52	001	REF01AT	PMI	MISC	180-144	162	002	REF02AY	PMI	MISC	181-46				
53	001	REF01AU	PMI	MISC	180-145	163	002	REF02AZ	PMI	MISC	181-47				
54	001	REF01AV	PMI	MISC	180-146	164	002	REF02BA	PMI	MISC	181-48				
55	001	REF01AW	PMI	MISC	180-147	165	002	REF02BB	PMI	MISC	181-49				
56	001	REF01AX	PMI	MISC	180-148	166	002	REF02BC	PMI	MISC	181-50				
57	001	REF01AY	PMI	MISC	180-149	167	002	REF02BD	PMI	MISC	181-51				
58	001	REF01AZ	PMI	MISC	180-150	168	002	REF02BE	PMI	MISC	181-52				
59	001	REF01BA	PMI	MISC	180-151	169	002	REF02BF	PMI	MISC	181-53				
60	001	REF01BB	PMI	MISC	180-152	170	002	REF02BG	PMI	MISC	181-54				
61	001	REF01BC	PMI	MISC	180-153	171	002	REF02BH	PMI	MISC	181-55				
62	001	REF01BD	PMI	MISC	180-154	172	002	REF02BI	PMI	MISC	181-56				
63	001	REF01BE	PMI	MISC	180-155	173	002	REF02BJ	PMI	MISC	181-57				
64	001	REF01BF	PMI	MISC	180-156	174	002	REF02BK	PMI	MISC	181-58				
65	001	REF01BG	PMI	MISC	180-157	175	002	REF02BL	PMI	MISC	181-59				
66	001	REF01BH	PMI	MISC	180-158	176	002	REF02BM	PMI	MISC	181-60				
67	001	REF01BI	PMI	MISC	180-159	177	002	REF02BN	PMI	MISC	181-61				
68	001	REF01BJ	PMI	MISC	180-160	178	002	REF02BO	PMI	MISC	181-62				
69	001	REF01BK	PMI	MISC	180-161	179	002	REF02BP	PMI	MISC	181-63				
70	001	REF01BL	PMI	MISC	180-162	180	002	REF02BQ	PMI	MISC	181-64				
71	001	REF01BM	PMI	MISC	180-163	181	002	REF02BR	PMI	MISC	181-65				
72	001	REF01BN	PMI	MISC	180-164	182	002	REF02BS	PMI	MISC	181-66				
73	001	REF01BO	PMI	MISC	180-165	183	002	REF02BT	PMI	MISC	181-67				
74	001	REF01BP	PMI	MISC	180-166	184	002	REF02BU	PMI	MISC	181-68				
75	001	REF01BQ	PMI	MISC	180-167	185	002	REF02BV	PMI	MISC	181-69				
76	001	REF01BR	PMI	MISC	180-168	186	002	REF02BW	PMI	MISC	181-70				
77	001	REF01BS	PMI	MISC	180-169	187	002	REF02BX	PMI	MISC	181-71				
78	001	REF01BT	PMI	MISC	180-170	188	002	REF02BY	PMI	MISC	181-72				
79	001	REF01BU	PMI	MISC	180-171	189	002	REF02BZ	PMI	MISC	181-73				
80	001	REF01BV	PMI	MISC	180-172	190	002	REF02CA	PMI	MISC	181-74				
81	001	REF01BW	PMI	MISC	180-173	191	002	REF02CB	PMI	MISC	181-75				
82	001	REF01BX	PMI	MISC	180-174	192	002	REF02CC	PMI	MISC	181-76				
83	001	REF01BY	PMI	MISC	180-175	193	002	REF02CD	PMI	MISC	181-77				
84	001	REF01BZ	PMI	MISC	180-176	194	002	REF02CE	PMI	MISC	181-78				
85	001	REF01CA	PMI	MISC	180-177	195	002	REF02CF	PMI	MISC	181-79				
86	001	REF01CB	PMI	MISC	180-178	196	002	REF02CG	PMI	MISC	181-80				
87	001	REF01CC	PMI	MISC	180-179	197	002	REF02CH	PMI	MISC	181-81				
88	001	REF01CD	PMI	MISC	180-180	198	002	REF02CI	PMI	MISC	181-82				
89	001	REF01CE	PMI	MISC	180-181	199	002	REF02CJ	PMI	MISC	181-83				
90	001	REF01CF	PMI	MISC	180-182	200	002	REF02CK	PMI	MISC	181-84				
91	001	REF01CG	PMI	MISC	180-183	201	002	REF02CL	PMI	MISC	181-85				
92	001	REF01CH	PMI	MISC	180-184	202	002	REF02CM	PMI	MISC	181-86				
93	001	REF01CI	PMI	MISC	180-185	203	002	REF02CN	PMI	MISC	181-87				
94	001	REF01CJ	PMI	MISC	180-186	204	002	REF02CO	PMI	MISC	181-88				
95	001	REF01CK	PMI	MISC	180-187	205	002	REF02CP	PMI	MISC	181-89				
96	001	REF01CL	PMI	MISC	180-188	206	002	REF02CQ	PMI	MISC	181-90				
97	001	REF01CM	PMI	MISC	180-189	207	002	REF02CR	PMI	MISC	181-91				
98	001	REF01CN	PMI	MISC	180-190	208	002	REF02CS	PMI	MISC	181-92				
99	001	REF01CO	PMI	MISC	180-191	209	002	REF02CT	PMI	MISC	181-93				
100	001	REF01CP	PMI	MISC	180-192	210	002	REF02CU	PMI	MISC	181-94				
101	001	REF01CQ	PMI	MISC	180-193	211	002	REF							

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

LINE NO.	1	GENERIC NO	2	MANUFACTURER NO	MFR CODE	PRODUCT CLASS	PAGE & LINE	LINE NO.	1	GENERIC NO	2	MANUFACTURER NO	MFR CODE	PRODUCT CLASS	PAGE & LINE
2	03		03	OP03CJ	PMI	OP AMP	44-2	111	05	OP05AJ	PMI	OP AMP	46-51		
3	03		03	OP03DK	PMI	OP AMP	44-50	112	05	OP05CJ	PMI	OP AMP	48-51		
4	03		03	OP03DY	PMI	OP AMP	44-51	113	05	OP05CJ	PMI	OP AMP	48-52		
5	03		03	OP03EK	PMI	OP AMP	39-16	114	05	OP05CJ	PMI	OP AMP	48-53		
6	03		03	OP03EJ	PMI	OP AMP	39-16	115	05	OP05EJ	PMI	OP AMP	46-58		
7	03		03	OP03K	PMI	OP AMP	44-3	116	05	OP05EJ	PMI	OP AMP	46-59		
8	03		03	OP03L	PMI	OP AMP	44-3	117	05	OP05EJ	PMI	OP AMP	46-60		
9	03		03	OP03M	PMI	OP AMP	44-3	118	05	OP05EJ	PMI	OP AMP	46-61		
10	03		03	OP03N	PMI	OP AMP	44-3	119	05	OP05EJ	PMI	OP AMP	46-62		
11	03		03	OP03O	PMI	OP AMP	44-3	120	05	OP05EJ	PMI	OP AMP	46-63		
12	03		03	OP03P	PMI	OP AMP	44-3	121	05	OP05EJ	PMI	OP AMP	46-64		
13	03		03	OP03Q	PMI	OP AMP	44-3	122	05	OP05EJ	PMI	OP AMP	46-65		
14	03		03	OP03R	PMI	OP AMP	44-3	123	05	OP05EJ	PMI	OP AMP	46-66		
15	03		03	OP03S	PMI	OP AMP	44-3	124	05	OP05EJ	PMI	OP AMP	46-67		
16	03		03	OP03T	PMI	OP AMP	44-3	125	05	OP05EJ	PMI	OP AMP	46-68		
17	03		03	OP03U	PMI	OP AMP	44-3	126	05	OP05EJ	PMI	OP AMP	46-69		
18	03		03	OP03V	PMI	OP AMP	44-3	127	05	OP05EJ	PMI	OP AMP	46-70		
19	03		03	OP03W	PMI	OP AMP	44-3	128	05	OP05EJ	PMI	OP AMP	46-71		
20	03		03	OP03X	PMI	OP AMP	44-3	129	05	OP05EJ	PMI	OP AMP	46-72		
21	03		03	OP03Y	PMI	OP AMP	44-3	130	05	OP05EJ	PMI	OP AMP	46-73		
22	03		03	OP03Z	PMI	OP AMP	44-3	131	05	OP05EJ	PMI	OP AMP	46-74		
23	03		03	OP03A	PMI	OP AMP	44-3	132	05	OP05EJ	PMI	OP AMP	46-75		
24	03		03	OP03B	PMI	OP AMP	44-3	133	05	OP05EJ	PMI	OP AMP	46-76		
25	03		03	OP03C	PMI	OP AMP	44-3	134	05	OP05EJ	PMI	OP AMP	46-77		
26	03		03	OP03D	PMI	OP AMP	44-3	135	05	OP05EJ	PMI	OP AMP	46-78		
27	03		03	OP03E	PMI	OP AMP	44-3	136	05	OP05EJ	PMI	OP AMP	46-79		
28	03		03	OP03F	PMI	OP AMP	44-3	137	05	OP05EJ	PMI	OP AMP	46-80		
29	03		03	OP03G	PMI	OP AMP	44-3	138	05	OP05EJ	PMI	OP AMP	46-81		
30	03		03	OP03H	PMI	OP AMP	44-3	139	05	OP05EJ	PMI	OP AMP	46-82		
31	03		03	OP03I	PMI	OP AMP	44-3	140	05	OP05EJ	PMI	OP AMP	46-83		
32	03		03	OP03J	PMI	OP AMP	44-3	141	05	OP05EJ	PMI	OP AMP	46-84		
33	03		03	OP03K	PMI	OP AMP	44-3	142	05	OP05EJ	PMI	OP AMP	46-85		
34	03		03	OP03L	PMI	OP AMP	44-3	143	05	OP05EJ	PMI	OP AMP	46-86		
35	03		03	OP03M	PMI	OP AMP	44-3	144	05	OP05EJ	PMI	OP AMP	46-87		
36	03		03	OP03N	PMI	OP AMP	44-3	145	05	OP05EJ	PMI	OP AMP	46-88		
37	03		03	OP03O	PMI	OP AMP	44-3	146	05	OP05EJ	PMI	OP AMP	46-89		
38	03		03	OP03P	PMI	OP AMP	44-3	147	05	OP05EJ	PMI	OP AMP	46-90		
39	03		03	OP03Q	PMI	OP AMP	44-3	148	05	OP05EJ	PMI	OP AMP	46-91		
40	03		03	OP03R	PMI	OP AMP	44-3	149	05	OP05EJ	PMI	OP AMP	46-92		
41	03		03	OP03S	PMI	OP AMP	44-3	150	05	OP05EJ	PMI	OP AMP	46-93		
42	03		03	OP03T	PMI	OP AMP	44-3	151	05	OP05EJ	PMI	OP AMP	46-94		
43	03		03	OP03U	PMI	OP AMP	44-3	152	05	OP05EJ	PMI	OP AMP	46-95		
44	03		03	OP03V	PMI	OP AMP	44-3	153	05	OP05EJ	PMI	OP AMP	46-96		
45	03		03	OP03W	PMI	OP AMP	44-3	154	05	OP05EJ	PMI	OP AMP	46-97		
46	03		03	OP03X	PMI	OP AMP	44-3	155	05	OP05EJ	PMI	OP AMP	46-98		
47	03		03	OP03Y	PMI	OP AMP	44-3	156	05	OP05EJ	PMI	OP AMP	46-99		
48	03		03	OP03Z	PMI	OP AMP	44-3	157	05	OP05EJ	PMI	OP AMP	46-100		
49	03		03	OP03A	PMI	OP AMP	44-3	158	05	OP05EJ	PMI	OP AMP	46-101		
50	03		03	OP03B	PMI	OP AMP	44-3	159	05	OP05EJ	PMI	OP AMP	46-102		
51	03		03	OP03C	PMI	OP AMP	44-3	160	05	OP05EJ	PMI	OP AMP	46-103		
52	03		03	OP03D	PMI	OP AMP	44-3	161	05	OP05EJ	PMI	OP AMP	46-104		
53	03		03	OP03E	PMI	OP AMP	44-3	162	05	OP05EJ	PMI	OP AMP	46-105		
54	03		03	OP03F	PMI	OP AMP	44-3	163	05	OP05EJ	PMI	OP AMP	46-106		
55	03		03	OP03G	PMI	OP AMP	44-3	164	05	OP05EJ	PMI	OP AMP	46-107		
56	03		03	OP03H	PMI	OP AMP	44-3	165	05	OP05EJ	PMI	OP AMP	46-108		
57	03		03	OP03I	PMI	OP AMP	44-3	166	05	OP05EJ	PMI	OP AMP	46-109		
58	03		03	OP03J	PMI	OP AMP	44-3	167	05	OP05EJ	PMI	OP AMP	46-110		
59	03		03	OP03K	PMI	OP AMP	44-3	168	05	OP05EJ	PMI	OP AMP	46-111		
60	03		03	OP03L	PMI	OP AMP	44-3	169	05	OP05EJ	PMI	OP AMP	46-112		
61	03		03	OP03M	PMI	OP AMP	44-3	170	05	OP05EJ	PMI	OP AMP	46-113		
62	03		03	OP03N	PMI	OP AMP	44-3	171	05	OP05EJ	PMI	OP AMP	46-114		
63	03		03	OP03O	PMI	OP AMP	44-3	172	05	OP05EJ	PMI	OP AMP	46-115		
64	03		03	OP03P	PMI	OP AMP	44-3	173	05	OP05EJ	PMI	OP AMP	46-116		
65	03		03	OP03Q	PMI	OP AMP	44-3	174	05	OP05EJ	PMI	OP AMP	46-117		
66	03		03	OP03R	PMI	OP AMP	44-3	175	05	OP05EJ	PMI	OP AMP	46-118		
67	03		03	OP03S	PMI	OP AMP	44-3	176	05	OP05EJ	PMI	OP AMP	46-119		
68	03		03	OP03T	PMI	OP AMP	44-3	177	05	OP05EJ	PMI	OP AMP	46-120		
69	03		03	OP03U	PMI	OP AMP	44-3	178	05	OP05EJ	PMI	OP AMP	46-121		
70	03		03	OP03V	PMI	OP AMP	44-3	179	05	OP05EJ	PMI	OP AMP	46-122		
71	03		03	OP03W	PMI	OP AMP	44-3	180	05	OP05EJ	PMI	OP AMP	46-123		
72	03		03	OP03X	PMI	OP AMP	44-3	181	05	OP05EJ	PMI	OP AMP	46-124		
73	03		03	OP03Y	PMI	OP AMP	44-3	182	05	OP05EJ	PMI	OP AMP	46-125		
74	03		03	OP03Z	PMI	OP AMP	44-3	183	05	OP05EJ	PMI	OP AMP	46-126		
75	03		03	OP03A	PMI	OP AMP	44-3	184	05	OP05EJ	PMI	OP AMP	46-127		
76	03		03	OP03B	PMI	OP AMP	44-3	185	05	OP05EJ	PMI	OP AMP	46-128		
77	03		03	OP03C	PMI	OP AMP	44-3	186	05	OP05EJ	PMI	OP AMP	46-129		
78	03		03	OP03D	PMI	OP AMP	44-3	187	05	OP05EJ	PMI	OP AMP	46-130		
79	03		03	OP03E	PMI	OP AMP	44-3	188	05	OP05EJ	PMI	OP AMP	46-131		
80	03		03	OP03F	PMI	OP AMP	44-3	189	05	OP05EJ	PMI	OP AMP	46-132		
81	03		03	OP03G	PMI	OP AMP	44-3	190	05	OP05EJ	PMI	OP AMP	46-133		
82	03		03	OP03H	PMI	OP AMP	44-3	191	05	OP05EJ	PMI	OP AMP	46-134		
83	03		03	OP03I	PMI	OP AMP	44-3	192	05	OP05EJ	PMI	OP AMP	46-135		
84	03		03	OP03J	PMI	OP AMP	44-3	193	05	OP05EJ	PMI	OP AMP	46-136		
85	03		03	OP03K	PMI	OP AMP	44-3	194	05	OP05EJ	PMI	OP AMP	46-137		
86	03		03	OP03L	PMI	OP AMP	44-3	195	05	OP05EJ	PMI	OP AMP	46-138		
87	03		03	OP03M	PMI	OP AMP	44-3	196	05	OP05EJ	PMI	OP AMP	46-139		
88	03		03	OP03N	PMI	OP AMP	44-3	197	05	OP05EJ	PMI	OP AMP	46-140		
89	03		03	OP03O	PMI	OP AMP	44-3	198	05	OP05EJ	PMI	OP AMP	46-141		
90	03		03	OP03P	PMI	OP AMP	44-3	199	05	OP05EJ	PMI	OP AMP	46-142		
91	03		03	OP03Q	PMI	OP AMP	44-3	200	05	OP05EJ	PMI	OP AMP	46-143		
92	03		03	OP03R	PMI	OP AMP	44-3	201	05	OP05EJ	PMI	OP AMP	46-144		
93	03		03	OP03S	PMI	OP AMP	44-3	202	05	OP05EJ	PMI	OP AMP	46-145		
94	03		03	OP03T	PMI	OP AMP	44-3	203	05	OP05EJ	PMI	OP AMP	46-146		
95	03		03	OP03U	PMI	OP AMP	44-3	204	05	OP05EJ	PMI	OP AMP	46-147		
96	03		03	OP03V	PMI	OP AMP	44-3	205	05	OP05EJ	PMI	OP AMP	46-148		
97	03		03	OP03W	PMI	OP AMP	44-3	206	05	OP05EJ	PMI	OP AMP	46-149		
98	03		03	OP03X	PMI	OP AMP	44-3	207	05	OP05EJ	PMI	OP AMP	46-150		
99	03		03	OP03Y	PMI	OP AMP	44-3	208	05	OP05EJ	PMI	OP AMP	46-151		
100	03		03	OP03Z	PMI	OP AMP	44-3	209	05	OP05EJ	PMI	OP AMP	46-152		
101	03		03	OP03A	PMI	OP AMP	44-3	210	05	OP05EJ	PMI	OP AMP	46-153		
102	03		03	OP03B	PMI	OP AMP	44-3	211	0						

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

LINE NO	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT	PAGE & LINE	LINE NO	GENERIC	MANUFACTURER	MFR	PRODUCT

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	07	OP07CP	PMI	OP AMP	48-28	111	10	F10DA10	MIA	PW SUPPLY	141-21
2	07	OP07CY	PMI	OP AMP	48-29	112	10	F10DA25	MIA	PW SUPPLY	141-22
3	07	OP07DJ	PMI	OP AMP	46-37	113	10	F10DB05	MIA	PW SUPPLY	141-23
4	07	OP07EJ	PMI	OP AMP	46-39	114	10	F10DA50	MIA	PW SUPPLY	141-24
5	07	OP07EP	PMI	OP AMP	46-40	115	10	F10SB25	MIA	PW SUPPLY	141-25
6	07	OP07FJ	PMI	OP AMP	46-41	116	10	OP10AY	PMI	OP AMP	43-26
7	07	OP07JJ	PMI	OP AMP	46-43	117	10	OP10CY	PMI	OP AMP	43-27
8	07	OP07KJ	PMI	OP AMP	46-44	118	10	OP10EY	PMI	OP AMP	46-71
9	07	OP07LJ	PMI	OP AMP	46-45	119	10	OP10FY	PMI	OP AMP	45-73
10	07	PA07A	AMT	OP SUPPLY	88-48	120	10	PA10	AMT	OP AMP	68-51
11	07	PA07B	ACD	PW SUPPLY	136-32	121	011	PA10A	ZEL	SPECIAL	110-20
12	07	7E34A	ACD	PW SUPPLY	136-33	122	10	B10	ACD	PW SUPPLY	136-50
13	07	7E45	ACD	PW SUPPLY	136-34	123	011	CUSE011	SODI	VOLT REG	97-47
14	07	7E60	ACD	PW SUPPLY	136-35	124	10	11E22A	ACD	PW SUPPLY	136-52
15	07	7E115	WJC	WIDEBD AMP	39-36	125	11	11E35	ACD	PW SUPPLY	136-53
16	07	WJA7	WJC	MISC	163-58	126	11	11E60	ACD	PW SUPPLY	136-54
17	07	WJ57	WJC	MISC	163-57	127	11	11E100	ACD	PW SUPPLY	136-55
18	07	WJ57C	WJC	MISC	163-57	128	11	WJA11	WJC	WIDEBD AMP	77-85
19	07	WJ57	WJC	MISC	163-57	129	11	WJA11-1	WJC	WIDEBD AMP	77-86
20	008	008A1	CPD	OP AMP	53-56	130	11	WJA11-2	WJC	WIDEBD AMP	77-87
21	008	008A2	CPD	OP AMP	54-7	131	11	WJDA11	WJC	WIDEBD AMP	78-4
22	008	008B1	CPD	OP AMP	54-40	132	11	LM11C	NSC	OP AMP	67-26
23	008	008B2	CPD	OP AMP	54-61	133	11	LM11CD	NSC	OP AMP	67-27
24	008	008B3	CPD	OP AMP	54-75	134	11	LM11CLH	NSC	OP AMP	67-28
25	008	CJCA008	SODI	VOLT REG	111-87	135	11	LM11CLM-14	NSC	OP AMP	67-29
26	008	HC008-1	TRA	PW SUPPLY	149-42	136	11	LM11CN	NSC	OP AMP	67-30
27	008	HC008-2	TRA	PW SUPPLY	149-43	137	11	LM11CN-14	NSC	OP AMP	67-31
28	008	HC008-1	TRA	PW SUPPLY	149-73	138	11	LM11CN	NSC	OP AMP	67-32
29	008	HC008-2	TRA	PW SUPPLY	149-73	139	11	LM11CN-14	NSC	OP AMP	67-33
30	008	HC008-1	TRA	PW SUPPLY	149-102	140	11	LM11H	NSC	OP AMP	67-34
31	008	HC008-2	TRA	PW SUPPLY	149-103	141	11	LM11H	NSC	OP AMP	67-35
32	008	OP08A1	PMI	OP AMP	37-71	142	11	OP11AY	PMI	OP AMP	51-81
33	008	OP08B1	PMI	OP AMP	37-71	143	11	OP11BY	PMI	OP AMP	51-82
34	008	OP08C1	PMI	OP AMP	38-23	144	11	OP11EY	PMI	OP AMP	51-78
35	008	OP08D1	PMI	OP AMP	38-23	145	11	OP11FY	PMI	OP AMP	51-79
36	008	OP08FJ	PMI	OP AMP	37-66	147	11	OP11FY	PMI	OP AMP	51-80
37	008	OP08G1	PMI	OP AMP	37-66	148	11	PA11	BUS	OP AMP	88-27
38	008	OP08GP	PMI	OP AMP	38-20	149	11	UA11	MISC	BUB	165-44
39	008	PA08	AMT	OP AMP	68-78	150	11	CJSE012	SODI	VOLT REG	97-48
40	008	PA08A	ACD	PW SUPPLY	136-38	151	012	HC012-1	TRA	PW SUPPLY	149-49
41	008	RE15	ACD	PW SUPPLY	136-37	152	11	HC012-2	TRA	PW SUPPLY	149-50
42	008	RE30A	ACD	PW SUPPLY	136-38	153	012	HC012-2	TRA	PW SUPPLY	149-51
43	008	RE70	ACD	PW SUPPLY	136-39	154	012	HC012-2	TRA	PW SUPPLY	149-52
44	008	RE110	ACD	PW SUPPLY	136-40	155	012	HC012-2	TRA	PW SUPPLY	149-53
45	008	ST8	MIA	PW SUPPLY	141-18	156	012	HC012-2	TRA	PW SUPPLY	149-54
46	008	WJA6	WJC	WIDEBD AMP	79-84	157	012	HC012-2	TRA	PW SUPPLY	149-55
47	008	F80A30	MIA	PW SUPPLY	141-18	158	012	HC012-2	TRA	PW SUPPLY	149-56
48	008	WJA6	MIA	PW SUPPLY	141-19	159	012	HC012-2	TRA	PW SUPPLY	149-57
49	008	F85B35	MIA	PW SUPPLY	141-20	160	12	V12A12-15	RLB	PW SUPPLY	152-86
50	008	CJSE008	SODI	VOLT REG	111-87	161	12	V12A15-15	RLB	PW SUPPLY	152-87
51	008	HC008-1	TRA	PW SUPPLY	149-42	162	12	V12B15-15	RLB	PW SUPPLY	152-88
52	008	HC008-2	TRA	PW SUPPLY	149-43	163	12	V12B15-15	RLB	PW SUPPLY	152-89
53	008	HC008-1	TRA	PW SUPPLY	149-73	164	12	V12B15-15	RLB	PW SUPPLY	152-90
54	008	HC008-2	TRA	PW SUPPLY	149-73	165	12	V12B15-15	RLB	PW SUPPLY	152-91
55	008	HC008-1	TRA	PW SUPPLY	149-102	166	12	V12B15-15	RLB	PW SUPPLY	152-92
56	008	HC008-2	TRA	PW SUPPLY	149-103	167	12	V12B15-15	RLB	PW SUPPLY	152-93
57	008	OP09A1	PMI	OP AMP	51-80	168	12	V12B15-15	RLB	PW SUPPLY	152-94
58	008	OP09B1	PMI	OP AMP	51-80	169	12	V12B15-15	RLB	PW SUPPLY	152-95
59	008	OP09C1	PMI	OP AMP	51-80	170	12	V12B15-15	RLB	PW SUPPLY	152-96
60	008	OP09EY	PMI	OP AMP	51-80	171	12	V12B15-15	RLB	PW SUPPLY	152-97
61	008	OP09FJ	PMI	OP AMP	51-80	172	12	V12B15-15	RLB	PW SUPPLY	152-98
62	008	OP09GP	PMI	OP AMP	51-80	173	12	V12B15-15	RLB	PW SUPPLY	152-99
63	008	PA09	AMT	OP AMP	68-78	174	12	V12B15-15	RLB	PW SUPPLY	152-100
64	008	PA09A	ACD	PW SUPPLY	136-38	175	12	V12B15-15	RLB	PW SUPPLY	152-101
65	008	RE15	ACD	PW SUPPLY	136-37	176	12	V12B15-15	RLB	PW SUPPLY	152-102
66	008	RE30A	ACD	PW SUPPLY	136-38	177	12	V12B15-15	RLB	PW SUPPLY	152-103
67	008	RE70	ACD	PW SUPPLY	136-39	178	12	V12B15-15	RLB	PW SUPPLY	152-104
68	008	RE110	ACD	PW SUPPLY	136-40	179	12	V12B15-15	RLB	PW SUPPLY	152-105
69	008	ST8	MIA	PW SUPPLY	141-18	180	12	V12B15-15	RLB	PW SUPPLY	152-106
70	008	WJA6	WJC	WIDEBD AMP	79-84	181	12	V12B15-15	RLB	PW SUPPLY	152-107
71	008	F80A30	MIA	PW SUPPLY	141-18	182	12	V12B15-15	RLB	PW SUPPLY	152-108
72	008	WJA6	MIA	PW SUPPLY	141-19	183	12	V12B15-15	RLB	PW SUPPLY	152-109
73	008	F85B35	MIA	PW SUPPLY	141-20	184	12	V12B15-15	RLB	PW SUPPLY	152-110
74	008	CJSE008	SODI	VOLT REG	111-87	185	12	V12B15-15	RLB	PW SUPPLY	152-111
75	008	HC008-1	TRA	PW SUPPLY	149-42	186	12	V12B15-15	RLB	PW SUPPLY	152-112
76	008	HC008-2	TRA	PW SUPPLY	149-43	187	12	V12B15-15	RLB	PW SUPPLY	152-113
77	008	HC008-1	TRA	PW SUPPLY	149-73	188	12	V12B15-15	RLB	PW SUPPLY	152-114
78	008	HC008-2	TRA	PW SUPPLY	149-73	189	12	V12B15-15	RLB	PW SUPPLY	152-115
79	008	HC008-1	TRA	PW SUPPLY	149-102	190	12	V12B15-15	RLB	PW SUPPLY	152-116
80	008	HC008-2	TRA	PW SUPPLY	149-103	191	12	V12B15-15	RLB	PW SUPPLY	152-117
81	008	OP09A1	PMI	OP AMP	51-80	192	12	V12B15-15	RLB	PW SUPPLY	152-118
82	008	OP09B1	PMI	OP AMP	51-80	193	12	V12B15-15	RLB	PW SUPPLY	152-119
83	008	OP09C1	PMI	OP AMP	51-80	194	12	V12B15-15	RLB	PW SUPPLY	152-120
84	008	OP09EY	PMI	OP AMP	51-80	195	12	V12B15-15	RLB	PW SUPPLY	152-121
85	008	OP09FJ	PMI	OP AMP	51-80	196	12	V12B15-15	RLB	PW SUPPLY	152-122
86	008	OP09GP	PMI	OP AMP	51-80	197	12	V12B15-15	RLB	PW SUPPLY	152-123
87	008	PA09	AMT	OP AMP	68-78	198	12	V12B15-15	RLB	PW SUPPLY	152-124
88	008	PA09A	ACD	PW SUPPLY	136-38	199	12	V12B15-15	RLB	PW SUPPLY	152-125
89	008	RE15	ACD	PW SUPPLY	136-37	200	12	V12B15-15	RLB	PW SUPPLY	152-126
90	008	RE30A	ACD	PW SUPPLY	136-38	201	12	V12B15-15	RLB	PW SUPPLY	152-127
91	008	RE70	ACD	PW SUPPLY	136-39	202	12	V12B15-15	RLB	PW SUPPLY	152-128
92	008	RE110	ACD	PW SUPPLY	136-40	203	12	V12B15-15	RLB	PW SUPPLY	152-129
93	008	ST8	MIA	PW SUPPLY	141-18	204	12	V12B15-15	RLB	PW SUPPLY	152-130
94	008	WJA6	WJC	WIDEBD AMP	79-84	205	12	V12B15-15	RLB	PW SUPPLY	152-131
95	008	F80A30	MIA	PW SUPPLY	141-18	206	12	V12B15-15	RLB	PW SUPPLY	152-132
96	008	WJA6	MIA	PW SUPPLY	141-19	207	12	V12B15-15	RLB	PW SUPPLY	152-133
97	008	F85B35	MIA	PW SUPPLY	141-20	208	12	V12B15-15	RLB	PW SUPPLY	152-134
98	008	CJSE008	SODI	VOLT REG	111-87	209	12	V12B15-15	RLB	PW SUPPLY	152-135
99	008	HC008-1	TRA	PW SUPPLY	149-42	210	12	V12B15-15	RLB	PW SUPPLY	152-136
100	008	HC008-2	TRA	PW SUPPLY	149-43	211	12	V12B15-15	RLB	PW SUPPLY	152-137
101	008	HC008-1	TRA	PW SUPPLY	149-73	212	12	V12B15-15	RLB	PW SUPPLY	152-138
102	008	HC008-2	TRA	PW SUPPLY	149-73	213	12	V12B15-15	RLB	PW SUPPLY	152-139
103	008	HC008-1	TRA	PW SUPPLY	149-102	214	12	V12B15-15	RLB	PW SUPPLY	152-140
104	008	HC008-2	TRA	PW SUPPLY	149-103	215	12	V12B15-15	RLB	PW SUPPLY	152-141
105	008	OP09A1	PMI	OP AMP	51-80	216	12	V12B15-15	RLB	PW SUPPLY	152-142
106	008	OP09B1	PMI	OP AMP	51-80	217	12	V12B15-15	RLB	PW SUPPLY	152-143
107	008	OP09C1	PMI	OP AMP	51-80	218	12	V12B15-15	RLB	PW SUPPLY	152-144
108	008	OP09EY	PMI	OP AMP	51-80	219	12	V12B15-15	RLB	PW SUPPLY	152-145
109	008	OP09FJ	PMI	OP AMP	51-80	220	12	V12B15-15	RLB	PW SUPPLY	152-146
110	008	OP09GP	PMI	OP AMP	51-80	221	12	V12B15-15	RLB	PW SUPPLY	152-147

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	12	A12F5000/2	TAI	PW SUPPLY	138-29	111	12	BPM12-1000/28	DTL	PW SUPPLY	147-51
2	12	A12F5000/2	TAI	PW SUPPLY	139-30	112	12	BPM12-1000	DTL	PW SUPPLY	147-52
3	12	S0120100	SCD	PW SUPPLY	143-43	113	12	BPM12-1005	DTL	PW SUPPLY	139-69
4	12	MW12-5020/1-2D3/1	SCD	PW SUPPLY	150-78	114	12	BPM12-1200	DTL	PW SUPPLY	139-68
5	12	MW12-5030/1-2D3/1	SCD	PW SUPPLY	150-78	115	12	BPM12-2200	DTL	PW SUPPLY	139-81
6	12	MW12-55200-15D15	SCD	PW SUPPLY	150-81	116	12	BPM12-2005	DTL	PW SUPPLY	139-80
7	12	MW12-55200-15D15	SCD	PW SUPPLY	150-81	117	12	BPM12-200J	DTL	PW SUPPLY	139-93
8	12	MW12-55300-12D25	SCD	PW SUPPLY	150-82	118	12	BPM12-2100	DTL	PW SUPPLY	147-53
9	12	MW12-55300-12D25	SCD	PW SUPPLY	150-83	119	12	BPM12-10028	DTL	PW SUPPLY	147-54
10	12	MW12-55300-15D25	SCD	PW SUPPLY	150-84	120	12	BPM12-10012	DTL	PW SUPPLY	147-55
11	12	LD12-12540-5D300/10	SCD	PW SUPPLY	150-85	121	12	BPM12-3000	DTL	PW SUPPLY	139-94
12	12	LD12-12540-5D300/10	SCD	PW SUPPLY	150-86	122	12	BPM12-300J	DTL	PW SUPPLY	139-98
13	12	LD12-12D150	SCD	PW SUPPLY	150-87	123	12	BPM12-240012	DTL	PW SUPPLY	147-56
14	12	LD12-12D150	SCD	PW SUPPLY	150-88	124	12	BPM12-420028	DTL	PW SUPPLY	147-57
15	12	LD12-15D150	SCD	PW SUPPLY	150-89	125	12	BPM12-42005	DTL	PW SUPPLY	147-58
16	12	N12	MIA	PW SUPPLY	150-96	126	12	UD12-655200	SCD	PW SUPPLY	152-55
17	12	SW12-551000	SCD	PW SUPPLY	151-9	127	12	UD12-12D50	SCD	PW SUPPLY	152-56
18	12	SW12-552000	SCD	PW SUPPLY	151-10	128	12	UD12-12D500	SCD	PW SUPPLY	152-57
19	12	SW12-553000	SCD	PW SUPPLY	152-11	129	12	UD12-12D650	SCD	PW SUPPLY	152-58
20	12	SW12-554000	SCD	PW SUPPLY	152-12	130	12	UD12-15D45	SCD	PW SUPPLY	152-59
21	12	CSE1256-5D10	SCD	PW SUPPLY	140-37	131	12	UD12-15D500	SCD	PW SUPPLY	152-60
22	12	CSE1256-5D20/1	SCD	PW SUPPLY	140-38	132	12	UD12-15D650	SCD	PW SUPPLY	152-61
23	12	CSE12520	SCD	PW SUPPLY	140-39	133	12	UPM12-100A	SCD	PW SUPPLY	143-89
24	12	CW12-552000	SCD	PW SUPPLY	148-12	134	12	UPM12-100B	SCD	PW SUPPLY	151-81
25	12	CW12-553000	SCD	PW SUPPLY	148-13	135	12	UPM12-100EA	SCD	PW SUPPLY	151-82
26	12	CW12-554000	SCD	PW SUPPLY	148-14	136	12	UPM12-100EA	SCD	PW SUPPLY	151-83
27	12	CW12-556000	SCD	PW SUPPLY	148-15	137	12	RA12-12D250	SCD	PW SUPPLY	151-84
28	12	CW12-558000	SCD	PW SUPPLY	148-16	138	12	UPM12-100A1	SCD	PW SUPPLY	151-85
29	12	CW12-558000	SCD	PW SUPPLY	148-17	139	12	RA12-15D120	SCD	PW SUPPLY	151-86
30	12	012-03	ACO	PW SUPPLY	140-40	140	12	UPM12-100-5000	SCD	PW SUPPLY	151-87
31	12	012-03	ACO	PW SUPPLY	140-41	141	12	UPM12-100-5000	SCD	PW SUPPLY	151-88
32	12	012-10A	ACO	PW SUPPLY	140-42	142	12	UPM12-100-5000	SCD	PW SUPPLY	151-89
33	12	012-15A	ACO	PW SUPPLY	140-43	143	12	UPM12-100-5000	SCD	PW SUPPLY	151-90
34	12	012-20	ACO	PW SUPPLY	140-44	144	12	UPM12-100-5000	SCD	PW SUPPLY	151-91
35	12	012-30	ACO	PW SUPPLY	140-45	145	12	UPM12-100-5000	SCD	PW SUPPLY	151-92
36	12	012-30	ACO	PW SUPPLY	140-46	146	12	UPM12-100-5000	SCD	PW SUPPLY	151-93
37	12	012-30	ACO	PW SUPPLY	140-47	147	12	UPM12-100-5000	SCD	PW SUPPLY	151-94
38	12	012-30	ACO	PW SUPPLY	140-48	148	12	UPM12-100-5000	SCD	PW SUPPLY	151-95
39	12	012-30	ACO	PW SUPPLY	140-49	149	12	UPM12-100-5000	SCD	PW SUPPLY	151-96
40	12	012-30	ACO	PW SUPPLY	140-50	150	12	UPM12-100-5000	SCD	PW SUPPLY	151-97
41	12	012-30	ACO	PW SUPPLY	140-51	151	12	UPM12-100-5000	SCD	PW SUPPLY	151-98
42	12	012-30	ACO	PW SUPPLY	140-52	152	12	UPM12-100-5000	SCD	PW SUPPLY	151-99
43	12	012-30	ACO	PW SUPPLY	140-53	153	12	UPM12-100-5000	SCD	PW SUPPLY	152-00
44	12	012-30	ACO	PW SUPPLY	140-54	154	12	UPM12-100-5000	SCD	PW SUPPLY	152-01
45	12	012-30	ACO	PW SUPPLY	140-55	155	12	UPM12-100-5000	SCD	PW SUPPLY	152-02
46	12	012-30	ACO	PW SUPPLY	140-56	156	12	UPM12-100-5000	SCD	PW SUPPLY	152-03
47	12	012-30	ACO	PW SUPPLY	140-57	157	12	UPM12-100-5000	SCD	PW SUPPLY	152-04
48	12	012-30	ACO	PW SUPPLY	140-58	158	12	UPM12-100-5000	SCD	PW SUPPLY	152-05
49	12	012-30	ACO	PW SUPPLY	140-59	159	12	UPM12-100-5000	SCD	PW SUPPLY	152-06
50	12	012-30	ACO	PW SUPPLY	140-60	160	12	UPM12-100-5000	SCD	PW SUPPLY	152-07
51	12	012-30	ACO	PW SUPPLY	140-61	161	12	UPM12-100-5000	SCD	PW SUPPLY	152-08
52	12	012-30	ACO	PW SUPPLY	140-62	162	12	UPM12-100-5000	SCD	PW SUPPLY	152-09
53	12	012-30	ACO	PW SUPPLY	140-63	163	12	UPM12-100-5000	SCD	PW SUPPLY	152-10
54	12	012-30	ACO	PW SUPPLY	140-64	164	12	UPM12-100-5000	SCD	PW SUPPLY	152-11
55	12	012-30	ACO	PW SUPPLY	140-65	165	12	UPM12-100-5000	SCD	PW SUPPLY	152-12
56	12	012-30	ACO	PW SUPPLY	140-66	166	12	UPM12-100-5000	SCD	PW SUPPLY	152-13
57	12	012-30	ACO	PW SUPPLY	140-67	167	12	UPM12-100-5000	SCD	PW SUPPLY	152-14
58	12	012-30	ACO	PW SUPPLY	140-68	168	12	UPM12-100-5000	SCD	PW SUPPLY	152-15
59	12	012-30	ACO	PW SUPPLY	140-69	169	12	UPM12-100-5000	SCD	PW SUPPLY	152-16
60	12	012-30	ACO	PW SUPPLY	140-70	170	12	UPM12-100-5000	SCD	PW SUPPLY	152-17
61	12	012-30	ACO	PW SUPPLY	140-71	171	12	UPM12-100-5000	SCD	PW SUPPLY	152-18
62	12	012-30	ACO	PW SUPPLY	140-72	172	12	UPM12-100-5000	SCD	PW SUPPLY	152-19
63	12	012-30	ACO	PW SUPPLY	140-73	173	12	UPM12-100-5000	SCD	PW SUPPLY	152-20
64	12	012-30	ACO	PW SUPPLY	140-74	174	12	UPM12-100-5000	SCD	PW SUPPLY	152-21
65	12	012-30	ACO	PW SUPPLY	140-75	175	12	UPM12-100-5000	SCD	PW SUPPLY	152-22
66	12	012-30	ACO	PW SUPPLY	140-76	176	12	UPM12-100-5000	SCD	PW SUPPLY	152-23
67	12	012-30	ACO	PW SUPPLY	140-77	177	12	UPM12-100-5000	SCD	PW SUPPLY	152-24
68	12	012-30	ACO	PW SUPPLY	140-78	178	12	UPM12-100-5000	SCD	PW SUPPLY	152-25
69	12	012-30	ACO	PW SUPPLY	140-79	179	12	UPM12-100-5000	SCD	PW SUPPLY	152-26
70	12	012-30	ACO	PW SUPPLY	140-80	180	12	UPM12-100-5000	SCD	PW SUPPLY	152-27
71	12	012-30	ACO	PW SUPPLY	140-81	181	12	UPM12-100-5000	SCD	PW SUPPLY	152-28
72	12	012-30	ACO	PW SUPPLY	140-82	182	12	UPM12-100-5000	SCD	PW SUPPLY	152-29
73	12	012-30	ACO	PW SUPPLY	140-83	183	12	UPM12-100-5000	SCD	PW SUPPLY	152-30
74	12	012-30	ACO	PW SUPPLY	140-84	184	12	UPM12-100-5000	SCD	PW SUPPLY	152-31
75	12	012-30	ACO	PW SUPPLY	140-85	185	12	UPM12-100-5000	SCD	PW SUPPLY	152-32
76	12	012-30	ACO	PW SUPPLY	140-86	186	12	UPM12-100-5000	SCD	PW SUPPLY	152-33
77	12	012-30	ACO	PW SUPPLY	140-87	187	12	UPM12-100-5000	SCD	PW SUPPLY	152-34
78	12	012-30	ACO	PW SUPPLY	140-88	188	12	UPM12-100-5000	SCD	PW SUPPLY	152-35
79	12	012-30	ACO	PW SUPPLY	140-89	189	12	UPM12-100-5000	SCD	PW SUPPLY	152-36
80	12	012-30	ACO	PW SUPPLY	140-90	190	12	UPM12-100-5000	SCD	PW SUPPLY	152-37
81	12	012-30	ACO	PW SUPPLY	140-91	191	12	UPM12-100-5000	SCD	PW SUPPLY	152-38
82	12	012-30	ACO	PW SUPPLY	140-92	192	12	UPM12-100-5000	SCD	PW SUPPLY	152-39
83	12	012-30	ACO	PW SUPPLY	140-93	193	12	UPM12-100-5000	SCD	PW SUPPLY	152-40
84	12	012-30	ACO	PW SUPPLY	140-94	194	12	UPM12-100-5000	SCD	PW SUPPLY	152-41
85	12	012-30	ACO	PW SUPPLY	140-95	195	12	UPM12-100-5000	SCD	PW SUPPLY	152-42
86	12	012-30	ACO	PW SUPPLY	140-96	196	12	UPM12-100-5000	SCD	PW SUPPLY	152-43
87	12	012-30	ACO	PW SUPPLY	140-97	197	12	UPM12-100-5000	SCD	PW SUPPLY	152-44
88	12	012-30	ACO	PW SUPPLY	140-98	198	12	UPM12-100-5000	SCD	PW SUPPLY	152-45
89	12	012-30	ACO	PW SUPPLY	140-99	199	12	UPM12-100-5000	SCD	PW SUPPLY	152-46
90	12	012-30	ACO	PW SUPPLY	141-00	200	12	UPM12-100-5000	SCD	PW SUPPLY	152-47
91	12	012-30	ACO	PW SUPPLY	141-01	201	12	UPM12-100-5000	SCD	PW SUPPLY	152-48
92	12	012-30	ACO	PW SUPPLY	141-02	202	12	UPM12-100-5000	SCD	PW SUPPLY	152-49
93	12	012-30	ACO	PW SUPPLY	141-03	203	12	UPM12-100-5000	SCD	PW SUPPLY	152-50
94	12	012-30	ACO	PW SUPPLY	141-04	204	12	UPM12-100-5000	SCD	PW SUPPLY	152-51
95	12	012-30	ACO	PW SUPPLY	141-05	205	12	UPM12-100-5000	SCD	PW SUPPLY	152-52
96	12	012-30	ACO	PW SUPPLY	141-06	206	12	UPM12-100-5000	SCD	PW SUPPLY	152-53
97	12	012-30	ACO	PW SUPPLY	141-07	207	12	UPM12-100-5000	SCD	PW SUPPLY	152-54
98	12	012-30	ACO	PW SUPPLY	141-08	208	12	UPM12-100-5000	SCD	PW SUPPLY	152-55
99	12	012-30	ACO	PW SUPPLY	141-09	209	12	UPM12-100-5000	SCD	PW SUPPLY	152-56
100	12	012-30	ACO	PW SUPPLY	141-10	210	12	UPM12-100-5000	SCD	PW SUPPLY	152-57
101	12	012-30	ACO	PW SUPPLY	141-11	211	12	UPM12-100-5000	SCD	PW SUPPLY	152-58
102	12	012-30	ACO	PW SUPPLY	141-12	212	12	UPM12-100-5000	SCD	PW SUPPLY	152-59
103	12	012-30	ACO	PW SUPPLY	141-13	213	12	UPM12-100-5000	SCD	PW SUPPLY	152-60
104	12	012-30	ACO	PW SUPPLY	141-14	214	12	UPM12-100-5000	SCD	PW SUPPLY	152-61
105	12	012-30	ACO	PW SUPPLY	141-15	215	12	UPM12-100-5000	SCD	PW SUPPLY	152-62
106	12	012-30	ACO	PW SUPPLY	141-16	216	12	UPM12-100-5000	SCD	PW SUPPLY	152-63</