SN54ABT2240A, SN74ABT2240A OCTAL BUFFERS AND LINE/MOS DRIVERS WITH 3-STATE OUTPUTS

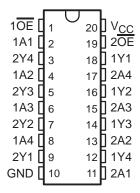
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- Output Ports Have Equivalent 25-Ω Series Resistors, So No External Resistors Are Required
- State-of-the-Art EPIC-IIB™ BiCMOS Design Significantly Reduces Power Dissipation
- Typical V_{OLP} (Output Ground Bounce) < 1 V at V_{CC} = 5 V, T_A = 25°C
- Latch-Up Performance Exceeds 500 mA Per JESD 17
- ESD Protection Exceeds 2000 V Per MIL-STD-883, Method 3015; Exceeds 200 V Using Machine Model (C = 200 pF, R = 0)
- Package Options Include Plastic Small-Outline (DW), Shrink Small-Outline (DB), and Thin Shrink Small-Outline (PW) Packages, Ceramic Chip Carriers (FK), Plastic (N) and Ceramic (J) DIPs, and Ceramic Flat (W) Package

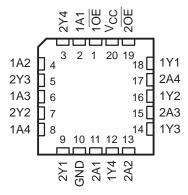
description

These octal buffers and line drivers are designed specifically to improve both the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters. Together with the 'ABT2241 and 'ABT2244A, these devices provide combinations of inverting and noninverting outputs, symmetrical active-low output-enable (\overline{OE}) inputs, and complementary OE and \overline{OE} inputs. These devices feature high fan-out and improved fan-in.

SN54ABT2240A . . . J OR W PACKAGE SN74ABT2240A . . . DB, DW, N, OR PW PACKAGE (TOP VIEW)



SN54ABT2240A ... FK PACKAGE (TOP VIEW)



These devices are organized as two 4-bit line drivers with separate \overline{OE} inputs. When \overline{OE} is low, the devices pass inverted data from the A inputs to the Y outputs. When \overline{OE} is high, the outputs are in the high-impedance state.

The outputs, which are designed to sink up to 12 mA, include equivalent 25- Ω series resistors to reduce overshoot and undershoot.

To ensure the high-impedance state during power up or power down, \overline{OE} should be tied to V_{CC} through a pullup resistor; the minimum value of the resistor is determined by the current-sinking capability of the driver.

The SN54ABT2240A is characterized for operation over the full military temperature range of –55°C to 125°C. The SN74ABT2240A is characterized for operation from –40°C to 85°C.



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.

EPIC-IIB is a trademark of Texas Instruments Incorporated.

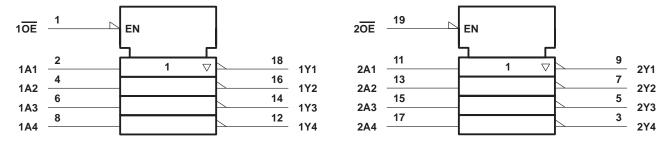


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FUNCTION TABLE (each buffer)

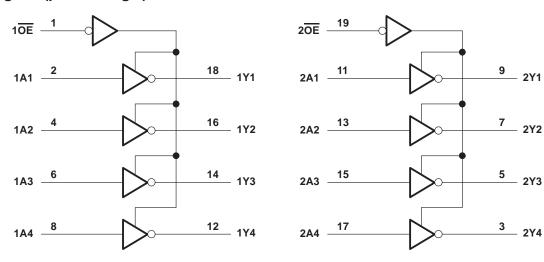
INPU	JTS	OUTPUT
OE	Α	Υ
L	Н	L
L	L	Н
Н	Χ	Z

logic symbol†



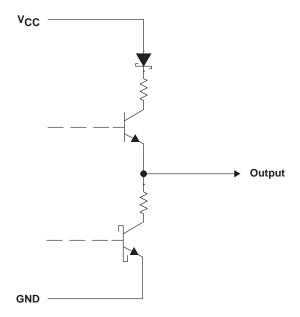
[†] This symbol is in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12.

logic diagram (positive logic)



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schematic of Y outputs



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

Supply voltage range, V _{CC}	or power-off state, V _O	0.5 V to 7 V 0.5 V to 5.5 V
Current into any output in the low state, I_O Input clamp current, I_{IK} ($V_I < 0$)		
Output clamp current, I _{OK} (V _O < 0)		–50 mA
Package thermal impedance, θ_{JA} (see Note 2)	: DB package	115°C/W
	DW package	97°C/W
	N package	67°C/W
	PW package	128°C/W
Storage temperature range, T _{sto}		

[†] 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. The input and output negative-voltage ratings may be exceeded if the input and output clamp-current ratings are observed.

2. The package thermal impedance is calculated in accordance with JESD 51, except for through-hole packages, which use a trace length of zero.



SN54ABT2240A, SN74ABT2240A OCTAL BUFFERS AND LINE/MOS DRIVERS WITH 3-STATE OUTPUTS

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recommended operating conditions (see Note 3)

			SN54ABT	2240A	SN74ABT	72240A	UNIT
			MIN	MAX	MIN	MAX	UNIT
VCC	Supply voltage		4.5	5.5	4.5	5.5	V
VIH	High-level input voltage	2		2		V	
VIL	Low-level input voltage		0.8		0.8	V	
٧ _I	Input voltage		0	VCC	0	Vcc	V
loh	High-level output current			-24		-32	mA
loL	Low-level output current			12		12	mA
Δt/Δν	Input transition rise or fall rate	Outputs enabled		5		5	ns/V
TA	Operating free-air temperature		– 55	125	-40	85	°C

NOTE 3: All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

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

PARAM	AETED	TEST COI	NOITIONS	Т	A = 25°C	;	SN54AB1	Г2240A	SN74ABT	2240A	UNIT	
PARA	VIETER	l lesi coi	NUTTIONS	MIN	TYP†	MAX	MIN	MAX	MIN	MAX	UNII	
VIK		V _{CC} = 4.5 V,	I _I = -18 mA			-1.2		-1.2		-1.2	V	
		$V_{CC} = 4.5 \text{ V},$	$I_{OH} = -3 \text{ mA}$	2.5			2.5		2.5			
\		V _{CC} = 5 V,	$I_{OH} = -3 \text{ mA}$	3			3		3		V	
VOH	V _{CC} = 4.5 V		I _{OH} = -24 mA	2			2				V	
		VCC = 4.5 V	$I_{OH} = -32 \text{ mA}$	2*					2			
VOL		$V_{CC} = 4.5 \text{ V},$	I _{OL} = 12 mA			0.8		0.8		0.8	V	
V _{hys}					100						mV	
II		$V_{CC} = 5.5 \text{ V},$	$V_I = V_{CC}$ or GND			±1		±1		±1	μΑ	
lozh		V _{CC} = 5.5 V,	V _O = 2.7 V			10*		10		10	μΑ	
lozL		V _{CC} = 5.5 V,	V _O = 0.5 V			-10*		-10		-10	μΑ	
l _{off}		$V_{CC} = 0$,	V_I or $V_O \le 4.5 \text{ V}$			±100				±100	μΑ	
ICEX		V _C C = 5.5 V, V _O = 5.5 V	Outputs high			50		50		50	μΑ	
l _O ‡		V _{CC} = 5.5 V,	V _O = 2.5 V	-50	-100	-180	-50	-180	-50	-180	mA	
			Outputs high		1	250		250		250	μΑ	
Icc		$V_{CC} = 5.5 \text{ V}, I_{O} = 0,$ $V_{I} = V_{CC} \text{ or GND}$	Outputs low		24	30		30		30	mA	
		V1 = VCC 01 011B	Outputs disabled		0.5	250		250		250	μΑ	
	Data	V _{CC} = 5.5 V, One input at 3.4 V,	Outputs enabled			1.5		1.5		1.5		
Δlcc§	inputs	Other inputs at VCC or GND	Outputs disabled			0.05		0.05		0.05	mA	
	Control V _{CC} = 5.5 V, One input inputs Other inputs at V _{CC} or					1.5		1.5		1.5		
Ci	•	V _I = 2.5 V or 0.5 V			4						pF	
Со		V _O = 2.5 V or 0.5 V			7						pF	

^{*} On products compliant to MIL-PRF-38535, this parameter does not apply.



[†] All typical values are at $V_{CC} = 5 \text{ V}$.

[‡] Not more than one output should be tested at a time, and the duration of the test should not exceed one second.

[§] This is the increase in supply current for each input that is at the specified TTL voltage level rather than V_{CC} or GND.

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switching characteristics over recommended ranges of supply voltage and operating free-air temperature, C_L = 50 pF (unless otherwise noted) (see Figure 1)

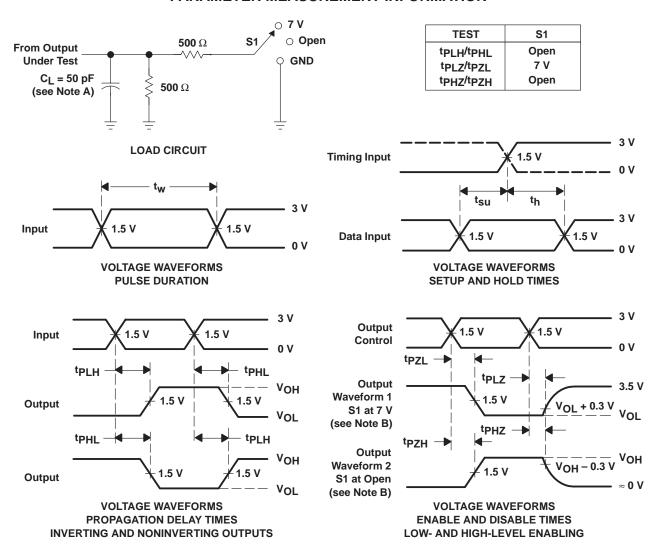
PARAMETER	FROM (INPUT)	TO (OUTPUT)	V ₍	CC = 5 V A = 25°C	', ;	MIN	MAX	UNIT
			MIN	TYP	MAX			
t _{PLH}	A	V	1	3	4	1	5	ns
^t PHL		'	2.1	4.8	5.8	2.1	6.3	115
^t PZH	ŌĒ		1.5	3.7	4.7	1.5	6.1	ns
t _{PZL}	OE	ı	1.7	6.5	7.6	1.7	8.8	115
^t PHZ	ŌĒ	_	1.8	3.8	6.4	1.5	6.8	ns
^t PLZ	OE .	ı	1	4.7	5.8	1	6.9	115

switching characteristics over recommended ranges of supply voltage and operating free-air temperature, C_L = 50 pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V ₍	CC = 5 V A = 25°C	/, ;	MIN	MAX	UNIT
				TYP	MAX			1 1
t _{PLH}	- А	V	1	3	4.1	1	4.8	no
t _{PHL}		'	2.1	4.1	5.1	2.1	5.4	ns
^t PZH	ŌĒ	V	1.1	3.1	4.7	1.1	5.2	20
t _{PZL}	OE	ī	1.7	4.5	6.4	1.7	6.8	ns
t _{PHZ}	ŌĒ	V	1.8	3.4	5.7	1.8	6.4	ns
t _{PLZ}	OE	Y	1.9	3.6	6	1.9	6.2	115

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PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L includes probe and jig capacitance.

- B. 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.
- C. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, Z_{Q} = 50 Ω , $t_{f} \leq$ 2.5 ns, $t_{f} \leq$ 2.5 ns.
- D. The outputs are measured one at a time with one transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms



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PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead finish/ Ball material	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
5962-9469701Q2A	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9469701Q2A SNJ54ABT 2240AFK	Samples
5962-9469701QRA	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9469701QR A SNJ54ABT2240AJ	Samples
SN74ABT2240ADBR	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AA240A	Samples
SN74ABT2240ADW	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT2240A	Samples
SN74ABT2240ADWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT2240A	Samples
SN74ABT2240AN	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74ABT2240AN	Samples
SN74ABT2240ANSR	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ABT2240A	Samples
SN74ABT2240APW	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AA240A	Samples
SN74ABT2240APWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AA240A	Samples
SNJ54ABT2240AFK	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9469701Q2A SNJ54ABT 2240AFK	Samples
SNJ54ABT2240AJ	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9469701QR A SNJ54ABT2240AJ	Samples

⁽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.

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.

PACKAGE OPTION ADDENDUM

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(2) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (Cl) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

- (3) MSL, Peak Temp. The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) Multiple Device Markings will be inside parentheses. Only one Device Marking contained in parentheses and separated by a "~" will appear on a device. If a line is indented then it is a continuation of the previous line and the two combined represent the entire Device Marking for that device.
- (6) Lead finish/Ball material Orderable Devices 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.

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OTHER QUALIFIED VERSIONS OF SN54ABT2240A, SN74ABT2240A:

Catalog: SN74ABT2240A

Military: SN54ABT2240A

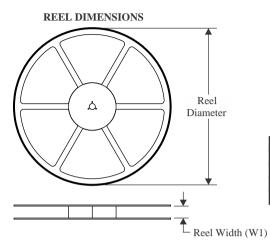
NOTE: Qualified Version Definitions:

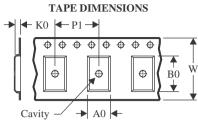
- Catalog TI's standard catalog product
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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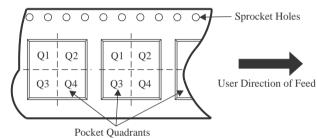
TAPE AND REEL INFORMATION





	-
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
SN74ABT2240ADBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ABT2240ADWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ABT2240ANSR	SO	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ABT2240APWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1

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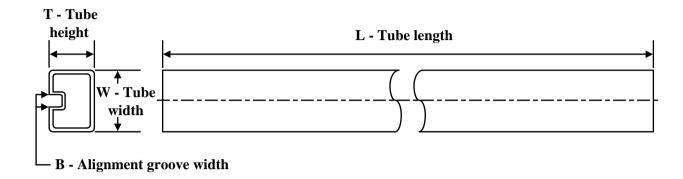
*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ABT2240ADBR	SSOP	DB	20	2000	356.0	356.0	35.0
SN74ABT2240ADWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ABT2240ANSR	SO	NS	20	2000	367.0	367.0	45.0
SN74ABT2240APWR	TSSOP	PW	20	2000	356.0	356.0	35.0

PACKAGE MATERIALS INFORMATION

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TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
5962-9469701Q2A	FK	LCCC	20	1	506.98	12.06	2030	NA
SN74ABT2240ADW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ABT2240AN	N	PDIP	20	20	506	13.97	11230	4.32
SN74ABT2240APW	PW	TSSOP	20	70	530	10.2	3600	3.5
SNJ54ABT2240AFK	FK	LCCC	20	1	506.98	12.06	2030	NA





- 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. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-153.



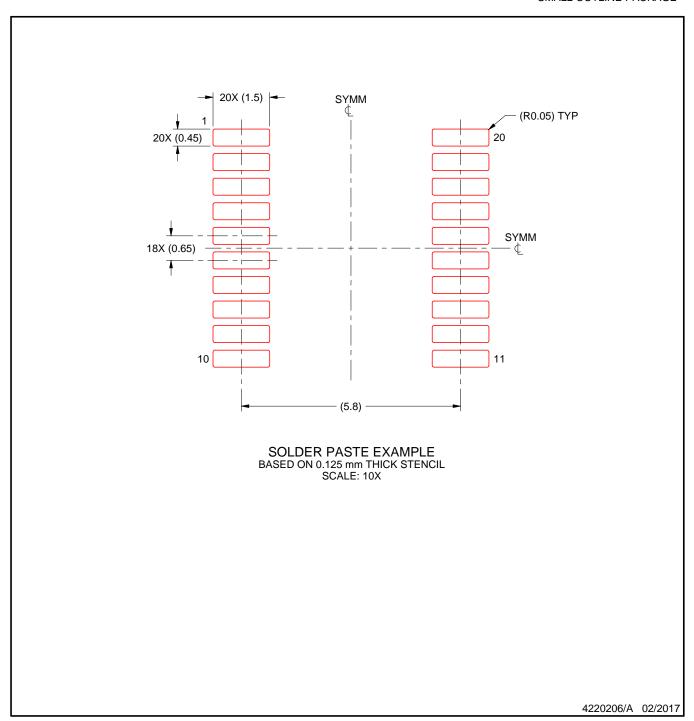


NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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





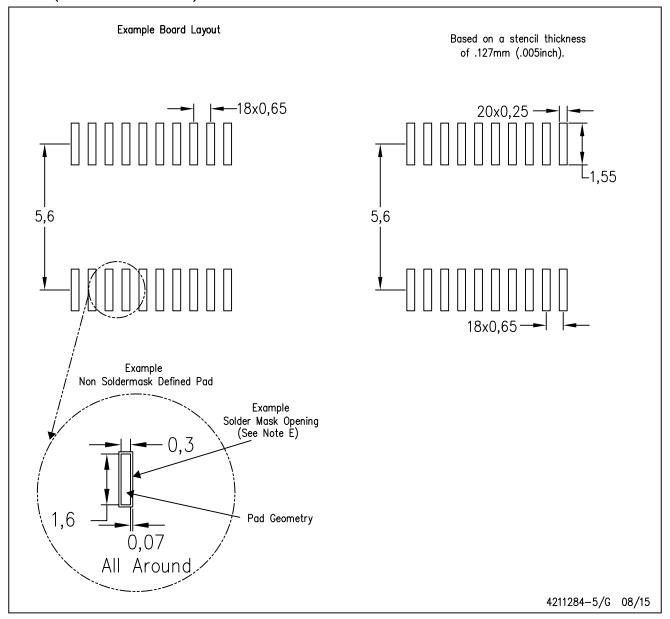
NOTES: (continued)

- 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.



PW (R-PDSO-G20)

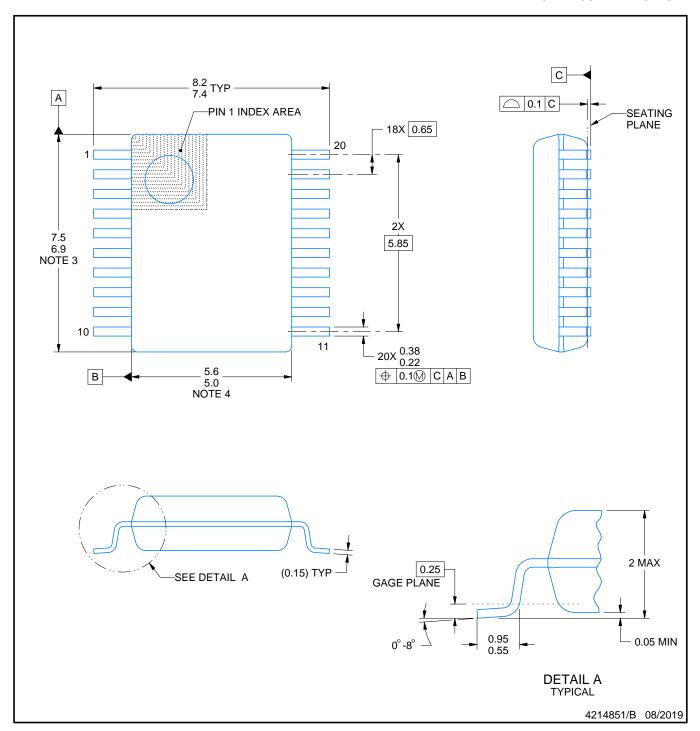
PLASTIC SMALL OUTLINE



- All linear dimensions are in millimeters.
- B. This drawing is subject to change without notice.C. Publication IPC-7351 is recommended for alternate design.
- 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.







- 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. This dimension does not include interlead flash. Interlead flash shall not exceed 0.25 mm per side.
- 5. Reference JEDEC registration MO-150.





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.





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.



14 LEADS SHOWN



- 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.

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN

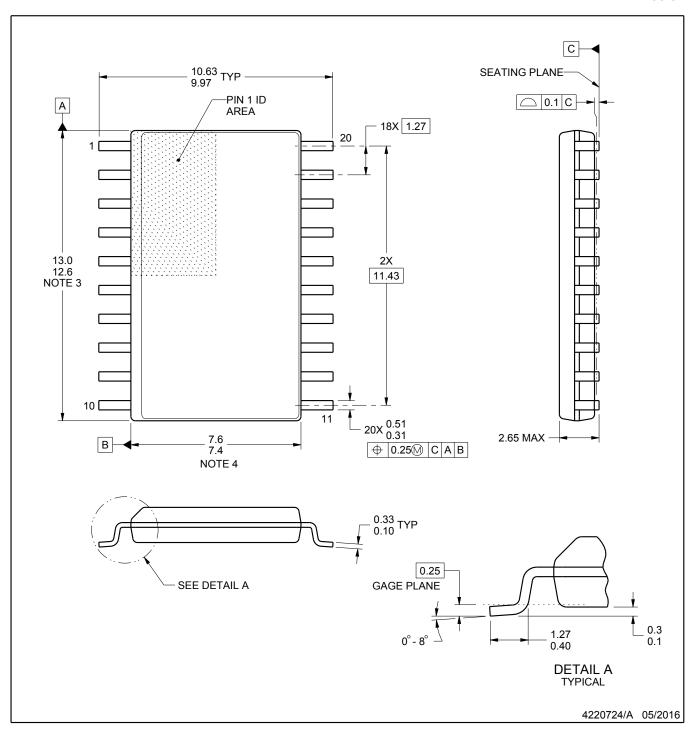


- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.





SOIC



- 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-013.



SOIC



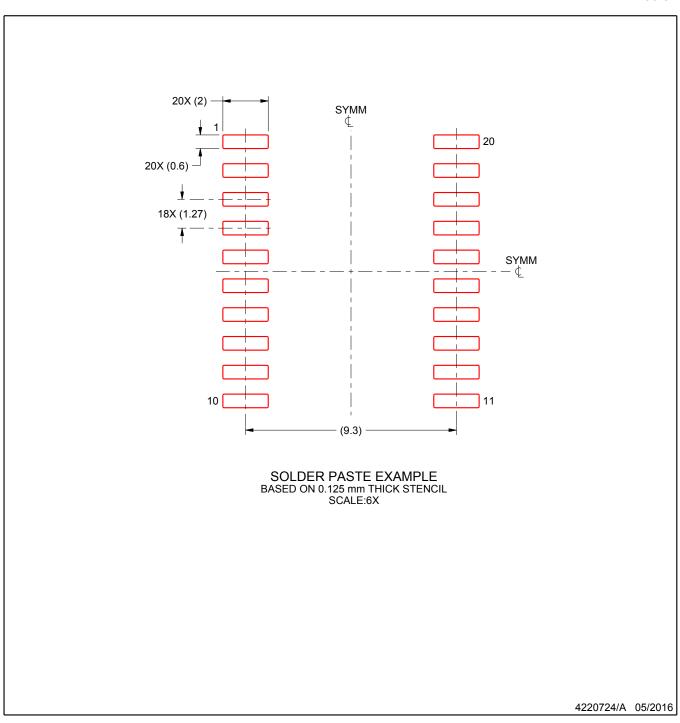
NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

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



SOIC



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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