SN54ACT240, SN74ACT240 **OCTAL BUFFERS/DRIVERS** WITH 3-STATE OUTPUTS SCAS515C - JUNE 1995 - REVISED OCTOBER 2002 4.5-V to 5.5-V V_{CC} Operation Max t_{pd} of 8.5 ns at 5 V Inputs Are TTL Compatible Inputs Accept Voltages to 5.5 V SN54ACT240 ... J OR W PACKAGE SN54ACT240 . . . FK PACKAGE SN74ACT240 . . . DB, DW, N, NS, OR PW PACKAGE (TOP VIEW) (TOP VIEW) 10E 20 Vcc 1A1 [19 20E 2 2 1 20 19 18 2Y4 🛛 3 18[] 1Y1 1A2 1Y1 2Y3 ∐ 5 17 2A4 1A2 4 17 2A4 1A3 6 16 1Y2 2Y3 [5 16 1Y2 2Y2 7 15 2A3 1A3 [6 15 2A3 1A4 8 1Y3 2Y2 **1**7 14 1Y3 9 10 11 12 13 13 2A2 1A4 🛛 8 2Y1 GND 2A1 1Y4 2A2 12 1Y4 2Y1 9

description/ordering information

GND

10

11 🛛 2A1

These octal buffers and line drivers are designed specifically to improve the performance and density of 3-state memory address drivers, clock drivers, and bus-oriented receivers and transmitters.

The 'ACT240 devices are organized as two 4-bit buffers/drivers with separate output-enable (\overline{OE}) inputs. When \overline{OE} is low, the device passes inverted data from the A inputs to the Y outputs. When \overline{OE} is high, the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down, 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.

T _A	PACKAG	Et	ORDERABLE PART NUMBER	TOP-SIDE MARKING						
	PDIP – N	Tube	SN74ACT240N	SN74ACT240N						
		Tube	SN74ACT240DW	ACT040						
–40°C to 85°C	SOIC – DW	Tape and reel	SN74ACT240DWR	ACT240						
	SOP – NS	Tape and reel	SN74ACT240NSR	ACT240						
	SSOP – DB	Tape and reel	SN74ACT240DBR	AD240						
	TSSOP – PW	Tape and reel	SN74ACT240PWR	AD240						
	CDIP – J	Tube	SNJ54ACT240J	SNJ54ACT240J						
–55°C to 125°C	CFP – W	Tube	SNJ54ACT240W	SNJ54ACT240W						
	LCCC – FK	Tube	SNJ54ACT240FK	SNJ54ACT240FK						

ORDERING INFORMATION

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



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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.



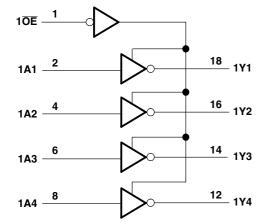
Copyright © 2002, Texas Instruments Incorporated On products compliant to MIL-PRF-38535, all parameters are tested unless otherwise noted. On all other products, production processing does not necessarily include testing of all parameters.

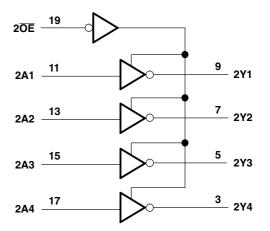
SN54ACT240, SN74ACT240 **OCTAL BUFFERS/DRIVERS** WITH 3-STATE OUTPUTS

SCAS515C - JUNE 1995 - REVISED OCTOBER 2002

FUNCTION TABLE (each buffer)										
INPUTS OUTPUT										
OE	Α	Y								
L	Н	L								
L	L	Н								
Н	Х	Z								

logic diagram (positive logic)





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

Supply voltage range, V _{CC}	
Input voltage range, V _I (see Note 1)	–0.5 V to V _{CC} + 0.5 V
Output voltage range, V _O (see Note 1)	–0.5 V to V _{CC} + 0.5 V
Input clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{CC}$)	±20 mA
Output clamp current, I_{OK} (V _O < 0 or V _O > V _{CC})	±20 mA
Continuous output current, $I_O (V_O = 0 \text{ to } V_{CC})$	±50 mA
Continuous current through V _{CC} or GND	±200 mA
Package thermal impedance, θ_{JA} (see Note 2):	DB package 70°C/W
	DW package 58°C/W
	N package 69°C/W
	NS package 60°C/W
	PW 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. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

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



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recommended operating conditions (see Note 3)

		SN54A	CT240	SN74A	CT240	
		MIN	MAX	MIN	MAX	UNIT
V _{CC}	Supply voltage	4.5	5.5	4.5	5.5	V
V _{IH}	High-level input voltage	2		2		V
V _{IL}	Low-level input voltage		0.8		0.8	V
VI	Input voltage	0	V_{CC}	0	V_{CC}	V
Vo	Output voltage	0	V_{CC}	0	V_{CC}	V
I _{OH}	High-level output current		-24		-24	mA
I _{OL}	Low-level output current		24		24	mA
$\Delta t / \Delta v$	Input transition rise or fall rate		8		8	ns/V
T _A	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)

			Ţ	_A = 25°C	;	SN54A	CT240	SN74A	CT240	UNIT
PARAMETER	TEST CONDITIONS	v _{cc}	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
		4.5 V	4.4	4.49		4.4		4.4		
	I _{OH} = -50 μA	5.5 V	5.4	5.49		5.4		5.4		
V		4.5 V	3.86			3.7		3.76		v
V _{OH}	I _{OH} = -24 mA	5.5 V	4.86			4.7		4.76		V
	$I_{OH} = -50 \text{ mA}^{\dagger}$	5.5 V				3.85				
	$I_{OH} = -75 \text{ mA}^{\dagger}$	5.5 V						3.85		
	1 50	4.5 V		0.001	0.1		0.1		0.1	
	I _{OL} = 50 μA	5.5 V		0.001	0.1		0.1		0.1	
V	L 04 mA	4.5 V			0.36		0.5		0.44	v
V _{OL}	I _{OL} = 24 mA	5.5 V			0.36		0.5		0.44	v
	$I_{OL} = 50 \text{ mA}^{\dagger}$	5.5 V					1.65			
	$I_{OL} = 75 \text{ mA}^{\dagger}$	5.5 V							1.65	
I _{OZ}	$V_{O} = V_{CC}$ or GND	5.5 V			±0.25		±5		±2.5	μA
l _l	$V_{I} = V_{CC}$ or GND	5.5 V			±0.1		±1		±1	μA
I _{CC}	$V_{I} = V_{CC} \text{ or } GND, \qquad I_{O} = 0$	5.5 V			4		80		40	μA
ΔI_{CC}^{\ddagger}	One input at 3.4 V, Other inputs at GND or V _{CC}	5.5 V		0.6			1.6		1.5	mA
Ci	$V_{I} = V_{CC}$ or GND	5 V		2.5						pF
Co	$V_I = V_{CC}$ or GND	5 V		8						pF

[†] Not more than one output should be tested at a time, and the duration of the test should not exceed 2 ms.

[‡] This is the increase in supply current for each input that is at one of the specified TTL voltage levels, rather than 0 V or V_{CC}.



SN54ACT240, SN74ACT240 **OCTAL BUFFERS/DRIVERS** WITH 3-STATE OUTPUTS

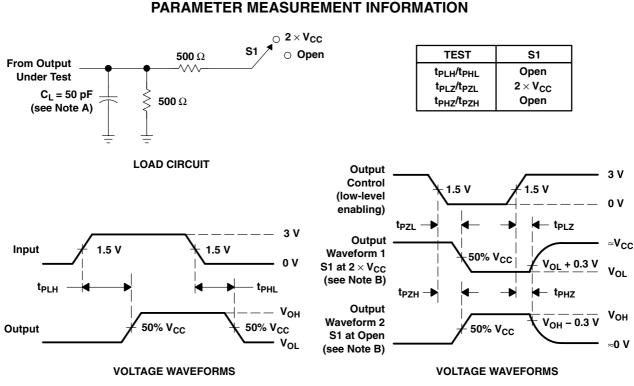
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switching characteristics over recommended operating free-air temperature range, $V_{CC} = 5 \text{ V} \pm 0.5 \text{ V}$ (unless otherwise noted) (see Figure 1)

DADAMETED	FROM	то	т	₄ = 25°C	:	SN54A	CT240	SN74A	CT240	
PARAMETER	(INPUT)	(OUTPUT)	MIN	TYP	MAX	MIN	MAX	MIN	MAX	UNIT
t _{PLH}		v	1.5	6	8.5	1	9.5	1.5	9.5	
t _{PHL}	A	Y	1.5	5.5	7.5	1	9	1.5	8.5	ns
t _{PZH}	<u> </u>	v	1.5	7	8.5	1	10	1	9.5	
t _{PZL}	ŌĒ	Ŷ	2	7	9.5	1	11.5	1.5	10.5	ns
t _{PHZ}	ŌĒ	v	2	8	9.5	1	11	2	10.5	20
t _{PLZ}	UE	ľ	2.5	6.5	10	1	11.5	2	10.5	ns

operating characteristics, $V_{CC} = 5 V$, $T_A = 25^{\circ}C$

	PARAMETER	TEST CO	TYP	UNIT	
C _{pd}	Power dissipation capacitance per buffer/driver	C _L = 50 pF,	f = 1 MHz	45	pF



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 1 MHz, Z_O = 50 Ω , t_r \leq 2.5 ns, t_f \leq 2.5 ns.

D. The outputs are measured one at a time with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms





PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
5962-8775901M2A	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 8775901M2A SNJ54ACT 240FK	Samples
5962-8775901MRA	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8775901MR A SNJ54ACT240J	Samples
5962-8775901MSA	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8775901MS A SNJ54ACT240W	Samples
SN74ACT240DBR	ACTIVE	SSOP	DB	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AD240	Samples
SN74ACT240DW	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT240	Samples
SN74ACT240DWG4	ACTIVE	SOIC	DW	20	25	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT240	Samples
SN74ACT240DWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT240	Samples
SN74ACT240DWRE4	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT240	Samples
SN74ACT240N	ACTIVE	PDIP	N	20	20	RoHS & Green	NIPDAU	N / A for Pkg Type	-40 to 85	SN74ACT240N	Samples
SN74ACT240NSR	ACTIVE	SO	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	ACT240	Samples
SN74ACT240PW	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AD240	Samples
SN74ACT240PWG4	ACTIVE	TSSOP	PW	20	70	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AD240	Samples
SN74ACT240PWR	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU SN	Level-1-260C-UNLIM	-40 to 85	AD240	Samples
SN74ACT240PWRG4	ACTIVE	TSSOP	PW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	-40 to 85	AD240	Samples
SNJ54ACT240FK	ACTIVE	LCCC	FK	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 8775901M2A SNJ54ACT 240FK	Samples
SNJ54ACT240J	ACTIVE	CDIP	J	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8775901MR A	Samples



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Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead finish/ Ball material (6)	MSL Peak Temp (3)	Op Temp (°C)	Device Marking (4/5)	Samples
										SNJ54ACT240J	
SNJ54ACT240W	ACTIVE	CFP	W	20	1	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-8775901MS A SNJ54ACT240W	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.

⁽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 (CI) 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 SN54ACT240, SN74ACT240 :



13-Aug-2021

• Catalog : SN74ACT240

Military : SN54ACT240

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





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
SN74ACT240DBR	SSOP	DB	20	2000	330.0	16.4	8.2	7.5	2.5	12.0	16.0	Q1
SN74ACT240DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74ACT240NSR	SO	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1
SN74ACT240PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.0	1.4	8.0	16.0	Q1
SN74ACT240PWR	TSSOP	PW	20	2000	330.0	16.4	6.95	7.1	1.6	8.0	16.0	Q1
SN74ACT240PWRG4	TSSOP	PW	20	2000	330.0	16.4	6.95	7.0	1.4	8.0	16.0	Q1



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PACKAGE MATERIALS INFORMATION

5-Jan-2022



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74ACT240DBR	SSOP	DB	20	2000	853.0	449.0	35.0
SN74ACT240DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74ACT240NSR	SO	NS	20	2000	367.0	367.0	45.0
SN74ACT240PWR	TSSOP	PW	20	2000	853.0	449.0	35.0
SN74ACT240PWR	TSSOP	PW	20	2000	364.0	364.0	27.0
SN74ACT240PWRG4	TSSOP	PW	20	2000	853.0	449.0	35.0



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TUBE



*All	dimensions	are	nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	Τ (μm)	B (mm)
5962-8775901M2A	FK	LCCC	20	1	506.98	12.06	2030	NA
SN74ACT240DW	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ACT240DWG4	DW	SOIC	20	25	507	12.83	5080	6.6
SN74ACT240N	N	PDIP	20	20	506	13.97	11230	4.32
SN74ACT240PW	PW	TSSOP	20	70	530	10.2	3600	3.5
SN74ACT240PWG4	PW	TSSOP	20	70	530	10.2	3600	3.5
SNJ54ACT240FK	FK	LCCC	20	1	506.98	12.06	2030	NA

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



DB0020A



PACKAGE OUTLINE

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



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



DB0020A

EXAMPLE BOARD LAYOUT

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



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.



DB0020A

EXAMPLE STENCIL DESIGN

SSOP - 2 mm max height

SMALL OUTLINE PACKAGE



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

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.



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.



DW0020A



PACKAGE OUTLINE

SOIC - 2.65 mm max height

SOIC



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-013.



DW0020A

EXAMPLE BOARD LAYOUT

SOIC - 2.65 mm max height

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.



DW0020A

EXAMPLE STENCIL DESIGN

SOIC - 2.65 mm max height

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.



W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



- NOTES: A. All linear dimensions are in inches (millimeters).
 - This drawing is subject to change without notice. В.
 - 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 GDFP2-F20



PW0020A



PACKAGE OUTLINE

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



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



PW0020A

EXAMPLE BOARD LAYOUT

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



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.



PW0020A

EXAMPLE STENCIL DESIGN

TSSOP - 1.2 mm max height

SMALL OUTLINE PACKAGE



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.



LAND PATTERN DATA



NOTES: Α. 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.



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.

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