

8-INPUT POSITIVE-NAND GATES

Check for Samples: [SN54ALS30A](#), [SN54AS30](#), [SN74ALS30A](#), [SN74AS30](#)

FEATURES

- 8-Input Positive-NAND Gates
- Available in J, DW, N, and FK Packages

DESCRIPTION

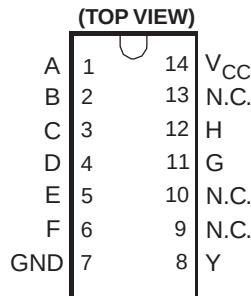
These devices contain an 8-input positive-NAND gate and perform the following Boolean functions in positive logic:

$$Y = \overline{A \cdot B \cdot C \cdot D \cdot E \cdot F \cdot G \cdot H}$$

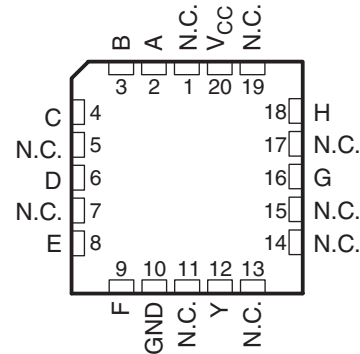
or

$$Y = \overline{A} + \overline{B} + \overline{C} + \overline{D} + \overline{E} + \overline{F} + \overline{G}$$

SN54ALS30A, SN54AS30 . . . J PACKAGE
SN74ALS30A, SN74AS30 . . . DW OR N PACKAGE
SN74AS30 . . . DB PACKAGE



SN54ALS30A, SN54AS30 . . . FK PACKAGE
(TOP VIEW)



N.C. – No internal connection

ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾ (2)		ORDERABLE PART NUMBER	TOP-SIDE MARKING
0°C to 70°C	PDIP – N	Tube	SN74ALS30AN	SN74ALS30AN
			SN74AS30N	SN74AS30N
	SOIC – D	Tube	SN74AS30AD	ALS30A
		Tape and reel	SN74ALS30ADR	
		Tube	SN74AS30D	AS30
		Tape and reel	SN74AS30DR	
–55°C to 125°C	SSOP – DB	Tape and reel	SN74AS30DBR	AS30
	CDIP – J	Tube	SNJ54ALS30AJ	SNJ54ALS30AJ
			SNJ54AS30J	SNJ54AS30J
	LCCC –FK	Tube	SNJ54ALS30AFK	SNJ54ALS30AFK
			SNJ54AS30FK	SNJ54AS30FK

(1) Package drawings, thermal data, and symbolization are available at www.ti.com/packaging.

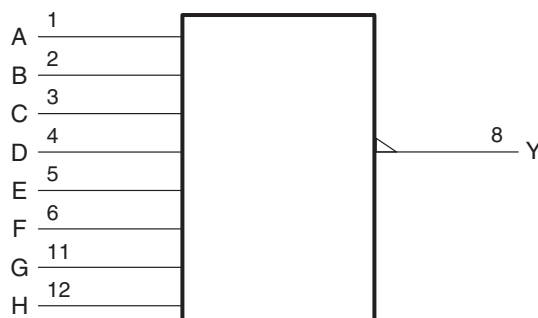
(2) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI website at www.ti.com.



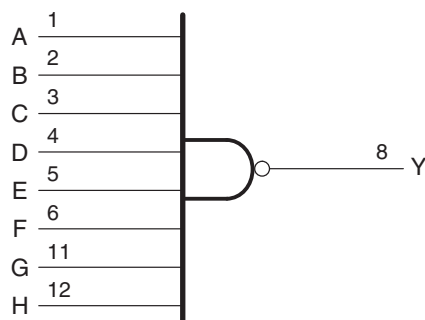
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet.

Table 1. FUNCTION TABLE

INPUTS A–H	OUTPUT Y
All inputs H	L
One or more inputs L	H

LOGIC SYMBOL

- A. This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.
Pin number shown are for the D, DB, J, and N packages.

LOGIC DIAGRAM (POSITIVE LOGIC)

Pin number shown are for the D, DB, J, and N packages.

ABSOLUTE MAXIMUM RATINGS⁽¹⁾

over operating free-air temperature range (unless otherwise noted)

		MIN	MAX	UNIT
V_{CC}	Supply voltage range	–0.5	7	V
V_I	Input voltage range	–0.5	7	V
θ_{JA}	Package thermal impedance ⁽²⁾	D package		86
		DB package		96
		N package		80
T_{stg}	Storage temperature range	–65	150	°C

- (1) 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.
- (2) The package thermal impedance is calculated in accordance with JESD 51-7.

RECOMMENDED OPERATING CONDITIONS

over operating free-air temperature range (unless otherwise noted)

		MIN	NOM	MAX	UNIT
V_{CC}	Supply voltage	4.5	5	5.5	V
V_{IH}	High-level input voltage	2			V
V_{IL}	Low-level input voltage			0.8 ⁽¹⁾	V
				0.7 ⁽²⁾	
I_{OH}	High-level output current	'ALS30A		–0.4	mA
		'AS30		–2	
I_{OL}	Low-level output current	SN54ALS30A		4	mA
		SN74ALS30A		8	
		'AS30		20	
T_A	Operating free-air temperature	SN54ALS30A, SN54AS30		–55	°C
		SN74ALS30A, SN74AS30		0	

- (1) Applies to the 'AS30 and SN74ALS30A across the full operating temperature range, and SN54ALS30A over the temperature range of –55°C to 7°C.
- (2) Applies to the SN54ALS30A over the temperature range of 70°C to 125°C.

ELECTRICAL CHARACTERISTICS

over operating free-air temperature range (unless otherwise noted)

PARAMETER	TEST CONDITIONS		MIN	TYP ⁽¹⁾	MAX	UNIT
V_{IK}	$V_{CC} = 4.5\text{ V}$,	$I_I = -18\text{ mA}$	'ALS30A 'AS30		–1.5	V
V_{OH}	$V_{CC} = 4.5\text{ V to } 5.5\text{ V}$,	$I_{OH} = -0.4\text{ mA}$	'ALS30A	$V_{CC} - 2$		V
		$I_{OH} = -2\text{ mA}$	'AS30	$V_{CC} - 2$		
V_{OL}	$V_{CC} = 4.5\text{ V}$	$I_{OL} = 4\text{ mA}$	'ALS30A	0.25	0.4	V
		$I_{OL} = 8\text{ mA}$	SN74ALS30A	0.35	0.5	
		$I_{OL} = 20\text{ mA}$	'AS30	0.35	0.5	
I_I	$V_{CC} = 5.5\text{ V}$,	$V_I = 7\text{ V}$			0.1	mA
I_{IH}	$V_{CC} = 5.5\text{ V}$,	$V_I = 2.7\text{ V}$			20	μA
I_{IL}	$V_{CC} = 5.5\text{ V}$,	$V_I = 0.4\text{ V}$	'ALS30A		–0.1	mA
			'AS30		–0.5	
$I_O^{(2)}$	$V_{CC} = 5.5\text{ V}$,	$V_O = 2.25\text{ V}$	SN54ALS30A	–20	–112	mA
			SN74ALS30A	–30	–112	
			'AS30	–30	–112	
I_{CCH}	$V_{CC} = 5.5\text{ V}$,	$V_I = 0\text{ V}$	'ALS30A	0.22	0.36	mA
			'AS30	0.9	1.5	
I_{CCL}	$V_{CC} = 5.5\text{ V}$,	$V_I = 4.5\text{ V}$	'ALS30A	0.54	0.9	mA
			'AS30	3	4.9	

- (1) All typical values are at $V_{CC} = 5\text{ V}$, $T_A = 25^\circ\text{C}$.
- (2) The output conditions have been chosen to produce a current that closely approximates one half of the true short-circuit output current, I_{OS} .

SWITCHING CHARACTERISTICS

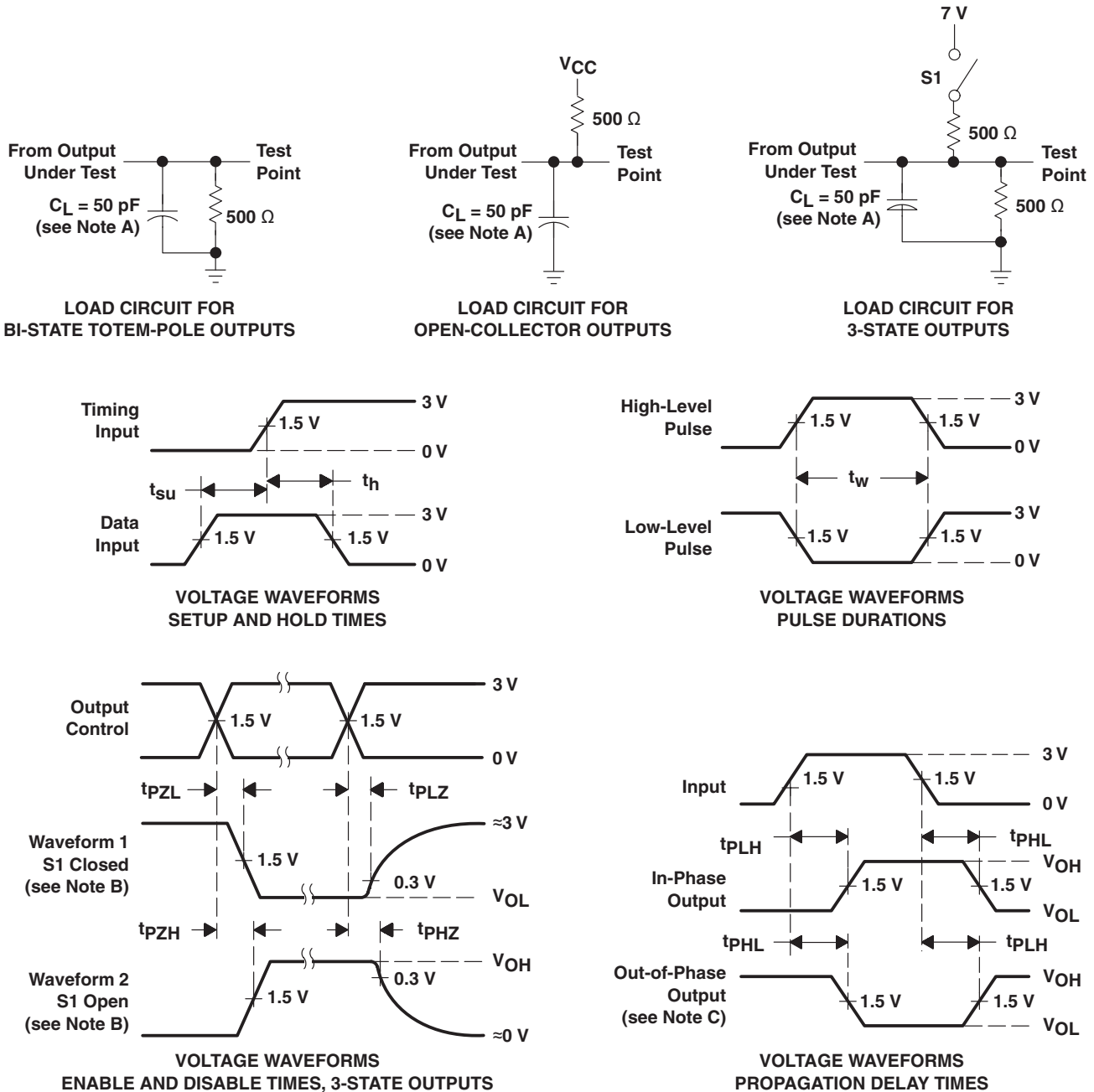
over recommended operating conditions (unless otherwise noted (see [Figure 1](#)))

PARAMETER	FROM (INPUT)	TO (OUTPUT)		MIN	MAX	UNIT
t_{PLH}	A, B, C, D, E, F, G, or H	Y	SN54ALS30A	3	15	ns
			SN74ALS30A	3	10	
			SN54AS30	1	5.5	
			SN74AS30	1	5	

SWITCHING CHARACTERISTICS (continued)over recommended operating conditions (unless otherwise noted (see [Figure 1](#)))

PARAMETER	FROM (INPUT)	TO (OUTPUT)		MIN	MAX	UNIT
t_{PHL}	A, B, C, D, E, F, G, or H	Y	SN54ALS30A	3	15	ns
			SN74ALS30A	3	12	
			SN54AS30	1	5	
			SN74AS30	1	4.5	

PARAMETER MEASUREMENT INFORMATION



- C_L includes probe and jig capacitance.
- Waveform 1 is for an output with internal conditions such that the output is low except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high except when disabled by the output control.
- When measuring propagation delay items of 3-state outputs, switch S1 is open.
- All input pulses have the following characteristics: $PRR \leq 1$ MHz, $t_r = t_f = 2$ ns, duty cycle = 50%.
- The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuits and Voltage Waveforms

REVISION HISTORY

Changes from Original (April 2009) to Revision E	Page
• Updated ORDERING INFORMATION table.	1

PACKAGING INFORMATION

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
5962-86837012A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 86837012A SNJ54ALS 30AFK
5962-8683701DA	Active	Production	CFP (W) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-8683701DA SNJ54ALS30AW
5962-9755801QCA	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9755801QC A SNJ54AS30J
JM38510/37004B2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 37004B2A
JM38510/37004B2A.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 37004B2A
JM38510/37004BCA	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 37004BCA
JM38510/37004BCA.A	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 37004BCA
M38510/37004B2A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 37004B2A
M38510/37004BCA	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	JM38510/ 37004BCA
SN54ALS30AJ	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54ALS30AJ
SN54ALS30AJ.A	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SN54ALS30AJ
SN74ALS30AD	Obsolete	Production	SOIC (D) 14	-	-	Call TI	Call TI	0 to 70	ALS30A
SN74ALS30ADB	Active	Production	SSOP (DB) 14	80 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	-	G30A
SN74ALS30ADB.A	Active	Production	SSOP (DB) 14	80 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	G30A
SN74ALS30ADBE4	Active	Production	SSOP (DB) 14	80 TUBE	Yes	NIPDAU	Level-1-260C-UNLIM	See SN74ALS30ADB	G30A
SN74ALS30ADR	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS30A
SN74ALS30ADR.A	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	ALS30A
SN74ALS30AN	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS30AN
SN74ALS30AN.A	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74ALS30AN
SN74AS30DR	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	AS30

Orderable part number	Status (1)	Material type (2)	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material (4)	MSL rating/ Peak reflow (5)	Op temp (°C)	Part marking (6)
SN74AS30DR.A	Active	Production	SOIC (D) 14	2500 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	0 to 70	AS30
SN74AS30N	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74AS30N
SN74AS30N.A	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	0 to 70	SN74AS30N
SNJ54ALS30AFK	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 86837012A SNJ54ALS 30AFK
SNJ54ALS30AFK.A	Active	Production	LCCC (FK) 20	55 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962- 86837012A SNJ54ALS 30AFK
SNJ54ALS30AJ	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54ALS30AJ
SNJ54ALS30AJ.A	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	SNJ54ALS30AJ
SNJ54ALS30AW	Active	Production	CFP (W) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-8683701DA SNJ54ALS30AW
SNJ54ALS30AW.A	Active	Production	CFP (W) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-8683701DA SNJ54ALS30AW
SNJ54AS30J	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9755801QC A SNJ54AS30J
SNJ54AS30J.A	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	5962-9755801QC A SNJ54AS30J

⁽¹⁾ **Status:** For more details on status, see our [product life cycle](#).

⁽²⁾ **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.

⁽³⁾ **RoHS values:** Yes, No, RoHS Exempt. See the [TI RoHS Statement](#) for additional information and value definition.

⁽⁴⁾ **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.

⁽⁵⁾ **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.

⁽⁶⁾ **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.

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.

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OTHER QUALIFIED VERSIONS OF SN54ALS30A, SN54AS30, SN74ALS30A, SN74AS30 :

- Catalog : [SN74ALS30A](#), [SN74AS30](#)
- Military : [SN54ALS30A](#), [SN54AS30](#)

NOTE: Qualified Version Definitions:

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

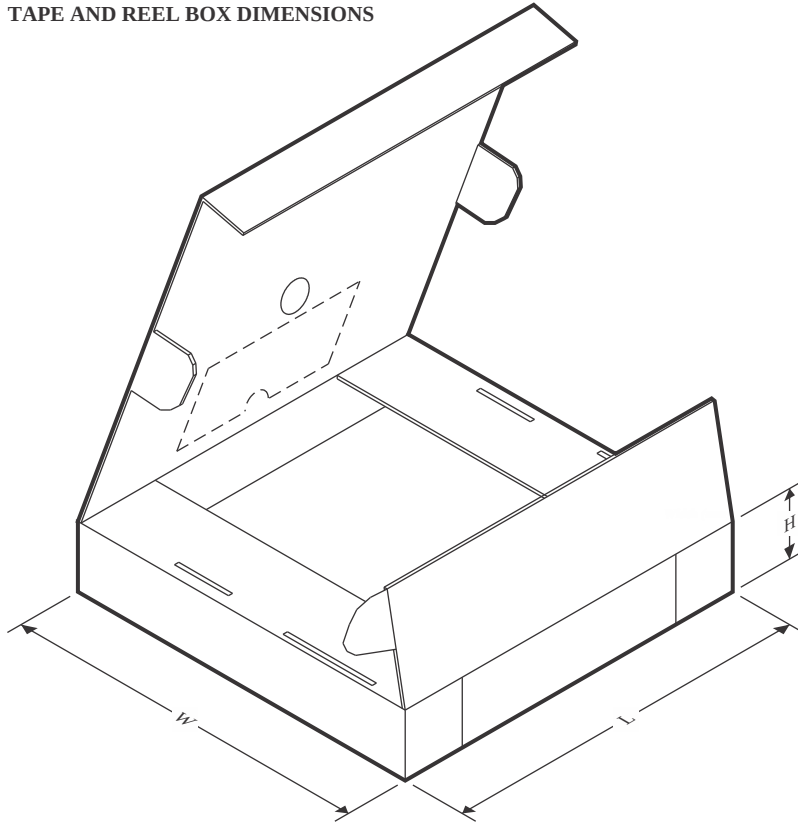
TAPE AND REEL INFORMATION



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74ALS30ADR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN74AS30DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1

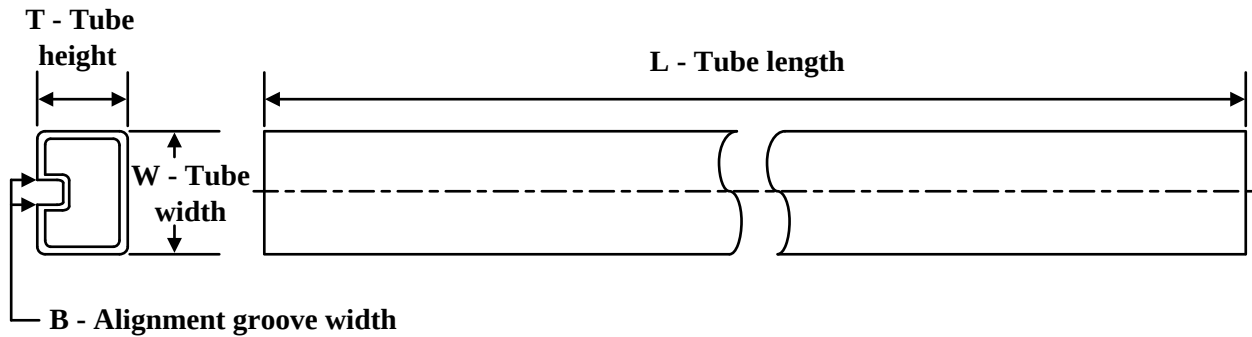
TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ALS30ADR	SOIC	D	14	2500	353.0	353.0	32.0
SN74AS30DR	SOIC	D	14	2500	353.0	353.0	32.0

TUBE

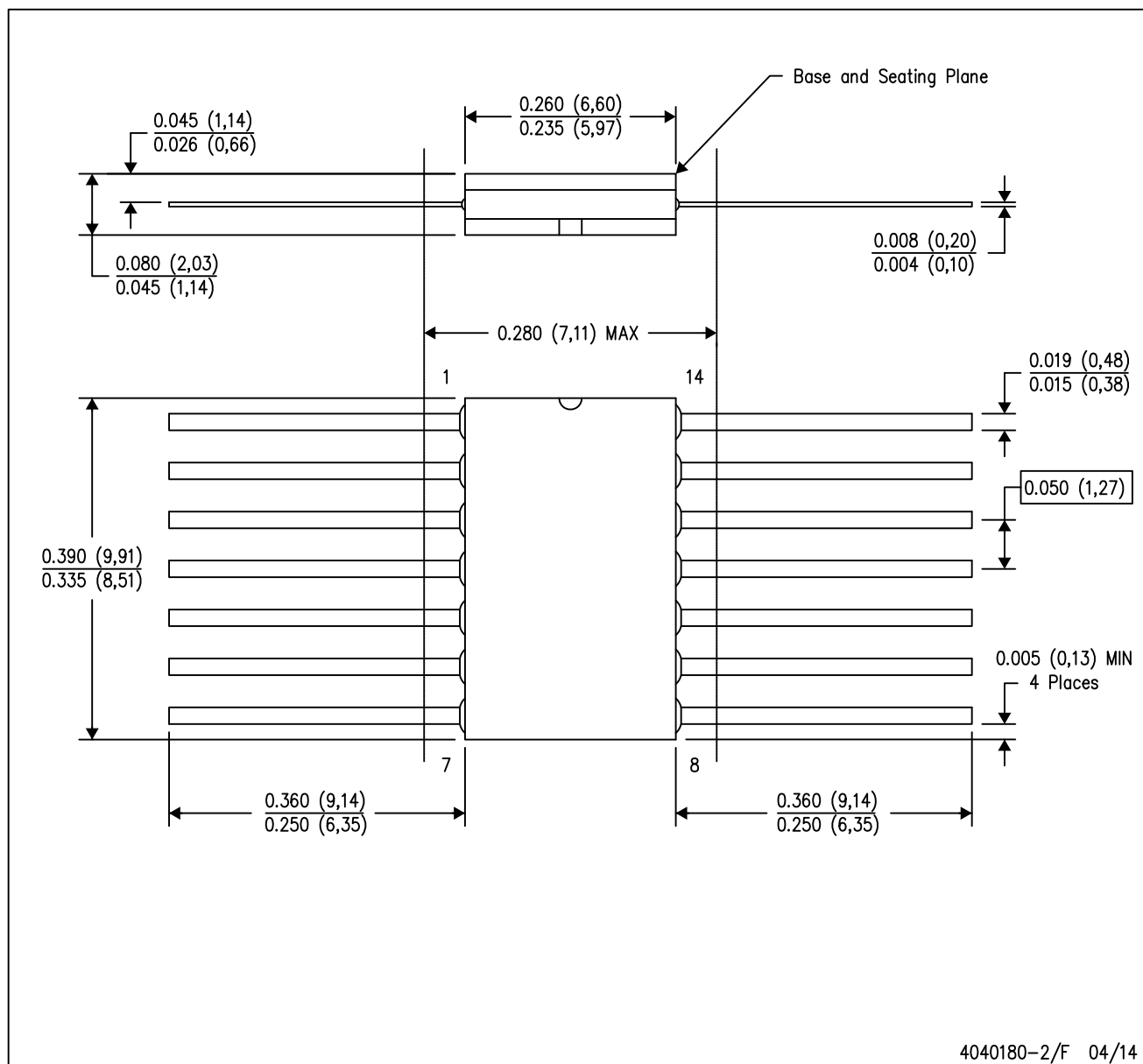


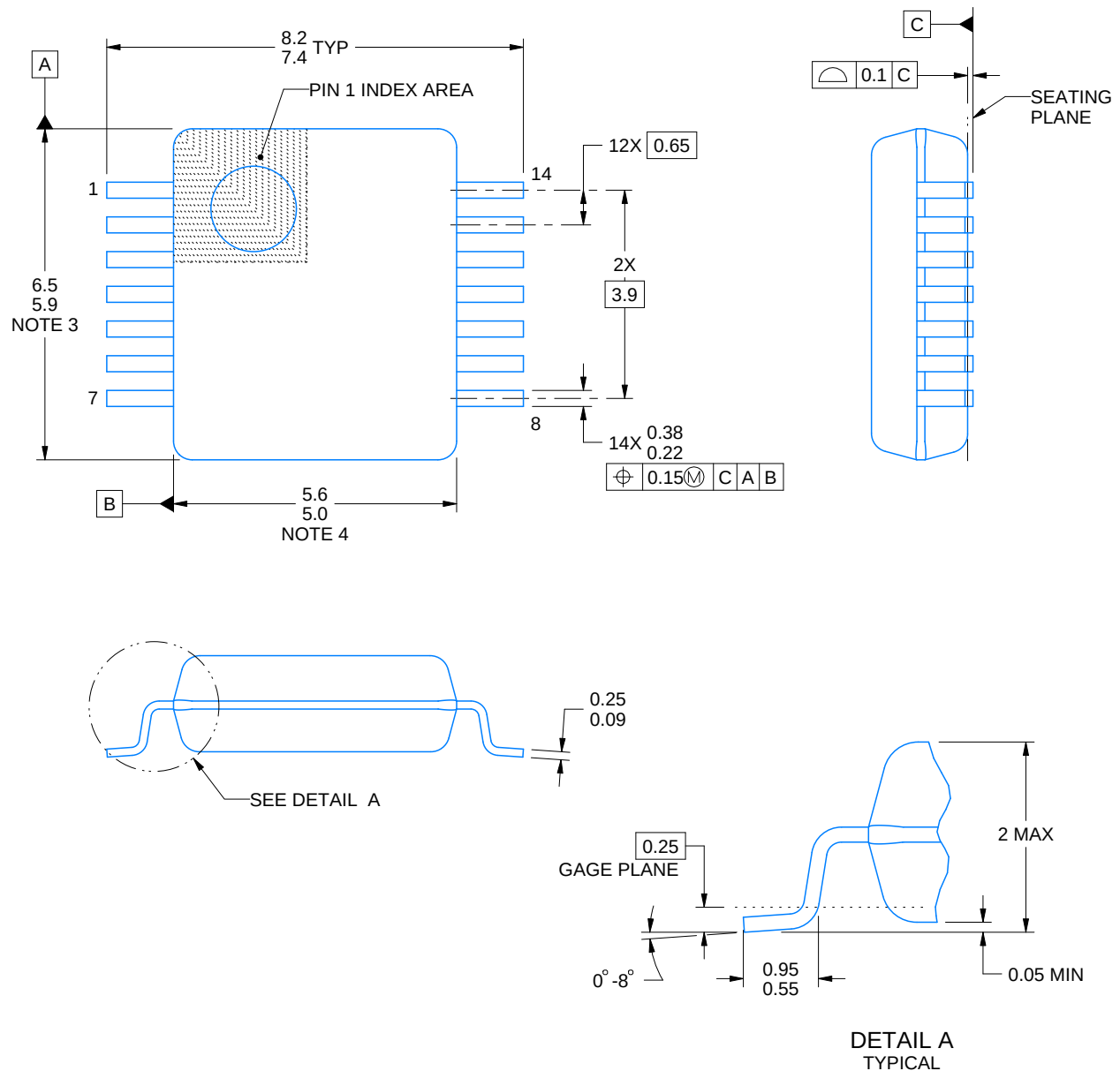
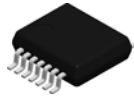
*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (μm)	B (mm)
5962-86837012A	FK	LCCC	20	55	506.98	12.06	2030	NA
5962-8683701DA	W	CFP	14	25	506.98	26.16	6220	NA
JM38510/37004B2A	FK	LCCC	20	55	506.98	12.06	2030	NA
JM38510/37004B2A.A	FK	LCCC	20	55	506.98	12.06	2030	NA
M38510/37004B2A	FK	LCCC	20	55	506.98	12.06	2030	NA
SN74ALS30ADB	DB	SSOP	14	80	530	10.5	4000	4.1
SN74ALS30ADB.A	DB	SSOP	14	80	530	10.5	4000	4.1
SN74ALS30ADBE4	DB	SSOP	14	80	530	10.5	4000	4.1
SN74ALS30AN	N	PDIP	14	25	506	13.97	11230	4.32
SN74ALS30AN	N	PDIP	14	25	506	13.97	11230	4.32
SN74ALS30AN.A	N	PDIP	14	25	506	13.97	11230	4.32
SN74ALS30AN.A	N	PDIP	14	25	506	13.97	11230	4.32
SN74AS30N	N	PDIP	14	25	506	13.97	11230	4.32
SN74AS30N	N	PDIP	14	25	506	13.97	11230	4.32
SN74AS30N.A	N	PDIP	14	25	506	13.97	11230	4.32
SN74AS30N.A	N	PDIP	14	25	506	13.97	11230	4.32
SNJ54ALS30AFK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54ALS30AFK.A	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54ALS30AW	W	CFP	14	25	506.98	26.16	6220	NA
SNJ54ALS30AW.A	W	CFP	14	25	506.98	26.16	6220	NA

W (R-GDFP-F14)

CERAMIC DUAL FLATPACK





4220762/A 05/2024

NOTES:

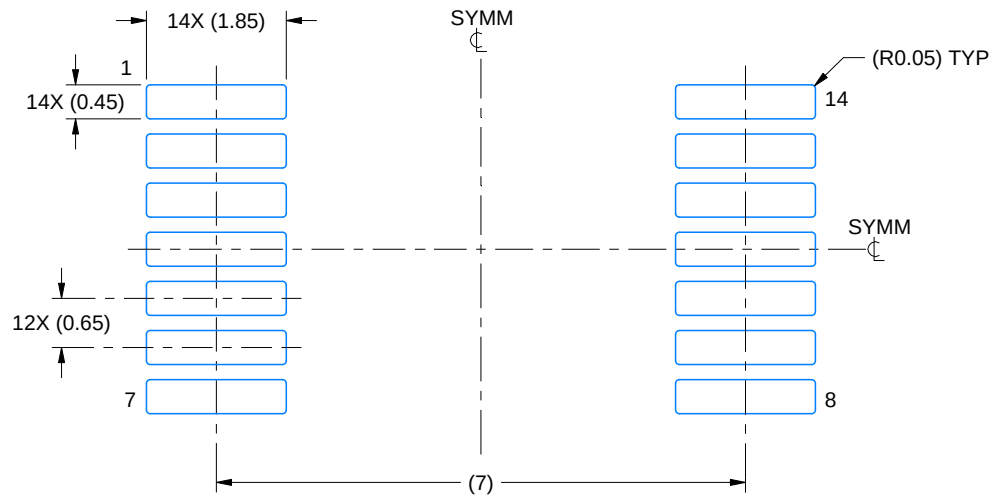
1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.
3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.15 mm per side.
4. Reference JEDEC registration MO-150.

EXAMPLE BOARD LAYOUT

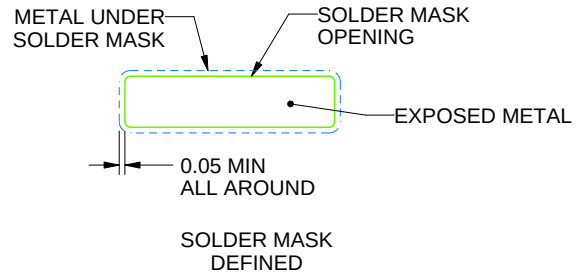
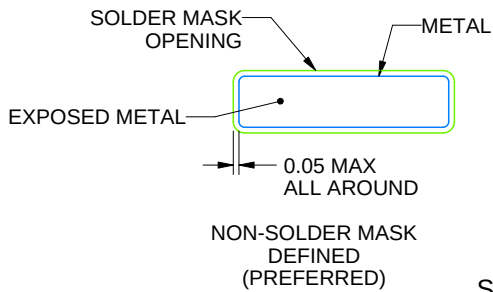
DB0014A

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



LAND PATTERN EXAMPLE
EXPOSED METAL SHOWN
SCALE: 10X



SOLDER MASK DETAILS

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NOTES: (continued)

5. Publication IPC-7351 may have alternate designs.

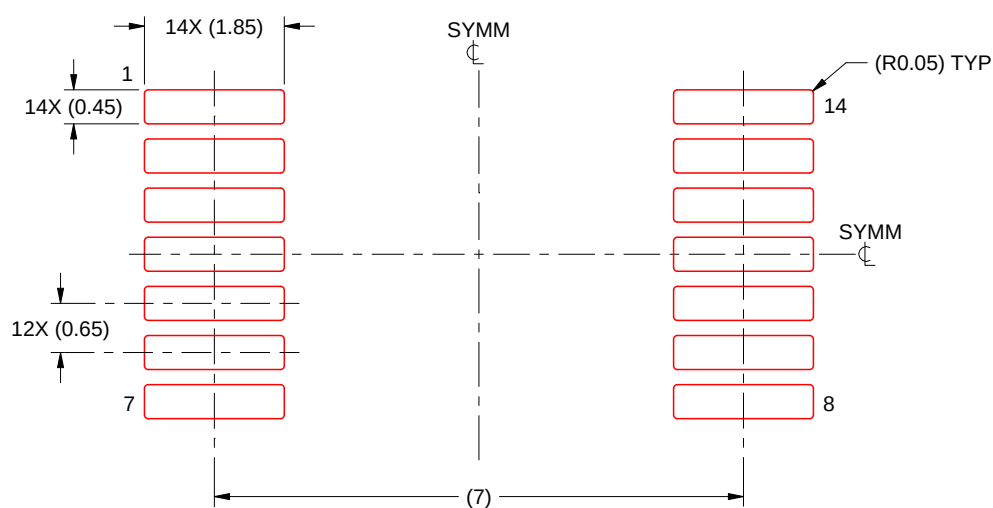
6. Solder mask tolerances between and around signal pads can vary based on board fabrication site.

EXAMPLE STENCIL DESIGN

DB0014A

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



SOLDER PASTE EXAMPLE
BASED ON 0.125 mm THICK STENCIL
SCALE: 10X

4220762/A 05/2024

NOTES: (continued)

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

GENERIC PACKAGE VIEW

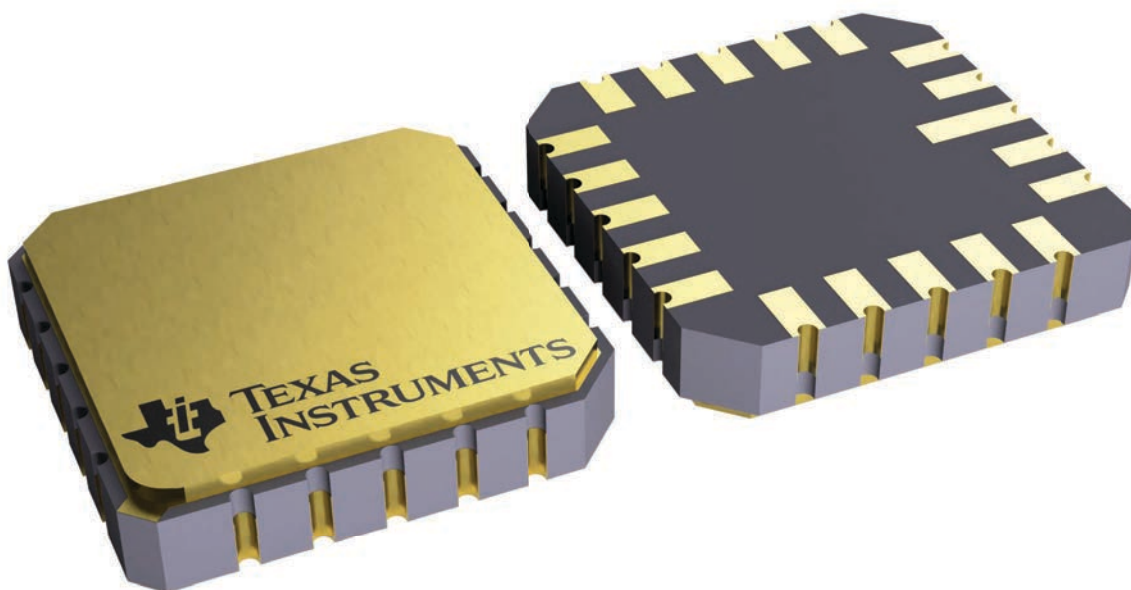
FK 20

LCCC - 2.03 mm max height

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.



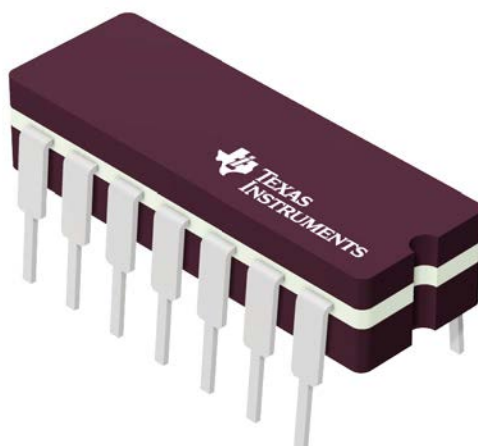
4229370VA\

J 14

GENERIC PACKAGE VIEW

CDIP - 5.08 mm max height

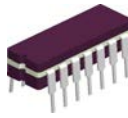
CERAMIC DUAL IN LINE PACKAGE



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

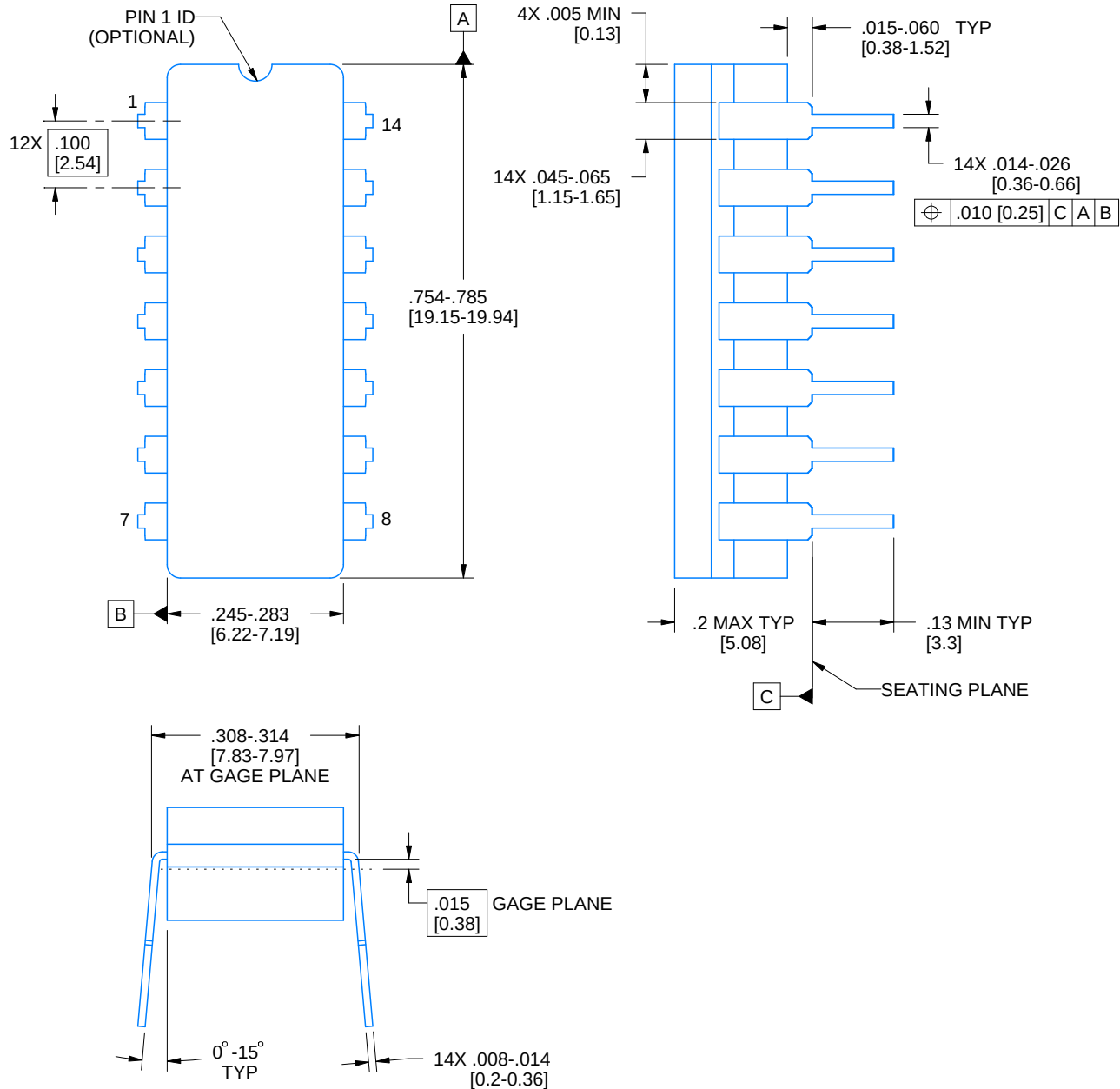
J0014A



PACKAGE OUTLINE

CDIP - 5.08 mm max height

CERAMIC DUAL IN LINE PACKAGE



4214771/A 05/2017

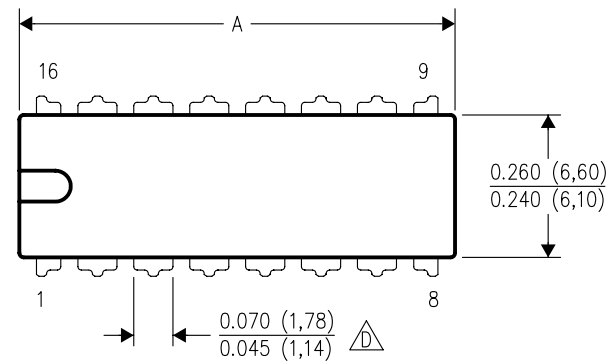
NOTES:

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 hermetically sealed with a ceramic lid using glass frit.
4. Index point is provided on cap for terminal identification only and on press ceramic glass frit seal only.
5. Falls within MIL-STD-1835 and GDIP1-T14.

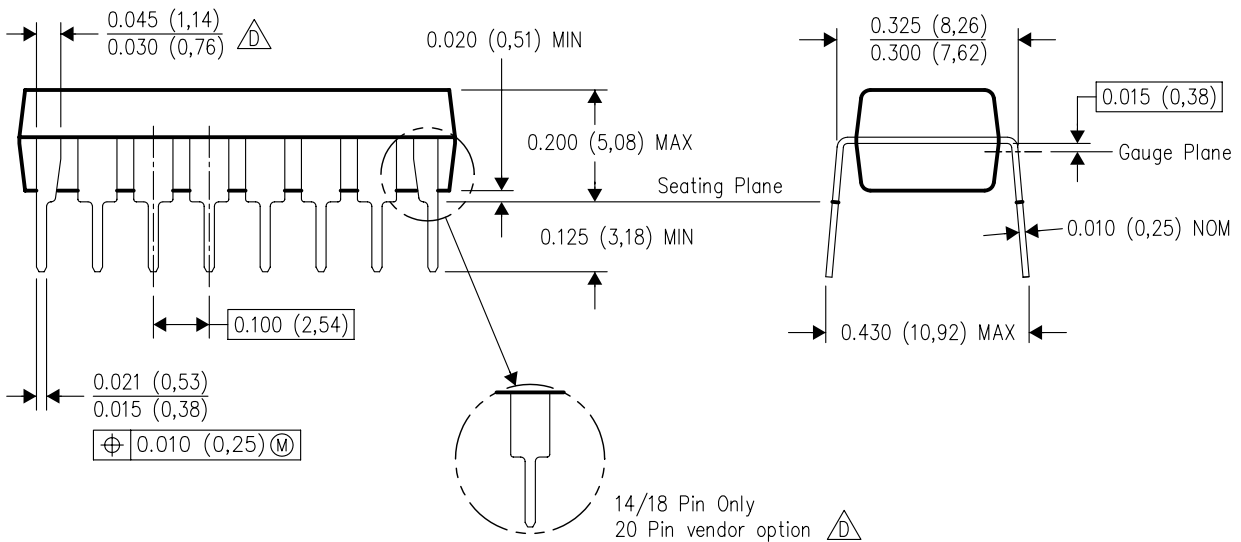
N (R-PDIP-T**)

16 PINS SHOWN

PLASTIC DUAL-IN-LINE PACKAGE



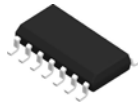
PINS **	14	16	18	20
DIM				
A MAX	0.775 (19,69)	0.775 (19,69)	0.920 (23,37)	1.060 (26,92)
A MIN	0.745 (18,92)	0.745 (18,92)	0.850 (21,59)	0.940 (23,88)
MS-001 VARIATION	AA	BB	AC	AD



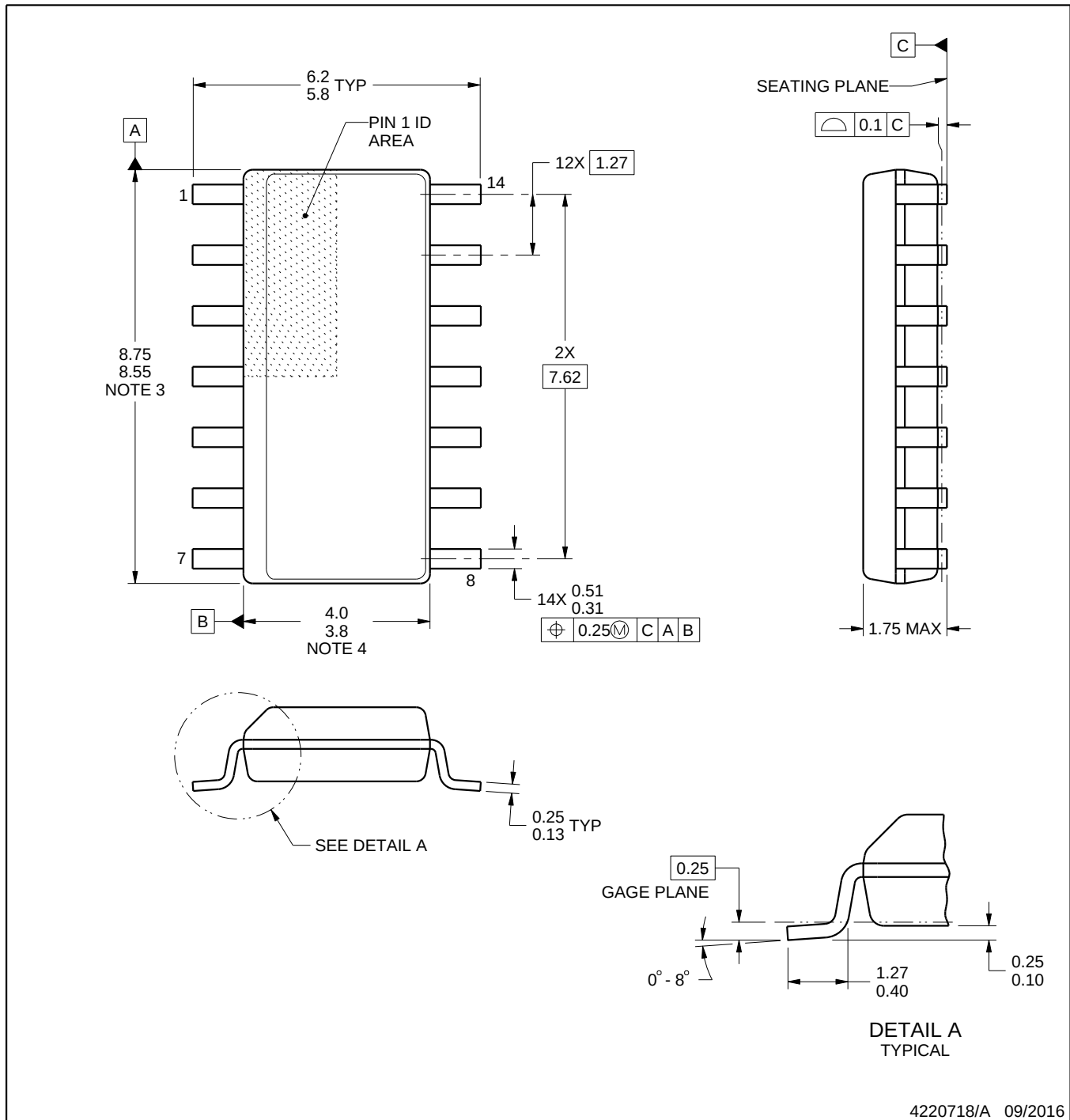
14/18 Pin Only
20 Pin vendor option

4040049/E 12/2002

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

D0014A**PACKAGE OUTLINE****SOIC - 1.75 mm max height**

SMALL OUTLINE INTEGRATED CIRCUIT



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NOTES:

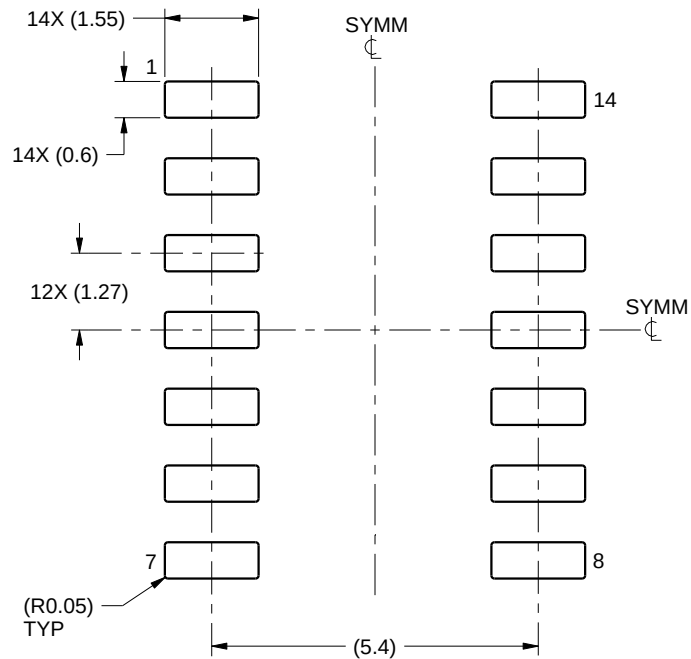
1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.
3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate 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.

EXAMPLE BOARD LAYOUT

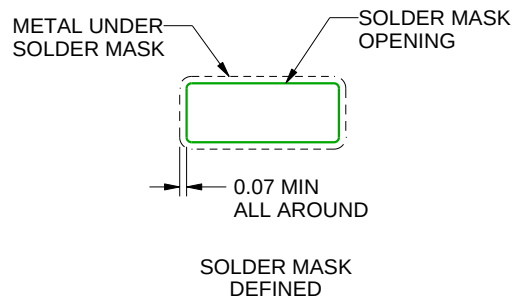
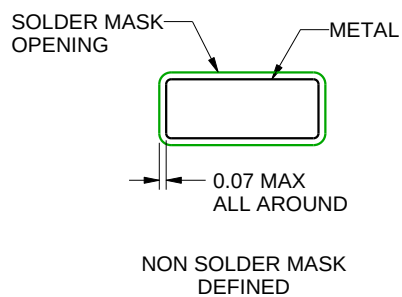
D0014A

SOIC - 1.75 mm max height

SMALL OUTLINE INTEGRATED CIRCUIT



LAND PATTERN EXAMPLE
SCALE:8X



SOLDER MASK DETAILS

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NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

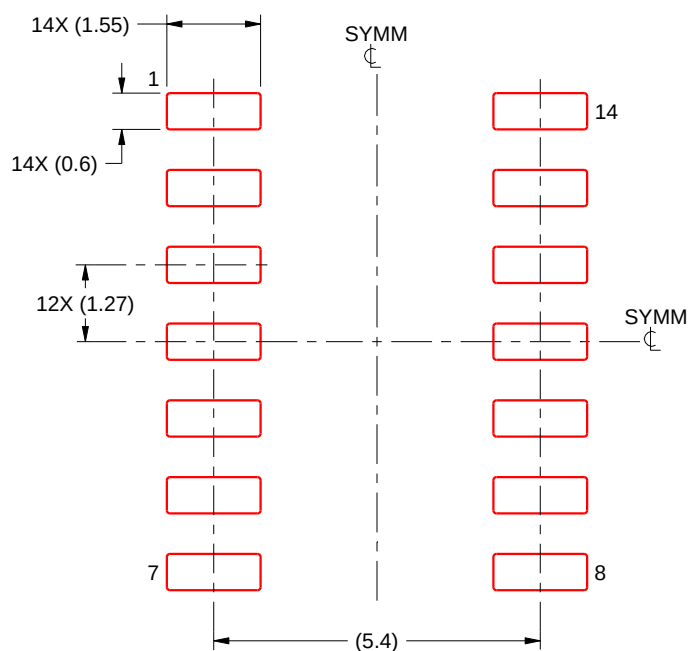
7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.

EXAMPLE STENCIL DESIGN

D0014A

SOIC - 1.75 mm max height

SMALL OUTLINE INTEGRATED CIRCUIT



SOLDER PASTE EXAMPLE
BASED ON 0.125 mm THICK STENCIL
SCALE:8X

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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.

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