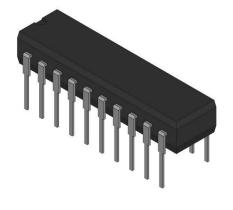


# **SNJ54F240J Datasheet**

www.digi-electronics.com

Μ



DiGi Electronics Part Number	SNJ54F240J-DG
Manufacturer	Texas Instruments
Aanufacturer Product Number	SNJ54F240J
Description	54F240 OCTAL BUFFERS/DRIVERS WIT
Detailed Description	Buffer, Inverting 2 Element 4 Bit per Element 3-Stat e Output 20-CDIP

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# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
SNJ54F240J	Texas Instruments
Series:	Product Status:
54F	Active
Logic Type:	Number of Elements:
Buffer, Inverting	2
Number of Bits per Element:	Input Type:
4	-
Output Type:	Current - Output High, Low:
3-State	12mA, 48mA
Voltage - Supply:	Operating Temperature:
4.5V ~ 5.5V	-55°C ~ 125°C (TA)
Mounting Type:	Package / Case:
Through Hole	20-CDIP (0.300", 7.62mm)
Supplier Device Package:	Base Product Number:
20-CDIP	54F240

# **Environmental & Export classification**

 ECCN:
 HTSUS:

 EAR99
 8542.39.0001

- 3-State Outputs Drive Bus Lines or Buffer Memory Address Registers
- Package Options Include Plastic Small-Outline (SOIC) and Shrink Small-Outline (SSOP) Packages, Ceramic Chip Carriers, and Plastic and Ceramic DIPs

#### 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. Taken together with the 'F241 and 'F244, these devices provide the choice of selected combinations of inverting and noninverting outputs, symmetrical  $\overline{OE}$  (active-low output-enable) inputs, and complementary OE and  $\overline{OE}$  inputs.

The 'F240 is organized as two 4-bit buffers/line drivers with separate output enable ( $\overline{OE}$ ) inputs. When  $\overline{OE}$  is low, the device passes data from the A inputs to the Y outputs. When  $\overline{OE}$  is high, the outputs are in the high-impedance state.

The SN74F240 is available in TI's shrink small-outline package (DB), which provides the same I/O pin count and functionality of standard small-outline packages in less than half the printed-circuit-board area.

The SN54F240 is characterized for operation over the full military temperature range of  $-55^{\circ}$ C to 125°C. The SN74F240 is characterized for operation from 0°C to 70°C.

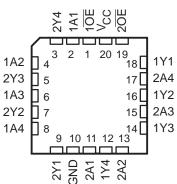
3NJ4F2	40	JFACKAGE	
	•	V, OR N PACKAG	Ε
	(TOP VI	IEW)	
ſ			
1 <u>0</u> [	1	20 VCC	
1A1 [	2	19 ] 2 <del>0E</del>	
2Y4 [	3	18 ] 1Y1	
1A2 [	4	17 ] 2A4	
2Y3 [	5	16 ] 1Y2	
1A3 [	6	15 ] 2A3	
2Y2 [	7	14 🛛 1Y3	
1A4 [	8	13 ] 2A2	
2Y1 [	9	12 ] 1Y4	
GND [	10	11 ] 2A1	
	(TOP V	IEW)	

SN54F240 ... J PACKAGE

SN54F240, SN74F240

OCTAL BUFFERS/DRIVERS WITH 3-STATE OUTPUTS

SDFS061A - D2932, MARCH 1987 - REVISED OCTOBER 1993



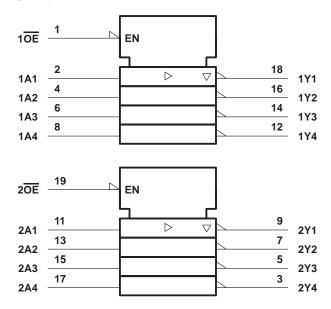
FUNCTION TABLE
(each buffer)

INPU	JTS	OUTPUT
OE	Α	Y
L	Н	L
L	L	н
Н	Х	Z

## SNJ54F240J Texas Instruments 54F240 OCTAL BUFFERS/DRIVERS WIT SN54F240, SN74F240 OCTAL BUFFERS/DRIVERS WITH 3-STATE OUTPUTS

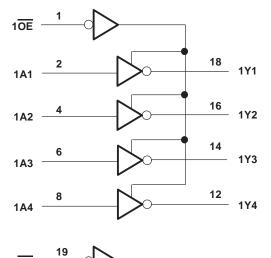
SDFS061A - D2932, MARCH 1987 - REVISED OCTOBER 1993

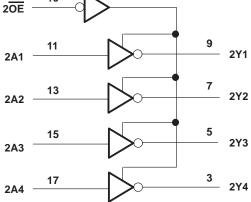
#### logic symbol<sup>†</sup>



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

### logic diagram (positive logic)





#### absolute maximum ratings over operating free-air temperature range (unless otherwise noted)<sup>‡</sup>

Supply voltage range, V <sub>CC</sub> Input voltage range, V <sub>I</sub> (see Note 1)	$\dots$ $-1.2$ V to 7 V
Input current range	
Voltage range applied to any output in the disabled or power-off state	−0.5 V to 5.5 V
Voltage range applied to any output in the high state	$\dots$ -0.5 V to V <sub>CC</sub>
Current into any output in the low state: SN54F240	
SN74F240	128 mA
Operating free-air temperature range: SN54F240	−55°C to 125°C
SN74F240	0°C to 70°C
Storage temperature range	−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.
NOTE 1: The input voltage ratings may be exceeded provided the input current ratings are observed.

NOTE 1: The input voltage ratings may be exceeded provided the input current ratings are observed.



SDFS061A - D2932, MARCH 1987 - REVISED OCTOBER 1993

SN54F240, SN74F240

#### recommended operating conditions

		S	N54F24	)	S	UNIT		
		MIN	NOM	MAX	MIN	NOM	MAX	UNIT
V <sub>CC</sub>	Supply voltage	4.5	5	5.5	4.5	5	5.5	V
VIH	High-level input voltage	2			2			V
VIL	Low-level input voltage			0.8			0.8	V
IIK	Input clamp current			-18			-18	mA
ЮН	High-level output current			- 12			- 15	mA
IOL	Low-level output current			48			64	mA
TA	Operating free-air temperature	-55		125	0		70	°C

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

DADAMETED	TEOT	CONDITIONS	s	N54F24	)	S	UNIT			
PARAMETER	IEST	CONDITIONS	MIN	TYP†	MAX	MIN	TYP†	MAX	UNIT	
VIK	V <sub>CC</sub> = 4.5 V,	lj = -18 mA			-1.2			-1.2	V	
		I <sub>OH</sub> = – 3 mA	2.4	3.3		2.4	3.3			
Mari	$V_{CC} = 4.5 V$	I <sub>OH</sub> = - 12 mA	2	3.2					V	
VOH		I <sub>OH</sub> = – 15 mA				2	3.1		v	
	V <sub>CC</sub> = 4.75 V,	I <sub>OH</sub> = – 3 mA				2.7				
Ver		I <sub>OL</sub> = 48 mA		0.38	0.55				V	
VOL	V <sub>CC</sub> = 4.5 V	I <sub>OL</sub> = 64 mA					0.42	0.55		
IOZH	V <sub>CC</sub> = 5.5 V,	V <sub>O</sub> = 2.7 V			50			50	μΑ	
IOZL	V <sub>CC</sub> = 5.5 V,	V <sub>O</sub> = 0.5 V			-50			-50	μA	
lı	V <sub>CC</sub> = 5.5 V,	$V_{I} = 7 V$			0.1			0.1	mA	
IIН	V <sub>CC</sub> = 5.5 V,	V <sub>I</sub> = 2.7 V			20			20	μΑ	
١	V <sub>CC</sub> = 5.5 V,	V <sub>I</sub> = 0.5 V			- 1			- 1	mA	
los‡	V <sub>CC</sub> = 5.5 V,	$V_{O} = 0$	-100		-225	-100		-225	mA	
		Outputs high		19	29		19	29		
Icc	V <sub>CC</sub> = 5.5 V	Outputs low	Outputs low 50 75		75		50	75	mA	
		Outputs disabled		42	63		42	63		

<sup>†</sup> All typical values are at V<sub>CC</sub> = 5 V, T<sub>A</sub> = 25°C.
 <sup>‡</sup> Not more than one output should be shorted at a time, and the duration of the short circuit should not exceed one second.



#### SNJ54F240J Texas Instruments 54F240 OCTAL BUFFERS/DRIVERS WIT SN54F240, SN74F240 OCTAL BUFFERS/DRIVERS WITH 3-STATE OUTPUTS SDFS061A - D2932, MARCH 1987 - REVISED OCTOBER 1993

#### switching characteristics (see Note 2)

PARAMETER	FROM (INPUT)	ТО (OUTPUT)	CI RI	V <sub>CC</sub> = 5 V, C <sub>L</sub> = 50 pF, R <sub>L</sub> = 500 Ω, T <sub>A</sub> = 25°C			$V_{CC}$ = 4.5 V to 5.5 V, $C_{L}$ = 50 pF, $R_{L}$ = 500 Ω, $T_{A}$ = MIN to MAX <sup>†</sup>				
				′ <b>F240</b>		SN54	F240	SN74	F240		
			MIN	TYP	MAX	MIN	MAX	MIN	MAX		
<sup>t</sup> PLH	Any A	v	2.2	4.7	7	2.2	9	2.2	8	ns	
<sup>t</sup> PHL	Ally A	Ŷ	1.2	3.1	4.7	1.2	6	1.2	5.7	115	
<sup>t</sup> PZH	ŌĒ	Y	1.2	3.1	5.3	1.2	6.7	1.2	6.1	50	
<sup>t</sup> PZL	ÛE	Ŷ	3.2	6.5	9	3.2	10.5	3.2	10	ns	
<sup>t</sup> PHZ	ŌĒ	v	1.2	3.6	5.3	1.2	6.5	1.2	6.3	20	
<sup>t</sup> PLZ	UL	1	1.2	5.6	8	1.2	12.5	1.2	9.5	ns	

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

NOTE 2: Load circuits and waveforms are shown in Section 1.





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## 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
5962-9758501Q2A	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9758501Q2A SNJ54F 240FK	Samples
5962-9758501QRA	ACTIVE	CDIP	J	20	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9758501QR A SNJ54F240J	Samples
5962-9758501QSA	ACTIVE	CFP	W	20	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9758501QS A SNJ54F240W	Samples
JM38510/33201B2A	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	JM38510/ 33201B2A	Samples
JM38510/33201BRA	ACTIVE	CDIP	J	20	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	JM38510/ 33201BRA	Samples
JM38510/33201BSA	ACTIVE	CFP	W	20	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	JM38510/ 33201BSA	Samples
M38510/33201B2A	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	JM38510/ 33201B2A	Samples
M38510/33201BRA	ACTIVE	CDIP	J	20	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	JM38510/ 33201BRA	Samples
M38510/33201BSA	ACTIVE	CFP	W	20	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	JM38510/ 33201BSA	Samples
SN54F240J	ACTIVE	CDIP	J	20	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	SN54F240J	Samples
SN74F240DW	OBSOLETE	SOIC	DW	20		TBD	Call TI	Call TI	0 to 70	F240	
SN74F240DWR	ACTIVE	SOIC	DW	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	F240	Samples
SN74F240N	ACTIVE	PDIP	N	20	20	RoHS & Non-Green	NIPDAU	N / A for Pkg Type	0 to 70	SN74F240N	Samples
SN74F240NSR	ACTIVE	SOP	NS	20	2000	RoHS & Green	NIPDAU	Level-1-260C-UNLIM	0 to 70	74F240	Samples
SNJ54F240FK	ACTIVE	LCCC	FK	20	55	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962- 9758501Q2A SNJ54F 240FK	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
SNJ54F240J	ACTIVE	CDIP	J	20	20	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9758501QR A SNJ54F240J	Samples
SNJ54F240W	ACTIVE	CFP	W	20	25	Non-RoHS & Green	SNPB	N / A for Pkg Type	-55 to 125	5962-9758501QS A SNJ54F240W	Samples

<sup>(1)</sup> 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.

<sup>(2)</sup> 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.

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

<sup>(4)</sup> There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.

<sup>(5)</sup> 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.

<sup>(6)</sup> 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 SN54F240, SN74F240 :

Catalog : SN74F240

Military : SN54F240

NOTE: Qualified Version Definitions:

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

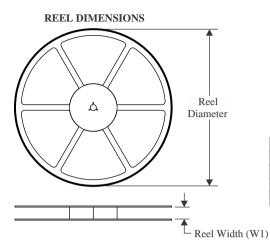


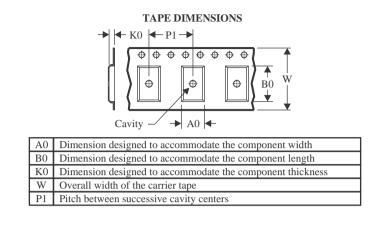
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## PACKAGE MATERIALS INFORMATION

7-Dec-2024

## TAPE AND REEL INFORMATION





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



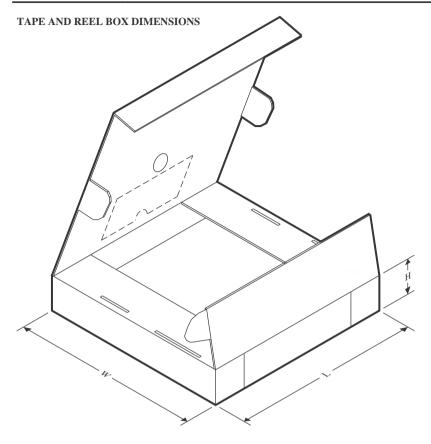
*All dimensions are nominal												
Device	-	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74F240DWR	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1
SN74F240NSR	SOP	NS	20	2000	330.0	24.4	8.4	13.0	2.5	12.0	24.0	Q1



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# PACKAGE MATERIALS INFORMATION

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\*All dimensions are nominal

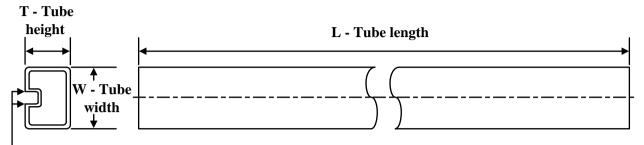
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74F240DWR	SOIC	DW	20	2000	367.0	367.0	45.0
SN74F240NSR	SOP	NS	20	2000	367.0	367.0	45.0



NIS

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## TUBE



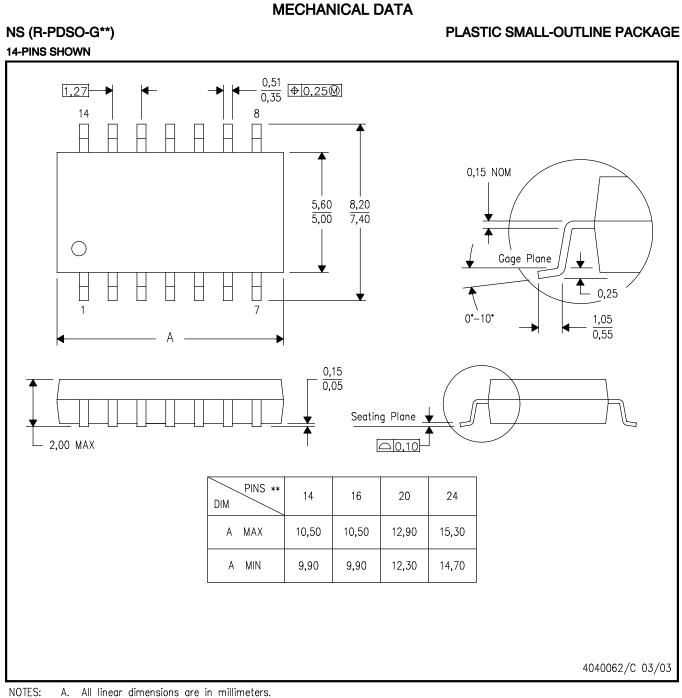
## - B - Alignment groove width

*All dimensions are nomina	I
----------------------------	---

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	Τ (μm)	B (mm)
5962-9758501Q2A	FK	LCCC	20	55	506.98	12.06	2030	NA
5962-9758501QSA	W	CFP	20	25	506.98	26.16	6220	NA
JM38510/33201B2A	FK	LCCC	20	55	506.98	12.06	2030	NA
JM38510/33201BSA	W	CFP	20	25	506.98	26.16	6220	NA
M38510/33201B2A	FK	LCCC	20	55	506.98	12.06	2030	NA
M38510/33201BSA	W	CFP	20	25	506.98	26.16	6220	NA
SN74F240N	N	PDIP	20	20	506	13.97	11230	4.32
SNJ54F240FK	FK	LCCC	20	55	506.98	12.06	2030	NA
SNJ54F240W	W	CFP	20	25	506.98	26.16	6220	NA

7-Dec-2024

PACKAGE MATERIALS INFORMATION

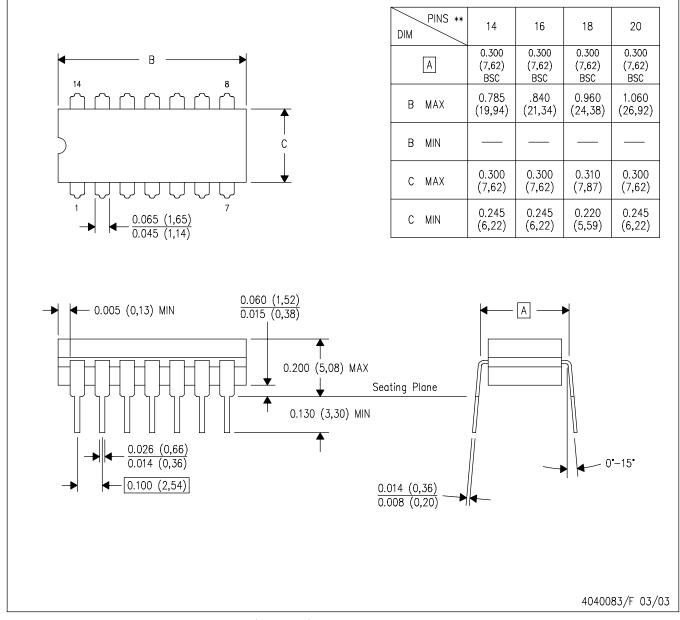


- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion, not to exceed 0,15.



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.

# **GENERIC PACKAGE VIEW**

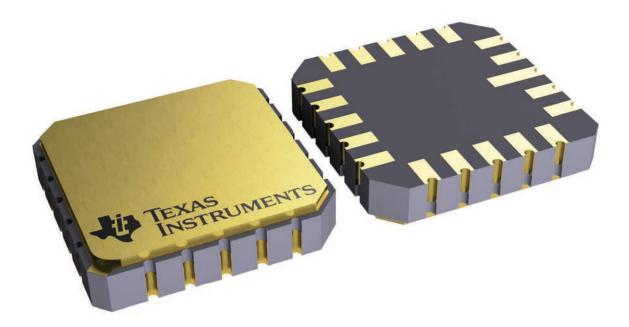
# FK 20

## 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.





4229370\/A\

#### N (R-PDIP-T\*\*) PLASTIC DUAL-IN-LINE PACKAGE 16 PINS SHOWN PINS \*\* 14 16 18 20 DIM 9 16 0.775 0.775 0.920 1.060 A MAX (19, 69)(19, 69)(23,37) (26,92) 0.745 0.745 0.850 0.940 0.260 (6,60) A MIN (21, 59)(18, 92)(18, 92)(23, 88)0.240 (6,10) MS-001 ★ $\triangle$ AA BΒ AC AD 5 VARIATION 8 0.070 (1,78) 0.045 (1,14) ≁ 0.045 (1,14) 0.030 (0,76) 0.325 (8,26) 0.020 (0,51) MIN 0.300 (7,62) 0.015 (0,38) 0.200 (5,08) MAX Gauge Plane Seating Plane 0.010 (0,25) NOM 0.125 (3,18) MIN 1 0.100 (2,54) 🕨 0.430 (10,92) MAX 🖊 $\frac{0.021 \ (0,53)}{0.015 \ (0,38)}$ ▶ ◄ ⊕ 0.010 (0,25) M 14/18 Pin Only 20 Pin vendor option $\triangle$ 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).
- $\triangle$  The 20 pin end lead shoulder width is a vendor option, either half or full width.

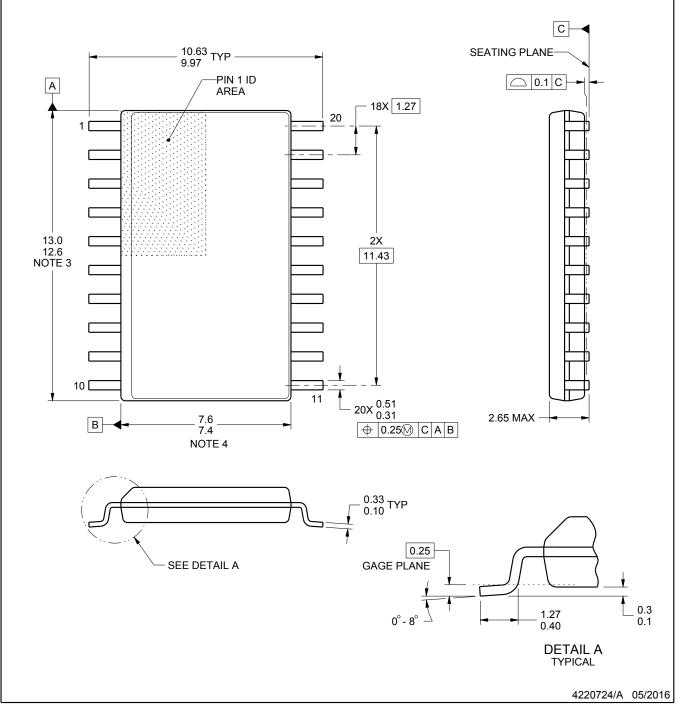


# **DW0020A**

# **PACKAGE OUTLINE**

## SOIC - 2.65 mm max height

SOIC



NOTES:

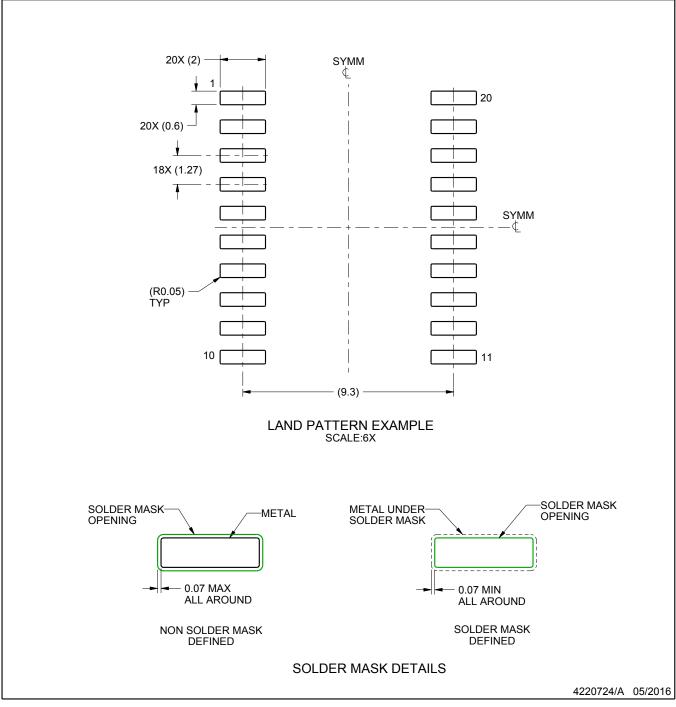
- 1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M. 2. This drawing is subject to change without notice. 3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate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



# **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.



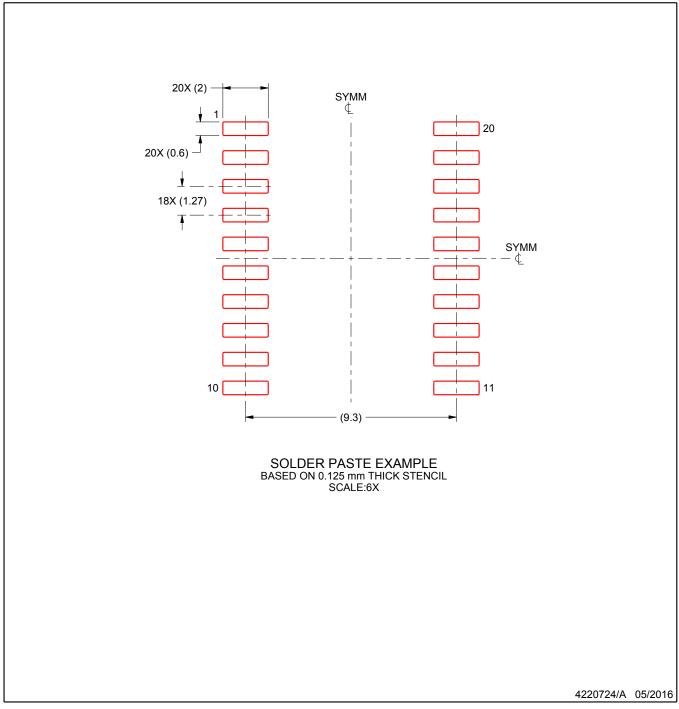
# DW0020A

# **EXAMPLE STENCIL DESIGN**

# DW0020A

## SOIC - 2.65 mm max height

SOIC



NOTES: (continued)

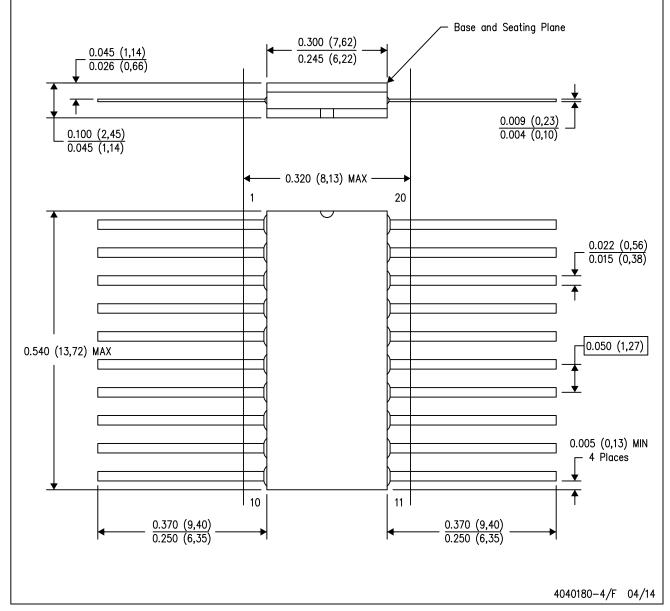
- 8. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.
- 9. Board assembly site may have different recommendations for stencil design.



## **MECHANICAL DATA**

W (R-GDFP-F20)

CERAMIC DUAL FLATPACK



- 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 ceramic lid using glass frit.
  - D. Index point is provided on cap for terminal identification only.
  - E. Falls within Mil-Std 1835 GDFP2-F20



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