SLLS094C – SEPTEMBER 1983 – REVISED MAY 2004

- Meet or Exceed the Requirements of ANSI TIA/EIA-232-E and ITU Recommendation V.28
- Current-Limited Output: 10 mA Typical
- Power-Off Output Impedance: 300 Ω Minimum
- Slew Rate Control by Load Capacitor
- Flexible Supply-Voltage Range
- Input Compatible With Most TTL Circuits

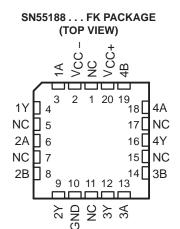
description/ordering information

The MC1488, SN55188, and SN75188 are monolithic quadruple line drivers designed to interface data terminal equipment with data communications equipment in conformance with ANSI TIA/EIA-232-E, using a diode in series with each supply-voltage terminal as shown under typical applications.

The SN55188 is characterized for operation over the full military temperature range of -55° C to 125°C. The MC1488 and SN75188 are characterized for operation from 0°C to 70°C.

SN75188 D, N, OR NS PACKAGE MC1488 N PACKAGE (TOP VIEW)									
V _{CC} _[1	14] V _{CC +}						
1A [2	13] 4B						
1Y [3	12] 4A						
2A [4	11] 4Y						
2B [5	10] 3B						
2Y [6	9] 3A						
GND [7	8] 3Y						

SN55188 ... J OR W PACKAGE



NC - No internal connection

TA	PACKAGI	Et.	ORDERABLE PART NUMBER	TOP-SIDE MARKING
		Tube of 25	MC1488N	MC1488N
0°C to 70°C	PDIP (N)	Tube of 25	SN75188N	SN75188N
		Tube of 50	SN75188D	CN75400
	SOIC (D)	Reel of 2500	SN75188DR	SN75188
	SOP (NS)	Reel of 2000	SN75188NSR	SN75188
		Tube of 25	SN55188J	SN55188J
–55°C to 125°C	CDIP (J)	Tube of 25	SNJ55188J	SNJ55188J
-55 C 10 125 C	CFP (W)	Tube of 150	SNJ55188W	SNJ55188W
	LCCC (FK)	Tube of 55	SNJ55188FK	SNJ55188FK

ORDERING INFORMATION

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.



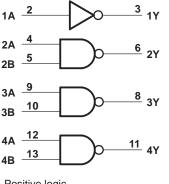
Copyright © 2004, Texas Instruments Incorporated On products compliant to MIL-PRF-3853s, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

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FUNCTION TABLE (drivers 2–4)									
A B Y									
Н	Н	L							
L	Х	Н							
Х	L	Н							
H – hiał	ا امریما ا								

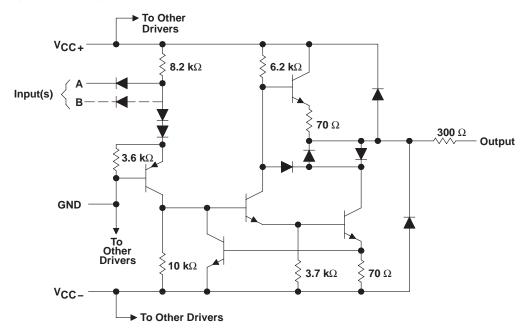
H = high level, L = low level, X = irrelevant

logic diagram (positive logic)



Positive logic $Y = \frac{\overline{A} \text{ (driver 1)}}{Y = \overline{AB} \text{ or } \overline{A} + \overline{B} \text{ (drivers 2 thru 4)}}$

schematic (each driver)



Resistor values shown are nominal.



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absolute maximum ratings over operating free-air temperature (unless otherwise noted)[†]

Supply voltage, V _{CC+} at (or below) 25°C free-air temperature (see Notes 1 and 2)
Input voltage, V ₁
Output voltage, V _O
Continuous total power dissipation (see Note 2) See Dissipation Rating Table
Package thermal impedance, θ_{JA} (see Notes 3 and 4): D package
N package
NS package
Operating virtual junction temperature, T _J 150°C
Case temperature for 60 seconds, FK package
Lead temperature 1,6 mm (1/16 inch) from case for 60 seconds: J or W package
Storage temperature range, T _{stg} –65°C to 150°C

[†] Stresses beyond those listed under "absolute maximum ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under "recommended operating conditions" is not implied. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

NOTES: 1. All voltage values are with respect to the network ground terminal.

- 2. For operation above 25°C free-air temperature, refer to the maximum supply voltage curve, Figure 6. In the J package, SN55188 chips are alloy mounted.
- 3. Maximum power dissipation is a function of $T_J(max)$, θ_{JA} , and T_A . The maximum allowable power dissipation at any allowable ambient temperature is $P_D = (T_J(max) T_A)/\theta_{JA}$. Selecting the maximum of 150°C can affect reliability.
- 4. The package thermal impedance is calculated in accordance with JESD 51-7.

	DISSIPATION RATING TABLE										
PACKAGE	$T_A \le 25^{\circ}C$ POWER RATING	DERATING FACTOR ABOVE T _A = 25°C	T _A = 70°C POWER RATING	T _A = 125°C POWER RATING							
FK	1375 mW	11.0 mW/°C	880 mW	275 mW							
J	1375 mW	11.0 mW/°C	880 mW	275 mW							
W	1000 mW	8.0 mW/°C	640 mW	200 mW							

recommended operating conditions

		5	SN55188		MC14	MC1488, SN75188				
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT		
V _{CC+} S	Supply voltage	7.5	9	15	7.5	9	15	V		
V _{CC-} S	Supply voltage	-7.5	-9	-15	-7.5	-9	-15	V		
VIH F	High-level input voltage	1.9			1.9			V		
V _{IL} L	_ow-level input voltage			0.8			0.8	V		
T _A C	Operating free-air temperature	-55		125	0		70	°C		



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electrical characteristics over operating free-air temperature range, V _{CC±} = ±9 V (unless otherwise)	ise
noted)	

				SN55188		MC1488, SN75188					
	PARAMETER	TEST CON	NDITIONS	MIN	TYP†	MAX	MIN	TYP†	MAX	UNIT	
∨он	High-level output voltage	V _{IL} = 0.8 V,	V _{CC+} = 9 V, V _{CC-} = -9 V	6	7		6	7		V	
vОН	nigh-level output voltage	$R_L = 3 k\Omega$	V _{CC+} = 13.2 V, V _{CC-} = -13.2 V	9	10.5		9	10.5		v	
VOL	Low-level output voltage	V _{IH} = 1.9 V,	V _{CC+} = 9 V, V _{CC-} = -9 V		_7‡	-6		-7	-6	V	
VOL		$R_L = 3 k\Omega$	V _{CC+} = 13.2 V, V _{CC-} = -13.2 V		-10.5‡	-9		-10.5	-9	v	
Ι _Η	High-level input current	V _I = 5 V				10			10	μA	
۱ _{IL}	Low-level input current	$V_{I} = 0$			-1	-1.6		-1	-1.6	mA	
IOS(H)	Short-circuit output current at high level [§]	V _I = 0.8 V,	V _O = 0	-4.6	-9	-13.5	-6	-9	-12	mA	
IOS(L)	Short-circuit output current at low level§	V _I = 1.9 V,	$V_{O} = 0$	4.6	9	13.5	6	9	12	mA	
r _o	Output resistance, power off	$V_{CC+} = 0,$ $V_{O} = -2 V \text{ to } 2 V$	$V_{CC-} = 0,$	300			300			Ω	
		V _{CC+} = 9 V,	All inputs at 1.9 V		15	20		15	20		
		No load	All inputs at 0.8 V		4.5	6		4.5	6	mA	
	Supply current from	V _{CC+} = 12 V,	All inputs at 1.9 V		19	25		19	25		
ICC+	V _{CC+}	No load	All inputs at 0.8 V		5.5	7		5.5	7		
		V _{CC+} = 15 V,	All inputs at 1.9 V			34			34		
		No load, T _A = $25^{\circ}C$	All inputs at 0.8 V			12			12		
		$V_{CC} = -9 V,$	All inputs at 1.9 V		-13	-17		-13	-17		
		No load	All inputs at 0.8 V			-0.5			-0.015		
ICC-	Supply current from ICC-	$V_{CC-} = -12 V,$	All inputs at 1.9 V		-18	-23		-18	-23	mA	
-00-		No load	All inputs at 0.8 V			-0.5			-0.015	110 (
		$V_{CC-} = -15 V,$	All inputs at 1.9 V	-34		-34					
		No load, $T_A = 25^{\circ}C$	All inputs at 0.8 V			-2.5			-2.5		
Po	Total nower dissipation	V _{CC+} = 9 V, No load	$V_{CC-} = -9 V,$			333			333	mW	
۲D	PD Total power dissipation	V _{CC+} = 12 V, No load	$V_{CC-} = -12 V,$			576			576	TTIVV	

[†] All typical values are at $T_A = 25^{\circ}C$. [‡] The algebraic convention, in which the less positive (more negative) limit is designated as minimum, is used in this data sheet for logic voltage levels only, e.g., if -6 V is a maximum, the typical value is a more negative voltage.

§ Not more than one output should be shorted at a time.



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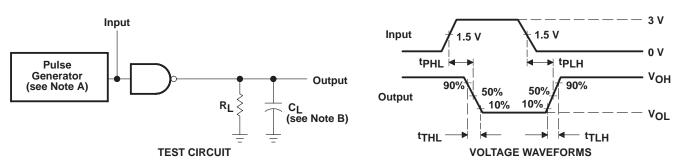
switching characteristics, V_CC \pm = ± 9 V, T_A = 25°C

	PARAMETER	TEST CON	DITIONS	MIN	TYP	MAX	UNIT
^t PLH	Propagation delay time, low- to high-level output				220	350	ns
^t PHL	Propagation delay time, high- to low-level output	$R_L = 3 k\Omega$,	CL = 15 pF,		100	175	ns
^t TLH	Transition time, low- to high-level output †	See Figure 1			55	100	ns
^t THL	Transition time, high- to low-level output †				45	75	ns
^t TLH	Transition time, low- to high-level output [‡]	$R_{I} = 3 k\Omega \text{ to } 7 k\Omega,$	C _I = 2500 pF,		2.5		μs
t _{THL}	Transition time, high- to low-level output [‡]	See Figure 1			3.0		μs

[†] Measured between 10% and 90% points of output waveform

[‡]Measured between 3 V and -3 V points on the output waveform (TIA/EIA-232-E conditions)

PARAMETER MEASUREMENT INFORMATION



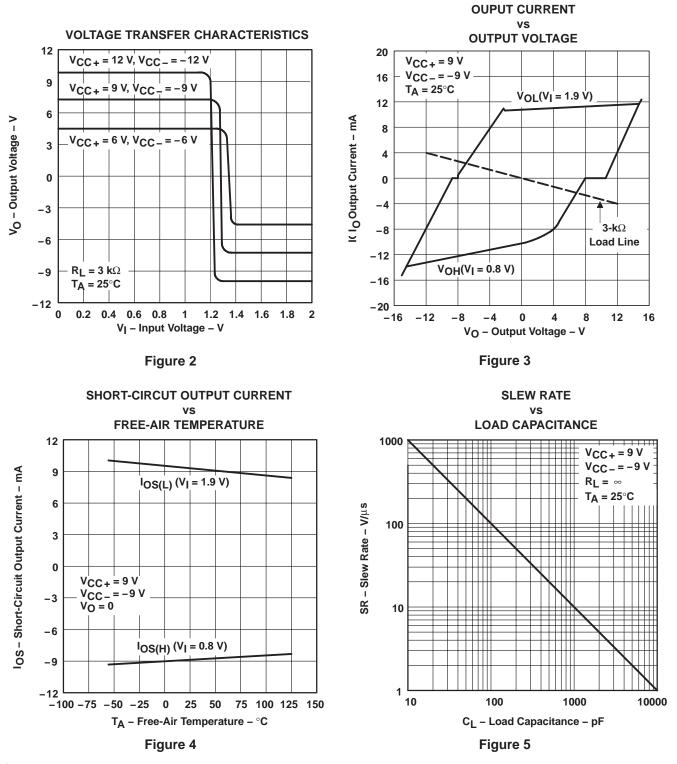
NOTES: A. The pulse generator has the following characteristics: $t_W = 0.5 \ \mu s$, PRR $\leq 1 \ MHz$, $Z_O = 50 \ \Omega$. B. CL includes probe and jig capacitance.

Figure 1. Test Circuit and Voltage Waveforms



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TYPICAL CHARACTERISTICS[†]



 † Data for temperatures below 0°C and above 70°C are applicable to SN55188 circuit only.



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THERMAL INFORMATION[†]

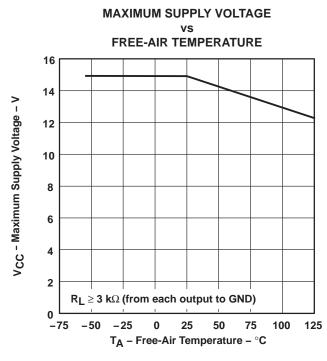
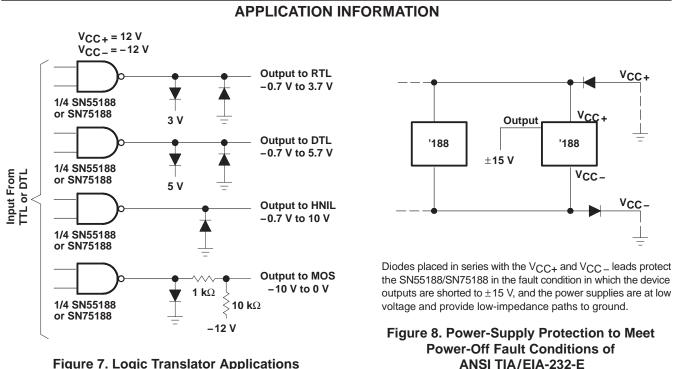


Figure 6

[†] Data for temperatures below 0°C and above 70°C are applicable to the SN55188 circuit only.



STRUMENTS

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Figure 7. Logic Translator Applications

7

VCC+

Vcc-



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5-Sep-2011

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	Eco Plan ⁽²⁾	Lead/ Ball Finish	MSL Peak Temp ⁽³⁾	Samples (Requires Login)
5962-86889012A	ACTIVE	LCCC	FK	20	1	TBD	Call TI	Call TI	
5962-8688901CA	ACTIVE	CDIP	J	14	1	TBD	Call TI	Call TI	
5962-8688901DA	ACTIVE	CFP	W	14	1	TBD	Call TI	Call TI	
MC1488N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
MC1488NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN55188J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	
SN75188D	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN75188DE4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN75188DG4	ACTIVE	SOIC	D	14	50	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN75188DR	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN75188DRE4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN75188DRG4	ACTIVE	SOIC	D	14	2500	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN75188N	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN75188NE4	ACTIVE	PDIP	Ν	14	25	Pb-Free (RoHS)	CU NIPDAU	N / A for Pkg Type	
SN75188NSR	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN75188NSRE4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SN75188NSRG4	ACTIVE	SO	NS	14	2000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	
SNJ55188FK	ACTIVE	LCCC	FK	20	1	TBD	POST-PLATE	N / A for Pkg Type	
SNJ55188J	ACTIVE	CDIP	J	14	1	TBD	A42	N / A for Pkg Type	
SNJ55188W	ACTIVE	CFP	W	14	1	TBD	A42	N / A for Pkg Type	

⁽¹⁾ The marketing status values are defined as follows: **ACTIVE:** Product device recommended for new designs.

LIFEBUY: TI has announced that the device will be discontinued, and a lifetime-buy period is in effect.

PACKAGE OPTION ADDENDUM



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5-Sep-2011

NRND: Not recommended for new designs. Device is in production to support existing customers, but TI does not recommend using this part in a new design. **PREVIEW:** Device has been announced but is not in production. Samples may or may not be available. **OBSOLETE:** TI has discontinued the production of the device.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

Pb-Free (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes.

Pb-Free (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

⁽³⁾ MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

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OTHER QUALIFIED VERSIONS OF SN55188, SN75188 :

Catalog: SN75188

Military: SN55188

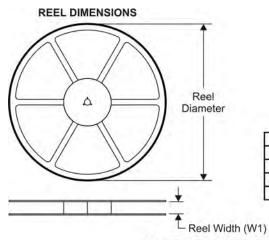
NOTE: Qualified Version Definitions:

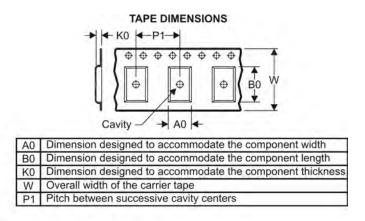
• Catalog - TI's standard catalog product

• Military - QML certified for Military and Defense Applications

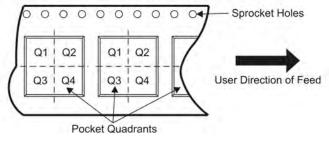
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TAPE AND REEL INFORMATION





QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dime	nsions are nominal												
	Device		Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
S	SN75188DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
S	N75188NSR	SO	NS	14	2000	330.0	16.4	8.2	10.5	2.5	12.0	16.0	Q1



PACKAGE MATERIALS INFORMATION

11-Mar-2008

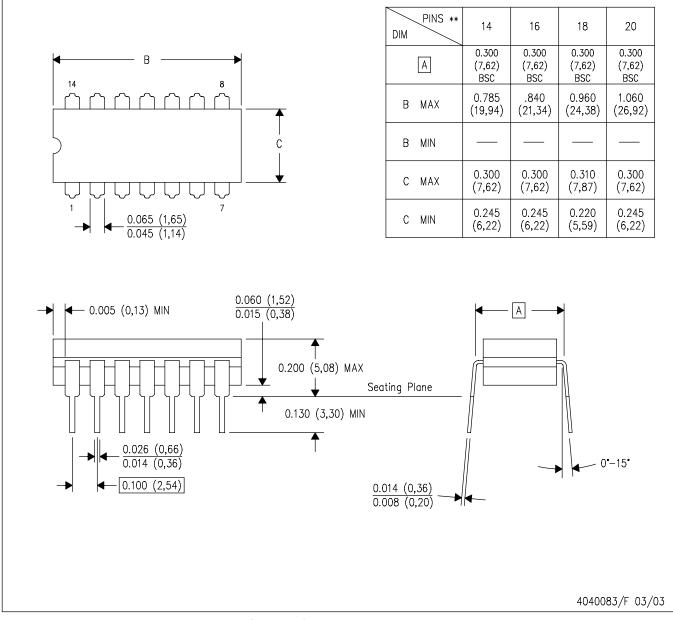


*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN75188DR	SOIC	D	14	2500	346.0	346.0	33.0
SN75188NSR	SO	NS	14	2000	346.0	346.0	33.0

J (R-GDIP-T**) 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE

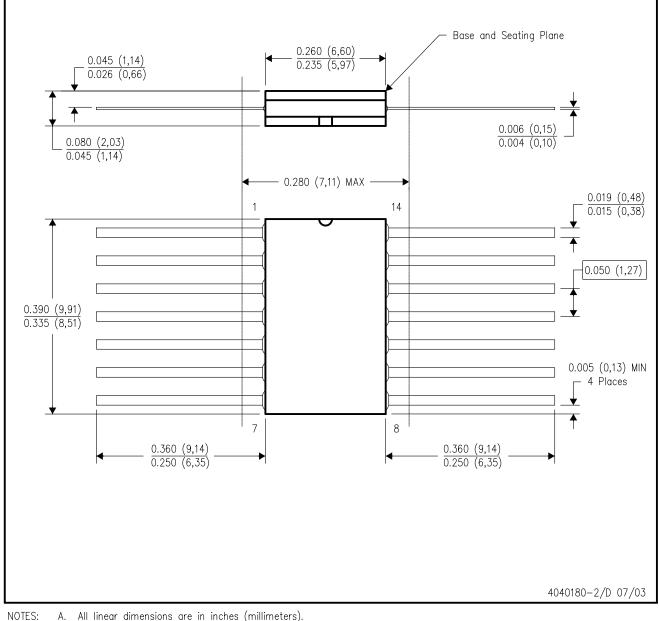


NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

W (R-GDFP-F14)

CERAMIC DUAL FLATPACK

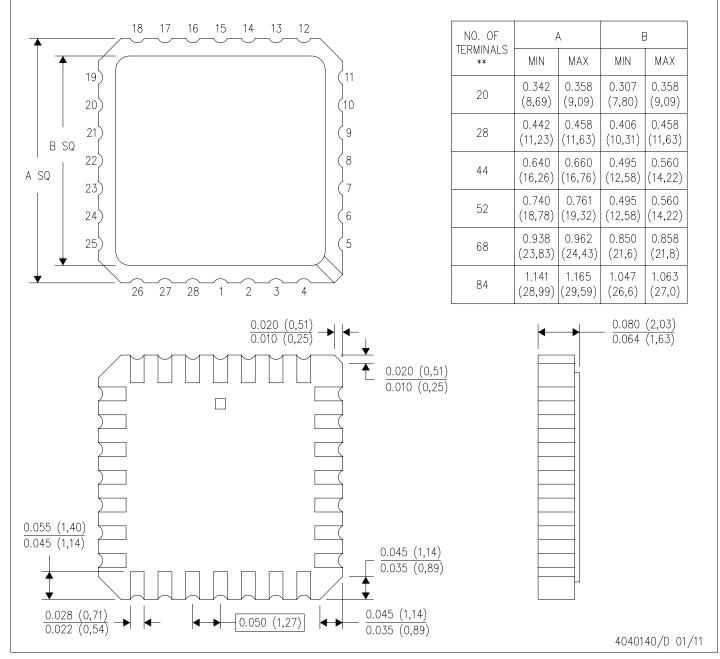


- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. This package can be hermetically sealed with a ceramic lid using glass frit.
 - D. Index point is provided on cap for terminal identification only.
 - E. Falls within MIL STD 1835 GDFP1-F14 and JEDEC MO-092AB



LEADLESS CERAMIC CHIP CARRIER

FK (S-CQCC-N**) 28 TERMINAL SHOWN



NOTES: A. All linear dimensions are in inches (millimeters).

B. This drawing is subject to change without notice.

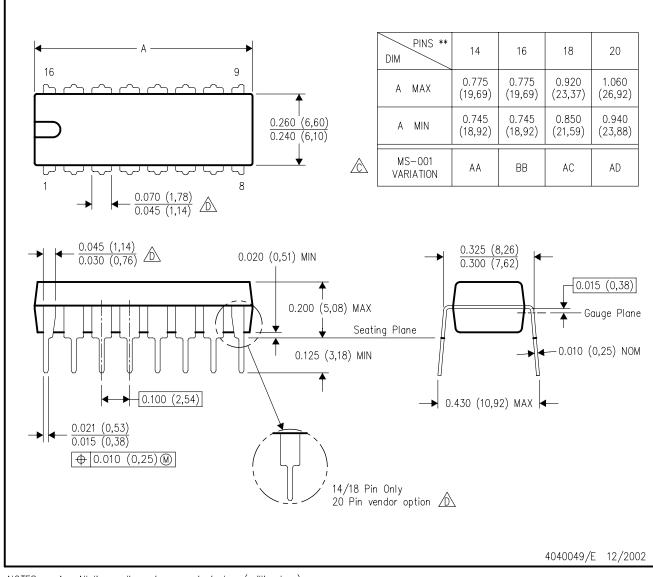
- C. This package can be hermetically sealed with a metal lid.
- D. Falls within JEDEC MS-004



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



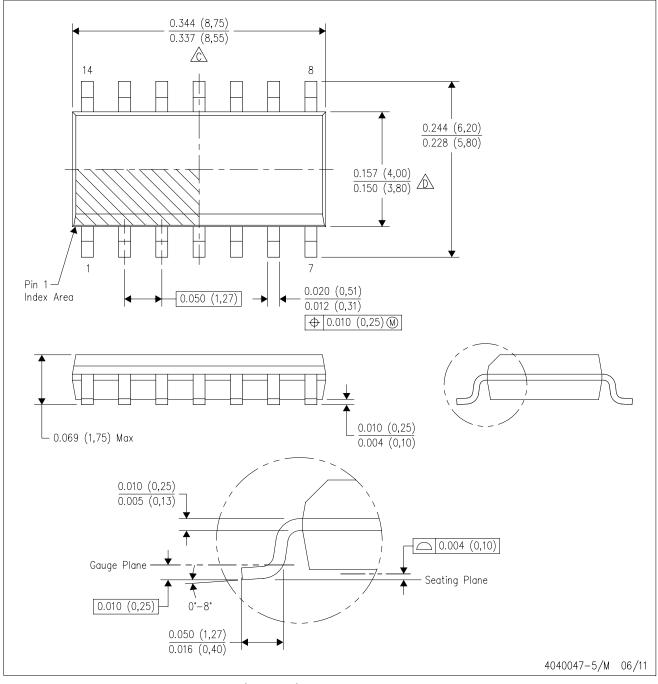
NOTES:

- A. All linear dimensions are in inches (millimeters).B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- \triangle The 20 pin end lead shoulder width is a vendor option, either half or full width.



D (R-PDSO-G14)

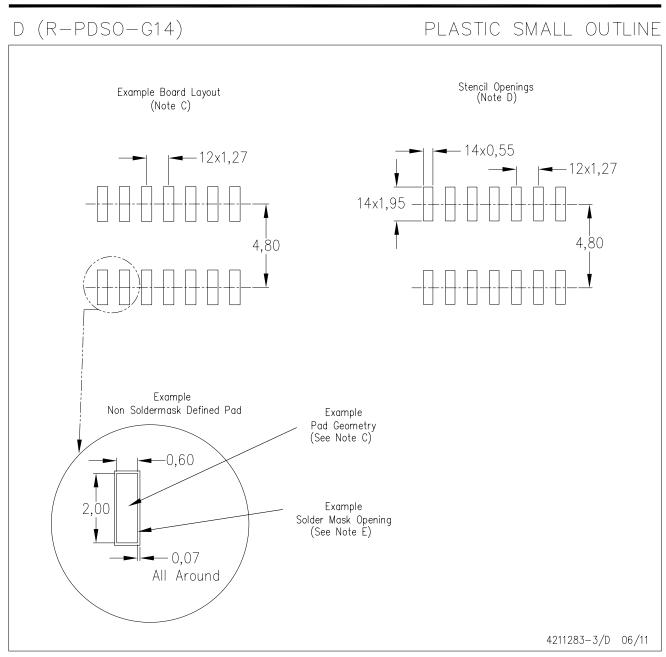
PLASTIC SMALL OUTLINE



NOTES: A. All linear dimensions are in inches (millimeters).

- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AB.





NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
 E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



MECHANICAL DATA

PLASTIC SMALL-OUTLINE PACKAGE

0,51 0,35 ⊕0,25⊛ 1,27 8 14 0,15 NOM 5,60 8,20 5,00 7,40 \bigcirc Gage Plane ₽ 0,25 7 1 1,05 0,55 0°-10° Δ 0,15 0,05 Seating Plane — 2,00 MAX 0,10PINS ** 14 16 20 24 DIM 10,50 10,50 12,90 15,30 A MAX A MIN 9,90 9,90 12,30 14,70 4040062/C 03/03

NOTES: A. All linear dimensions are in millimeters.

NS (R-PDSO-G**)

14-PINS SHOWN

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



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