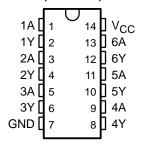
SDLS031A - DECEMBER 1983 - REVISED DECEMBER 2001

- Convert TTL Voltage Levels to MOS Levels
- High Sink-Current Capability
- Input Clamping Diodes Simplify System Design
- Open-Collector Drivers for Indicator Lamps and Relays
- Inputs Fully Compatible With Most TTL Circuits

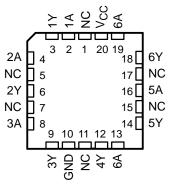
### description

These TTL hex inverter buffers/drivers feature high-voltage open-collector outputs for interfacing with high-level circuits (such as MOS) or for driving high-current loads (such as lamps or relays), and also are characterized for use as inverter buffers for driving TTL inputs. The SN5406 and SN7406 have minimum breakdown voltages of 30 V. The SN5416 and SN7416 have minimum breakdown voltages of 15 V. The maximum sink current is 30 mA for the SN5406 and SN5416, and 40 mA for the SN7406 and SN7416.

SN5406, SN5416 . . . J OR W PACKAGE SN7406 . . . D, N, OR NS PACKAGE SN7416 . . . D OR N PACKAGE (TOP VIEW)



# SN5406 . . . FK PACKAGE (TOP VIEW)



NC - No internal connection

#### ORDERING INFORMATION

TA	PAC	(AGE <sup>†</sup>	ORDERABLE PART NUMBER	TOP-SIDE MARKING
		Tube	SN7406D	7406
	SOIC – D	Tape and reel	7406	
0°C to 70°C	30IC - D	Tube	SN7416D	7416
		Tape and reel	SN7416DR	7410
	PDIP – N	Tube	SN7406N	SN7406N
	PDIP – N	Tube	SN7416N	SN7416N
	SOP – NS	Tape and reel	SN7406NSR	SN7406
	CDIP – J	Tube	SNJ5406J	SNJ5406J
	CDIP – J	Tube	SNJ5416J	SNJ5416J
–55°C to 125°C	CDIP – W	Tube	SNJ5406W	SNJ5406W
	CDIF - W	Tube	SNJ5416W	SNJ5416W
	LCCC – FK	Tube	SNJ5406FK	SNJ5406FK

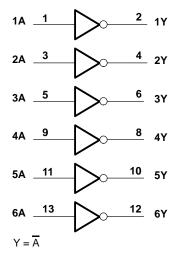
<sup>†</sup> Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.



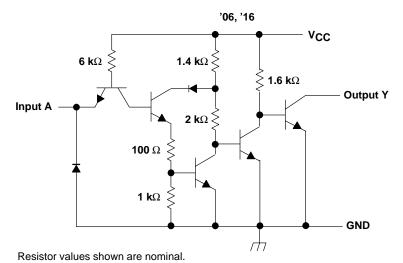
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.



### logic diagram (positive logic)



## schematic (each buffer/driver)



## absolute maximum ratings over operating free-air temperature (unless otherwise noted)

Supply voltage, V <sub>CC</sub> (see Note 1)	7 V
Input voltage, V <sub>I</sub> (see Note 1)	
Output voltage, VO (see Notes 1 and 2): SN5406, SN7406	
SN5416, SN7416	15 V
Package thermal impedance, θ <sub>JA</sub> (see Note 3): D package	86°C/W
N package	
NS package	76°C/W
Storage temperature range, Teta	–65°C to 150°C

<sup>†</sup> 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. Voltage values are with respect to network ground terminal.
  - 2. This is the maximum voltage which should be applied to any output when it is in the off state.
  - 3. The package thermal impedance is calculated in accordance with JESD 51-7.



SDLS031A - DECEMBER 1983 - REVISED DECEMBER 2001

### recommended operating conditions

						SN7406 SN7416			UNIT
			MIN	NOM	MAX	MIN	NOM	MAX	
VCC	V <sub>CC</sub> Supply voltage				5.5	4.75	5	5.25	V
٧ <sub>IH</sub>	High-level input voltage	2			2			V	
٧ <sub>IL</sub>	Low-level input voltage				0.8			0.8	V
V/011	High level output voltage	'06			30			30	V
VOH	High-level output voltage	'16			15			15	V
loL	OL Low-level output current				30			40	mA
T <sub>A</sub>	Operating free-air temperature		-55		125	0		70	°C

## electrical characteristics over recommended operating free-air temperature range (unless otherwise noted)

PARAMETER		TEST CONDITIONS	t		SN5406 SN5416		SN7406 SN7416			UNIT
							MIN	TYP‡	MAX	
VIK	$V_{CC} = MIN,$	I <sub>I</sub> = -12 mA				-1.5			-1.5	V
<sup>I</sup> ОН	$V_{CC} = MIN,$	$V_{IL} = 0.8 V$ ,	V <sub>OH</sub> = §			0.25			0.25	mA
\/a NINI	V <sub>CC</sub> = MIN,	V <sub>IH</sub> = 2 V	I <sub>OL</sub> = 16 mA			0.4			0.4	V
VOL	ACC = IMIIA'	VIH = 2 V	I <sub>OL</sub> = ¶			0.7			0.7	V
Ц	$V_{CC} = MAX$ ,	V <sub>I</sub> = 5.5 V				1			1	mA
lін	$V_{CC} = MAX$ ,	V <sub>IH</sub> = 2.4 V				40			40	μΑ
I <sub>IL</sub>	$V_{CC} = MAX$ ,	$V_{IL} = 0.4 V$				-1.6			-1.6	mA
Іссн	V <sub>CC</sub> = MAX				30	48		30	48	mA
ICCL	V <sub>CC</sub> = MAX	_			32	51		32	51	mA

<sup>†</sup> For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

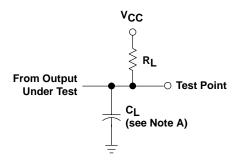
# switching characteristics, $V_{CC}$ = 5 V, $T_A$ = 25°C (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	MIN	TYP	MAX	UNIT
t <sub>PLH</sub>	۸	Υ	D: 440.0 C: 45 pF		10	15	nc
<sup>t</sup> PHL	Α		$R_L = 110 \Omega$ , $C_L = 15 pF$		15	23	ns

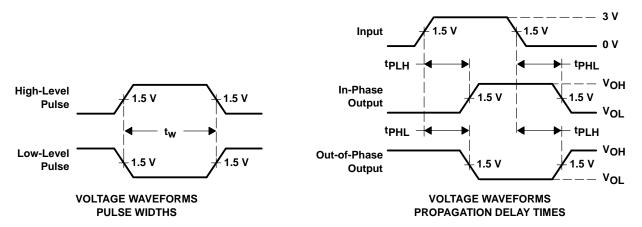


<sup>‡</sup> All typical values are at  $V_{CC}$  = 5 V,  $T_A$  = 25°C. §  $V_{OH}$  = 30 V for '06 and 15 V for '16. ¶  $I_{OL}$  = 30 mA for SN54' and 40 mA for SN74'.

#### PARAMETER MEASUREMENT INFORMATION



**LOAD CIRCUIT** 



NOTES: A. C<sub>L</sub> includes probe and jig capacitance.

- B. In the examples above, the phase relationships between inputs and outputs have been chosen arbitrarily.
- C. All input pulses are supplied by generators having the following characteristics: PRR  $\leq$  1 MHz,  $Z_O = 50 \Omega$ ,  $t_f \leq$  7 ns.
- D. The outputs are measured one at a time with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms



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## **PACKAGING INFORMATION**

Orderable part number	Status (1)	Material type	Package   Pins	Package qty   Carrier	<b>RoHS</b> (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
JM38510/00801BCA	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 00801BCA
JM38510/00801BCA.A	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 00801BCA
JM38510/00801BDA	Active	Production	CFP (W)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 00801BDA
JM38510/00801BDA.A	Active	Production	CFP (W)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 00801BDA
M38510/00801BCA	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 00801BCA
M38510/00801BDA	Active	Production	CFP (W)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 00801BDA
SN5406J	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN5406J
SN5406J.A	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN5406J
SN5416J	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN5416J
SN5416J.A	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN5416J
SN7406D	Obsolete	Production	SOIC (D)   14	-	-	Call TI	Call TI	0 to 70	7406
SN7406DR	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	7406
SN7406DR.A	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	7406
SN7406DRE4	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	7406
SN7406DRG4	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	7406
SN7406DRG4.A	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	7406
SN7406N	Active	Production	PDIP (N)   14	25   TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN7406N
SN7406N.A	Active	Production	PDIP (N)   14	25   TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN7406N
SN7406NE4	Active	Production	PDIP (N)   14	25   TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN7406N
SN7406NSR	Active	Production	SOP (NS)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	SN7406
SN7406NSR.A	Active	Production	SOP (NS)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	SN7406
SN7416D	Obsolete	Production	SOIC (D)   14	-	-	Call TI	Call TI	0 to 70	7416
SN7416DR	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	7416
SN7416DR.A	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	7416
SN7416N	Active	Production	PDIP (N)   14	25   TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN7416N



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Orderable part number	Status (1)	Material type	Package   Pins	Package qty   Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking
	(1)	(2)			(3)	(4)	(5)		(6)
SN7416N.A	Active	Production	PDIP (N)   14	25   TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN7416N
SN7416NSR	Active	Production	SOP (NS)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	SN7416
SN7416NSR.A	Active	Production	SOP (NS)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	SN7416
SNJ5406FK	Active	Production	LCCC (FK)   20	55   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5406FK
SNJ5406FK.A	Active	Production	LCCC (FK)   20	55   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5406FK
SNJ5406J	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5406J
SNJ5406J.A	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5406J
SNJ5406W	Active	Production	CFP (W)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5406W
SNJ5406W.A	Active	Production	CFP (W)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5406W
SNJ5416J	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5416J
SNJ5416J.A	Active	Production	CDIP (J)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5416J
SNJ5416W	Active	Production	CFP (W)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5416W
SNJ5416W.A	Active	Production	CFP (W)   14	25   TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ5416W

<sup>(1)</sup> Status: For more details on status, see our product life cycle.

Multiple part markings will be inside parentheses. Only one part marking contained in parentheses and separated by a "~" will appear on a part. If a line is indented then it is a continuation of the previous line and the two combined represent the entire part marking for that device.

<sup>(2)</sup> Material type: When designated, preproduction parts are prototypes/experimental devices, and are not yet approved or released for full production. Testing and final process, including without limitation quality assurance, reliability performance testing, and/or process qualification, may not yet be complete, and this item is subject to further changes or possible discontinuation. If available for ordering, purchases will be subject to an additional waiver at checkout, and are intended for early internal evaluation purposes only. These items are sold without warranties of any kind.

<sup>(3)</sup> RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

<sup>(4)</sup> Lead finish/Ball material: Parts may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead finish/Ball material values may wrap to two lines if the finish value exceeds the maximum column width.

<sup>(5)</sup> MSL rating/Peak reflow: The moisture sensitivity level ratings and peak solder (reflow) temperatures. In the event that a part has multiple moisture sensitivity ratings, only the lowest level per JEDEC standards is shown. Refer to the shipping label for the actual reflow temperature that will be used to mount the part to the printed circuit board.

<sup>(6)</sup> Part marking: There may be an additional marking, which relates to the logo, the lot trace code information, or the environmental category of the part.

## PACKAGE OPTION ADDENDUM

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Important Information and Disclaimer: The information provided on this page represents TI's knowledge and belief as of the date that it is provided. TI bases its knowledge and belief on information provided by third parties, and makes no representation or warranty as to the accuracy of such information. Efforts are underway to better integrate information from third parties. TI has taken and continues to take reasonable steps to provide representative and accurate information but may not have conducted destructive testing or chemical analysis on incoming materials and chemicals. TI and TI suppliers consider certain information to be proprietary, and thus CAS numbers and other limited information may not be available for release.

In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

#### OTHER QUALIFIED VERSIONS OF SN5406, SN5416, SN7406, SN7416:

Catalog : SN7406, SN7416

Military: SN5406, SN5416

NOTE: Qualified Version Definitions:

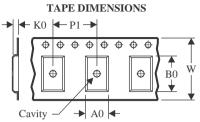
- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

## **PACKAGE MATERIALS INFORMATION**

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### TAPE AND REEL INFORMATION





A0	Dimension designed to accommodate the component width
В0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

#### QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



#### \*All dimensions are nominal

Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN7406DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN7406DRG4	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN7406DRG4	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN7406NSR	SOP	NS	14	2000	330.0	16.4	8.1	10.4	2.5	12.0	16.0	Q1
SN7416DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN7416NSR	SOP	NS	14	2000	330.0	16.4	8.1	10.4	2.5	12.0	16.0	Q1



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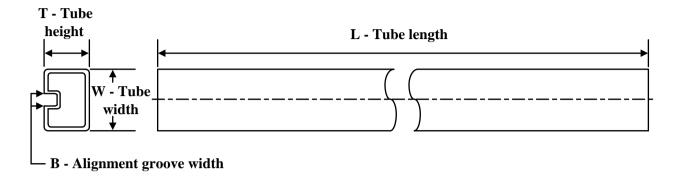
\*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN7406DR	SOIC	D	14	2500	353.0	353.0	32.0
SN7406DRG4	SOIC	D	14	2500	353.0	353.0	32.0
SN7406DRG4	SOIC	D	14	2500	353.0	353.0	32.0
SN7406NSR	SOP	NS	14	2000	353.0	353.0	32.0
SN7416DR	SOIC	D	14	2500	353.0	353.0	32.0
SN7416NSR	SOP	NS	14	2000	353.0	353.0	32.0



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### **TUBE**

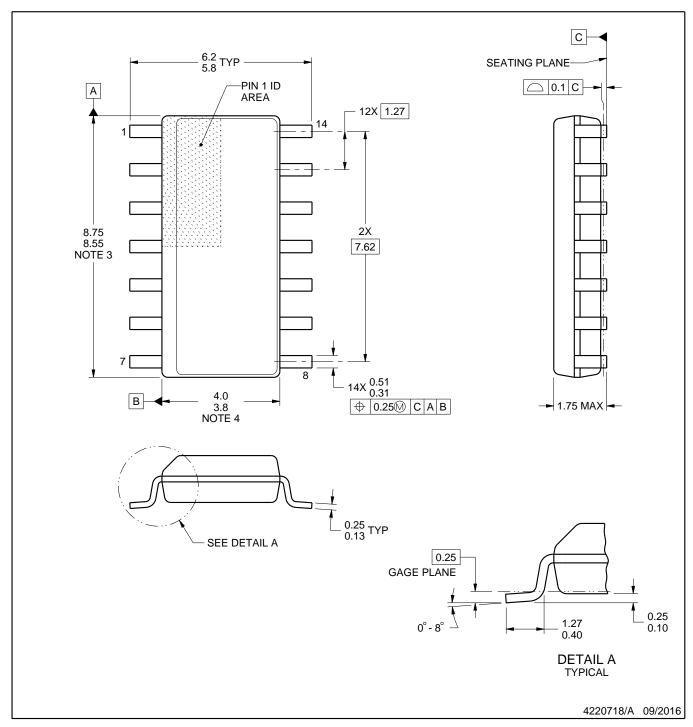


\*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
JM38510/00801BDA	W	CFP	14	25	506.98	26.16	6220	NA
JM38510/00801BDA.A	W	CFP	14	25	506.98	26.16	6220	NA
M38510/00801BDA	W	CFP	14	25	506.98	26.16	6220	NA
SN7406N	N	PDIP	14	25	506	13.97	11230	4.32
SN7406N	N	PDIP	14	25	506	13.97	11230	4.32
SN7406N.A	N	PDIP	14	25	506	13.97	11230	4.32
SN7406N.A	N	PDIP	14	25	506	13.97	11230	4.32
SN7406NE4	N	PDIP	14	25	506	13.97	11230	4.32
SN7406NE4	N	PDIP	14	25	506	13.97	11230	4.32
SN7416N	N	PDIP	14	25	506	13.97	11230	4.32
SN7416N	N	PDIP	14	25	506	13.97	11230	4.32
SN7416N.A	N	PDIP	14	25	506	13.97	11230	4.32
SN7416N.A	N	PDIP	14	25	506	13.97	11230	4.32
SNJ5406FK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ5406FK.A	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ5406W	W	CFP	14	25	506.98	26.16	6220	NA
SNJ5406W.A	W	CFP	14	25	506.98	26.16	6220	NA
SNJ5416W	W	CFP	14	25	506.98	26.16	6220	NA
SNJ5416W.A	W	CFP	14	25	506.98	26.16	6220	NA



SMALL OUTLINE INTEGRATED CIRCUIT



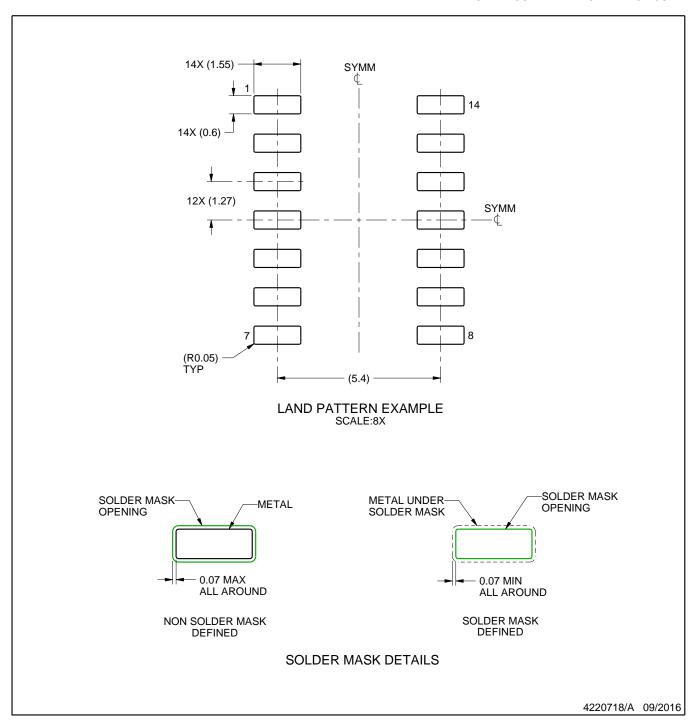
- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

  2. This drawing is subject to change without notice.

  3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not
- exceed 0.15 mm, per side.
- 4. This dimension does not include interlead flash. Interlead flash shall not exceed 0.43 mm, per side.
- 5. Reference JEDEC registration MS-012, variation AB.



SMALL OUTLINE INTEGRATED CIRCUIT



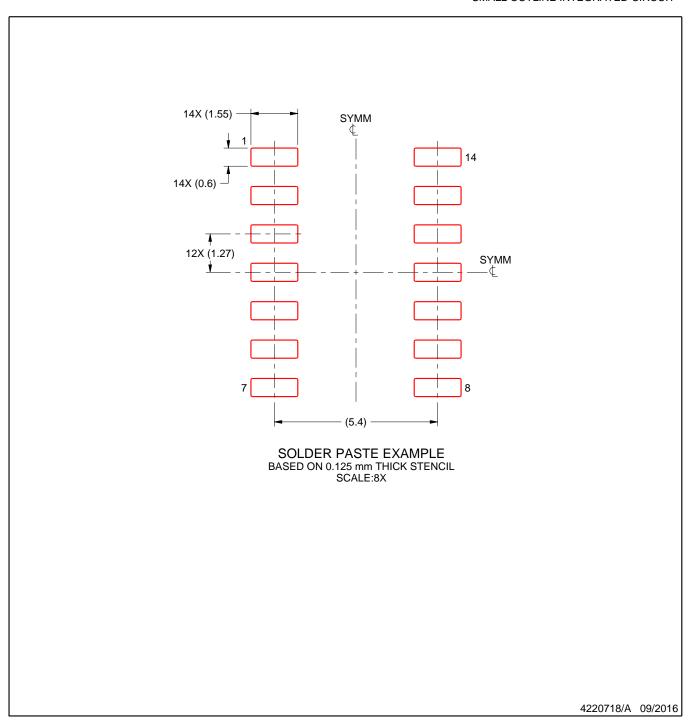
NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



SMALL OUTLINE INTEGRATED CIRCUIT



NOTES: (continued)

- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



### **MECHANICAL DATA**

## NS (R-PDSO-G\*\*)

# 14-PINS SHOWN

### PLASTIC SMALL-OUTLINE PACKAGE

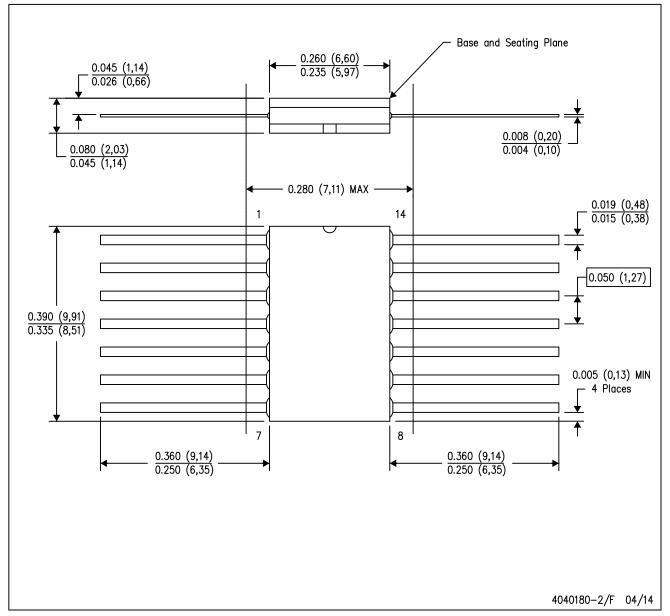


- A. All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



# W (R-GDFP-F14)

## CERAMIC DUAL FLATPACK



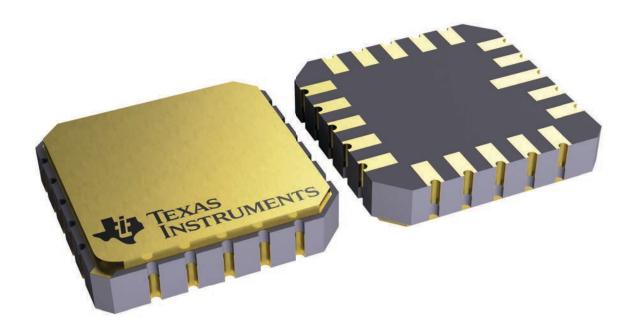
- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within MIL STD 1835 GDFP1-F14



8.89 x 8.89, 1.27 mm pitch

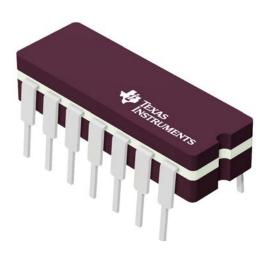
LEADLESS CERAMIC CHIP CARRIER

This image is a representation of the package family, actual package may vary. Refer to the product data sheet for package details.



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CERAMIC DUAL IN LINE PACKAGE



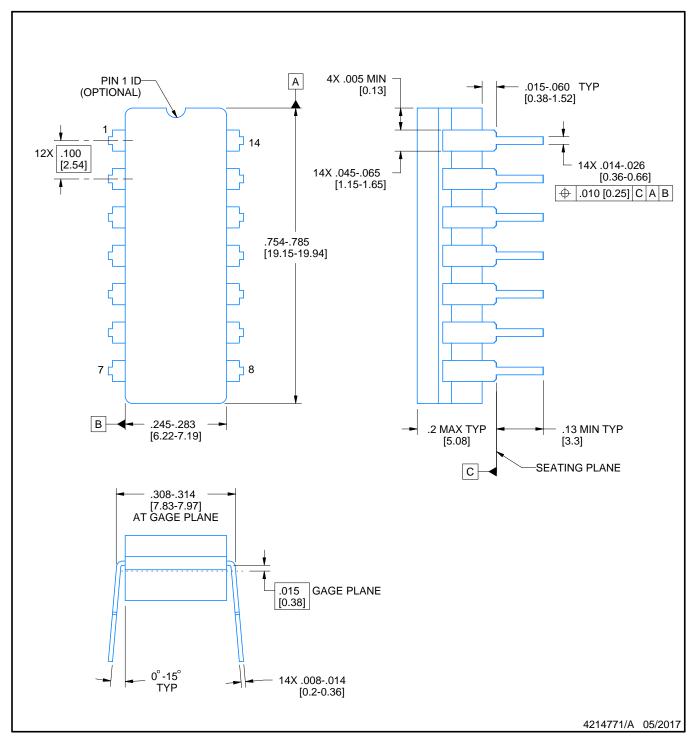
Images above are just a representation of the package family, actual package may vary. Refer to the product data sheet for package details.

4040083-5/G





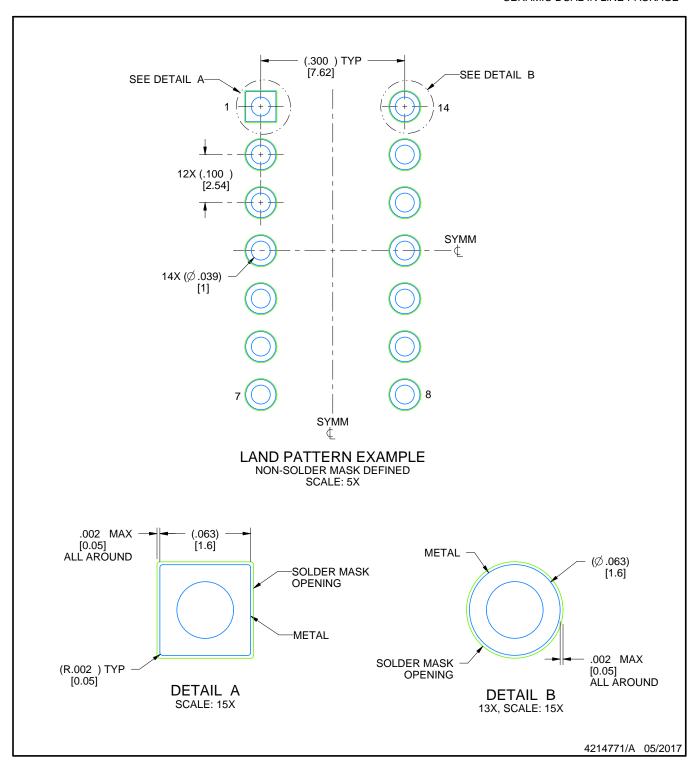
CERAMIC DUAL IN LINE PACKAGE



- 1. All controlling linear dimensions are in inches. Dimensions in brackets are in millimeters. Any dimension in brackets or parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
- 2. This drawing is subject to change without notice.
- 3. This package is hermitically sealed with a ceramic lid using glass frit.
- His package is remitted by sealed with a ceramic its using glass mit.
   Index point is provided on cap for terminal identification only and on press ceramic glass frit seal only.
   Falls within MIL-STD-1835 and GDIP1-T14.



CERAMIC DUAL IN LINE PACKAGE



## N (R-PDIP-T\*\*)

## PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- 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).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



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