

具有三态输出的 CDx4HC573 八路透明 D 类锁存器

1 特性

- 2V 至 6V V_{CC} 运行
- 宽工作温度范围：-55°C 至 125°C
- 三态输出可直接驱动总线
- 平衡的传播延迟及转换时间
- 总线驱动器输出可驱动多达 15 个 LS-TTL 负载
- 与 LS-TTL 逻辑 IC 相比，可显著降低功耗

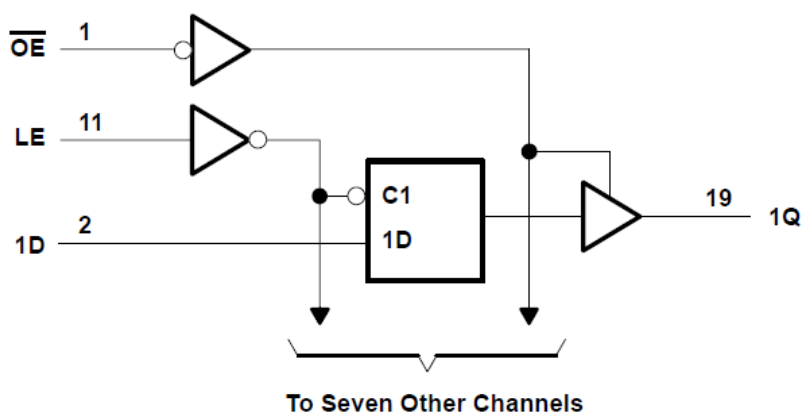
2 说明

HC573 器件为八路透明 D 类锁存器，可在 2V 至 6V V_{CC} 下运行。

器件信息

器件型号	封装 ⁽¹⁾	封装尺寸 (标称值)
SN74HC574DW	SOIC (20)	12.8mm × 7.50mm
SN74HC574N	PDIP (20)	25.40mm × 6.35mm
SN54HC574J	CDIP (20)	26.92mm × 6.92mm

(1) 如需了解所有可用封装，请参阅数据表末尾的可订购产品附录。



功能方框图



内容

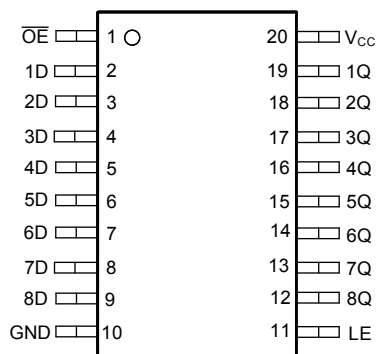
1 特性	1	7.1 Overview.....	8
2 说明	1	7.2 Functional Block Diagram.....	8
3 Revision History	2	7.3 Device Functional Modes.....	8
4 Pin Configuration and Functions	3	8 Power Supply Recommendations	9
5 Specifications	4	9 Layout	9
5.1 Absolute Maximum Ratings.....	4	9.1 Layout Guidelines.....	9
5.2 Recommended Operating Conditions ⁽¹⁾	4	10 Device and Documentation Support	10
5.3 Thermal Information.....	4	10.1 接收文档更新通知.....	10
5.4 Electrical Characteristics.....	5	10.2 支持资源.....	10
5.5 Timing Requirements.....	5	10.3 Trademarks.....	10
5.6 Switching Characteristics.....	6	10.4 Electrostatic Discharge Caution.....	10
5.7 Operating Characteristics.....	6	10.5 术语表.....	10
6 Parameter Measurement Information	7	11 Mechanical, Packaging, and Orderable Information	10
7 Detailed Description	8		

3 Revision History

注：以前版本的页码可能与当前版本的页码不同

Changes from Revision B (January 2022) to Revision C (May 2022)	Page
• Junction-to-ambient thermal resistance values increased. DW was 58 is now 109.1, N was 69 is now 84.6....	4
Changes from Revision A (April 2003) to Revision B (January 2022)	Page
• 更新了整个文档中的编号、格式、表格、图和交叉参考，以反映现代数据表标准.....	1

4 Pin Configuration and Functions



**J, N, or DW package
20-Pin CDIP, PDIP, SOIC
Top View**

5 Specifications

5.1 Absolute Maximum Ratings

over operating free-air temperature range (unless otherwise noted)⁽¹⁾

			MIN	MAX	UNIT
V_{CC}	Supply voltage range		- 0.5	7	V
I_{IK}	Input clamp current ⁽²⁾	$V_I < 0$ or $V_I > V_{CC}$		± 20	mA
I_{OK}	Output clamp current ⁽²⁾	$V_O < 0$ or $V_O > V_{CC}$		± 20	mA
I_O	Continuous output drain current per output	$V_O = 0$ to V_{CC}		± 35	mA
I_O	Continuous output source or sink current per output	$V_O = 0$ to V_{CC}		± 25	mA
	Continuous current through V_{CC} or GND			± 50	mA
T_J	Storage temperature			150	°C
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 input and output voltage ratings may be exceeded if the input and output current ratings are observed.

5.2 Recommended Operating Conditions⁽¹⁾

			$T_A = 25^\circ\text{C}$		$T_A = -55^\circ\text{C to } 125^\circ\text{C}$		$T_A = -40^\circ\text{C to } 85^\circ\text{C}$		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	
V_{CC}	Supply voltage		2	6	2	6	2	6	V
V_{IH}	High-level input voltage	$V_{CC} = 2\text{ V}$	1.5		1.5		1.5		V
		$V_{CC} = 4.5\text{ V}$	3.15		3.15		3.15		
		$V_{CC} = 6\text{ V}$	4.2		4.2		4.2		
V_{IL}	Low-level input voltage	$V_{CC} = 2\text{ V}$		0.5		0.5		0.5	V
		$V_{CC} = 4.5\text{ V}$		1.35		1.35		1.35	
		$V_{CC} = 6\text{ V}$		1.8		1.8		1.8	
V_I	Input voltage		0	V_{CC}	0	V_{CC}	0	V_{CC}	V
V_O	Output voltage		0	V_{CC}	0	V_{CC}	0	V_{CC}	V
t_t	Input transition (rise and fall) time	$V_{CC} = 2\text{ V}$		1000		1000		1000	ns
		$V_{CC} = 4.5\text{ V}$		500		500		500	
		$V_{CC} = 6\text{ V}$		400		400		400	

- (1) 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](#).

5.3 Thermal Information

THERMAL METRIC		DW (SOIC)	N (PDIP)	UNIT
		20 PINS	20 PINS	
$R_{\theta JA}$	Junction-to-ambient thermal resistance ⁽¹⁾	109.1	84.6	°C/W
$R_{\theta JC(top)}$	Junction-to-case (top) thermal resistance	76	72.5	°C/W
$R_{\theta JB}$	Junction-to-board thermal resistance	77.6	65.3	°C/W
Ψ_{JT}	Junction-to-top characterization parameter	51.5	55.3	°C/W
Ψ_{JB}	Junction-to-board characterization parameter	77.1	65.2	°C/W
$R_{\theta JC(bot)}$	Junction-to-case (bottom) thermal resistance	N/A	N/A	°C/W

- (1) For more information about traditional and new thermal metrics, see the [Semiconductor and IC package thermal metrics](#) application report.

5.4 Electrical Characteristics

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

PARAMETER	TEST CONDITIONS		V _{CC}	T _A = 25°C		T _A = -55°C to 125°C		T _A = -40°C to 85°C		UNIT
				MIN	MAX	MIN	MAX	MIN	MAX	
V _{OH}	V _I = V _{IH} or V _{IL}	I _{OH} = -20 μA	2 V	1.9		1.9		1.9		V
			4.5 V	4.4		4.4		4.4		
			6 V	5.9		5.9		5.9		
		I _{OH} = -6 mA	4.5 V	3.98		3.7		3.84		
		I _{OH} = -7.8 mA	6 V	5.48		5.2		5.34		
V _{OL}	V _I = V _{IH} or V _{IL}	I _{OL} = 20 μA	2 V		0.1		0.1		0.1	V
			4.5 V		0.1		0.1		0.1	
			6 V		0.1		0.1		0.1	
		I _{OL} = 6 mA	4.5 V		0.26		0.4		0.33	
		I _{OL} = 7.8 mA	6 V		0.26		0.4		0.33	
I _I	V _I = V _{CC} or 0		6 V		±0.1		±1		±1	μA
I _{OZ}	V _O = V _{CC} or 0		6 V		±0.5		±10		±5	μA
I _{CC}	V _I = V _{CC} or 0,	I _O = 0	6 V		8		160		80	μA
C _i					10		10		10	pF
C _o					20		20		20	pF

5.5 Timing Requirements

over recommended operating free-air temperature range (unless otherwise noted) (see 图 6-1)

		V _{CC}	T _A = 25°C		T _A = -55°C to 125°C		T _A = -40°C to 85°C		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	
t _w	Pulse duration, LE high	2 V	80		120		100		ns
		4.5 V	16		24		20		
		6 V	14		20		17		
t _{su}	Setup time, data before LE ↓	2 V	50		75		65		ns
		4.5 V	10		15		13		
		6 V	9		13		11		
t _h	Hold time, data after LE ↓	2 V	40		60		50		ns
		4.5 V	8		12		10		
		6 V	7		10		9		

5.6 Switching Characteristics

over recommended operating free-air temperature range (unless otherwise noted) (see 图 6-1)

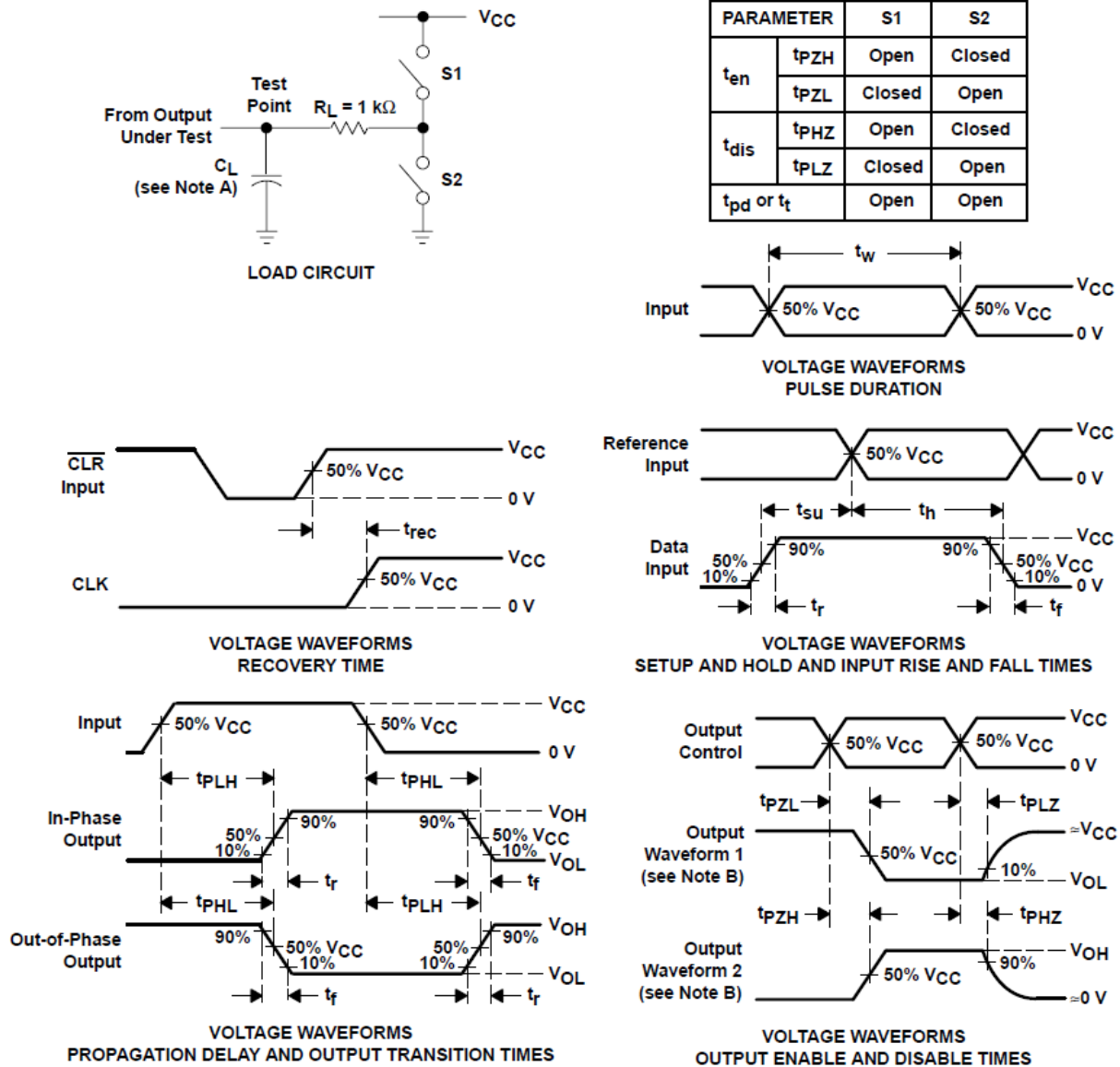
PARAMETER	FROM (INPUT)	TO (OUTPUT)	LOAD CAPACITANCE	V _{CC}	T _A = 25°C		T _A = -55°C to 125°C		T _A = -40°C to 85°C		UNIT
					MIN	MAX	MIN	MAX	MIN	MAX	
t _{pd}	D	Q	C _L = 50 pF	2 V		175		265		220	ns
				4.5 V		35		53		44	
				6 V		30		45		37	
	LE	Q	C _L = 50 pF	2 V		175		265		220	
				4.5 V		35		53		44	
				6 V		30		45		37	
t _{en}	OE	Q	C _L = 50 pF	2 V		150		225		190	ns
				4.5 V		30		45		38	
				6 V		26		38		33	
t _{dis}	OE	Q	C _L = 50 pF	2 V		150		225		190	ns
				4.5 V		30		45		38	
				6 V		26		38		33	
t _t		Q	C _L = 50 pF	2 V		60		90		75	ns
				4.5 V		12		18		15	
				6 V		10		15		13	

5.7 Operating Characteristics

V_{CC} = 5 V, T_A = 25°C

PARAMETER		TYP	UNIT
C _{pd}	Power dissipation capacitance	51	pF

6 Parameter Measurement Information



- C_L includes probe and test-fixture 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
- Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: $PRR \leq 1\text{ MHz}$, $Z_O = 50\ \Omega$, $t_r = 6\text{ ns}$, $t_f = 6\text{ ns}$
- For clock inputs, f_{max} is measured with the input duty cycle at 50%
- The outputs are measured one at a time with one input transition per measurement
- t_{PLZ} and t_{PHZ} are the same as t_{dis}
- t_{PZL} and t_{PZH} are the same as t_{en}
- t_{PLH} and t_{PHL} are the same as t_{pd}

图 6-1. Load Circuit and Voltage Waveforms

7 Detailed Description

7.1 Overview

The ' HC573 devices are octal transparent D-type latches designed for 2-V to 6-V V_{CC} operation.

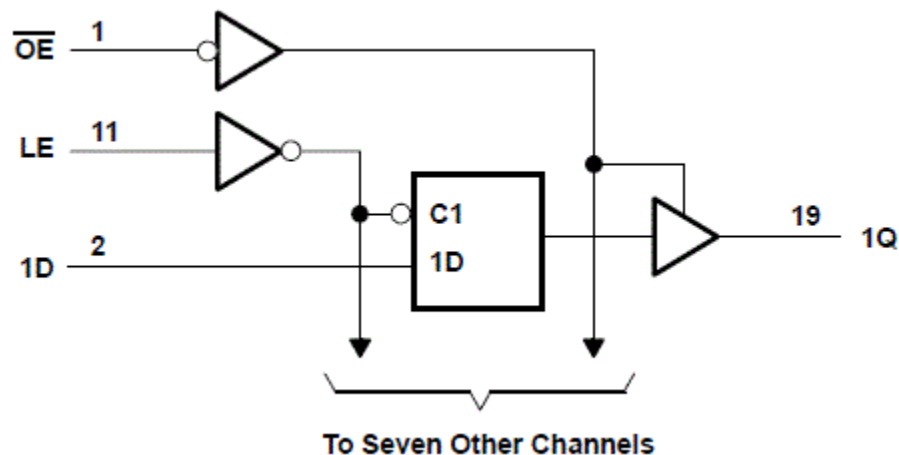
When the latch-enable (LE) input is high, the Q outputs follow the data (D) inputs. When LE is low, the Q outputs are latched at the logic levels of the D inputs.

A buffered output-enable ($\overline{OE}$) input can be used to place the eight outputs in either a normal logic state (high or low) or the high-impedance state. In the high-impedance state, the outputs neither load nor drive the bus lines significantly. The high-impedance state and increased drive provide the capability to drive bus lines without interface or pullup components.

$\overline{\text{OE}}$ does not affect the internal operations of the latches. Old data can be retained or new data can be entered while the outputs are in the high-impedance state.

To ensure the high-impedance state during power up or power down, $\overline{\text{OE}}$ 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.

7.2 Functional Block Diagram



7.3 Device Functional Modes

表 7-1. Function Table
(each latch)

INPUTS			OUTPUTQ
OE	LE	D	
L	H	H	H
L	H	L	L
L	L	X	Q ₀
H	X	X	Z

8 Power Supply Recommendations

The power supply can be any voltage between the minimum and maximum supply voltage rating located in the *Recommended Operating Conditions*. Each V_{CC} terminal should have a good bypass capacitor to prevent power disturbance. A 0.1- μ F capacitor is recommended for this device. It is acceptable to parallel multiple bypass caps to reject different frequencies of noise. The 0.1- μ F and 1- μ F capacitors are commonly used in parallel. The bypass capacitor should be installed as close to the power terminal as possible for best results.

9 Layout

9.1 Layout Guidelines

When using multiple-input and multiple-channel logic devices inputs must not ever be left floating. In many cases, functions or parts of functions of digital logic devices are unused; for example, when only two inputs of a triple-input AND gate are used or only 3 of the 4 buffer gates are used. Such unused input pins must not be left unconnected because the undefined voltages at the outside connections result in undefined operational states. All unused inputs of digital logic devices must be connected to a logic high or logic low voltage, as defined by the input voltage specifications, to prevent them from floating. The logic level that must be applied to any particular unused input depends on the function of the device. Generally, the inputs are tied to GND or V_{CC} , whichever makes more sense for the logic function or is more convenient.

10 Device and Documentation Support

TI offers an extensive line of development tools. Tools and software to evaluate the performance of the device, generate code, and develop solutions are listed below.

10.1 接收文档更新通知

要接收文档更新通知，请导航至 ti.com 上的器件产品文件夹。点击 [订阅更新](#) 进行注册，即可每周接收产品信息更改摘要。有关更改的详细信息，请查看任何已修订文档中包含的修订历史记录。

10.2 支持资源

TI E2E™ 支持论坛是工程师的重要参考资料，可直接从专家获得快速、经过验证的解答和设计帮助。搜索现有解答或提出自己的问题可获得所需的快速设计帮助。

链接的内容由各个贡献者“按原样”提供。这些内容并不构成 TI 技术规范，并且不一定反映 TI 的观点；请参阅 TI 的《使用条款》。

10.3 Trademarks

TI E2E™ is a trademark of Texas Instruments.

所有商标均为其各自所有者的财产。

10.4 Electrostatic Discharge Caution



This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

ESD damage can range from subtle performance degradation to complete device failure. Precision integrated circuits may be more susceptible to damage because very small parametric changes could cause the device not to meet its published specifications.

10.5 术语表

[TI 术语表](#) 本术语表列出并解释了术语、首字母缩略词和定义。

11 Mechanical, Packaging, and Orderable Information

The following pages include mechanical, packaging, and orderable information. This information is the most current data available for the designated devices. This data is subject to change without notice and revision of this document. For browser-based versions of this data sheet, refer to the left-hand navigation.

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)
CD54HC573F	Active	Production	CDIP (J) 20	20 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	CD54HC573F
CD54HC573F.A	Active	Production	CDIP (J) 20	20 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	CD54HC573F
CD54HC573F3A	Active	Production	CDIP (J) 20	20 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8512801RA CD54HC573F3A
CD54HC573F3A.A	Active	Production	CDIP (J) 20	20 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	8512801RA CD54HC573F3A
CD74HC573E	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	-55 to 125	CD74HC573E
CD74HC573E.A	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	-55 to 125	CD74HC573E
CD74HC573EE4	Active	Production	PDIP (N) 20	20 TUBE	Yes	NIPDAU	N/A for Pkg Type	-55 to 125	CD74HC573E
CD74HC573M	Obsolete	Production	SOIC (DW) 20	-	-	Call TI	Call TI	-55 to 125	HC573M
CD74HC573M96	Active	Production	SOIC (DW) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC573M
CD74HC573M96.A	Active	Production	SOIC (DW) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC573M
CD74HC573M96G4	Active	Production	SOIC (DW) 20	2000 LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-55 to 125	HC573M

⁽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.

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.

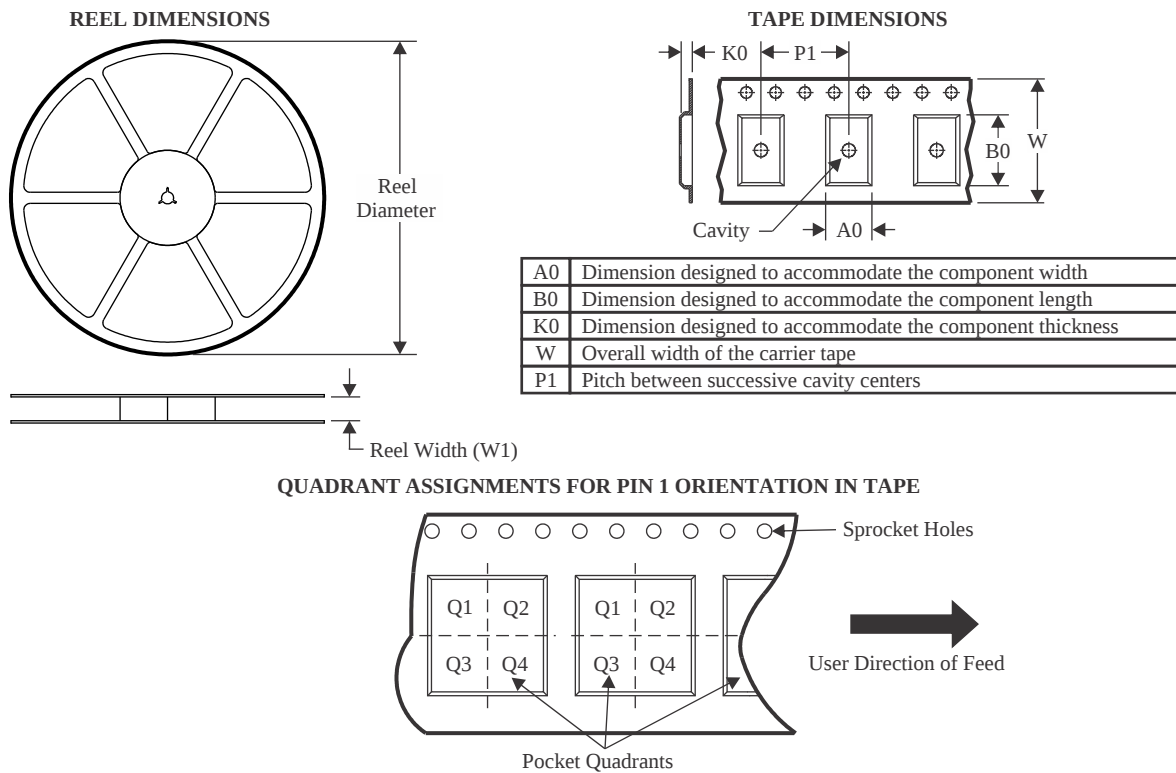
OTHER QUALIFIED VERSIONS OF CD54HC573, CD74HC573 :

- Catalog : [CD74HC573](#)
- Military : [CD54HC573](#)

NOTE: Qualified Version Definitions:

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

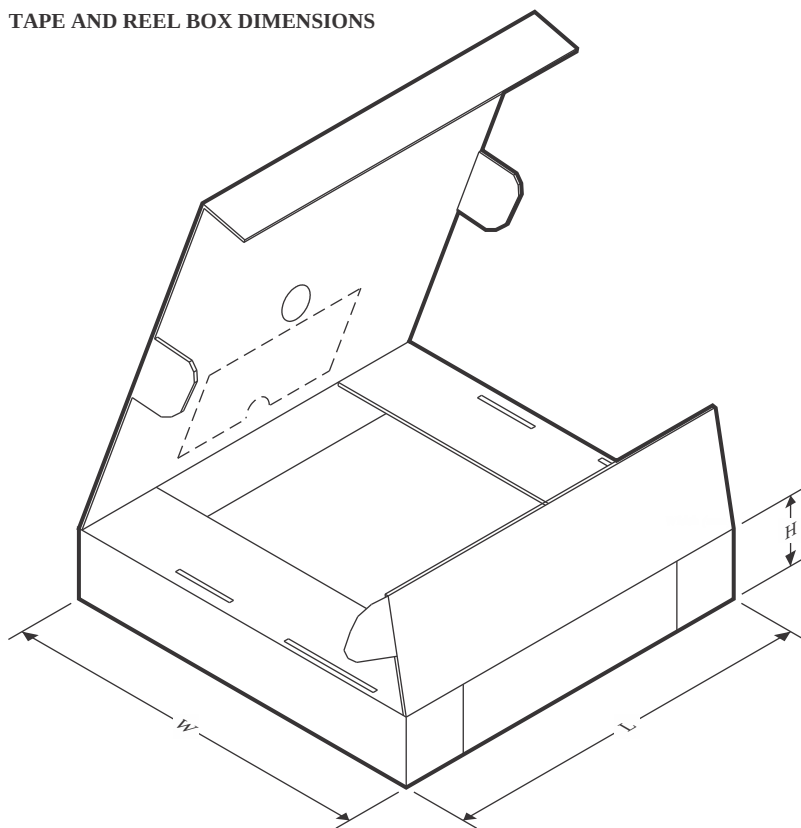
TAPE AND REEL INFORMATION



*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
CD74HC573M96	SOIC	DW	20	2000	330.0	24.4	10.8	13.3	2.7	12.0	24.0	Q1

TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
CD74HC573M96	SOIC	DW	20	2000	356.0	356.0	45.0

TUBE

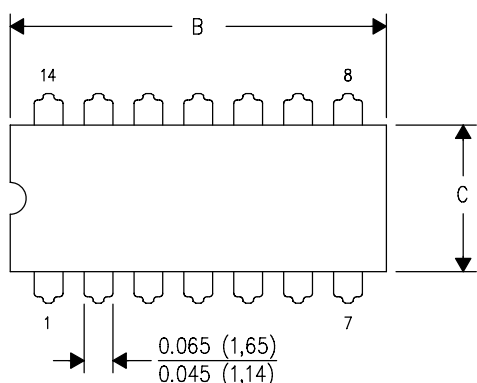

*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (μm)	B (mm)
CD74HC573E	N	PDIP	20	20	506	13.97	11230	4.32
CD74HC573E.A	N	PDIP	20	20	506	13.97	11230	4.32
CD74HC573EE4	N	PDIP	20	20	506	13.97	11230	4.32

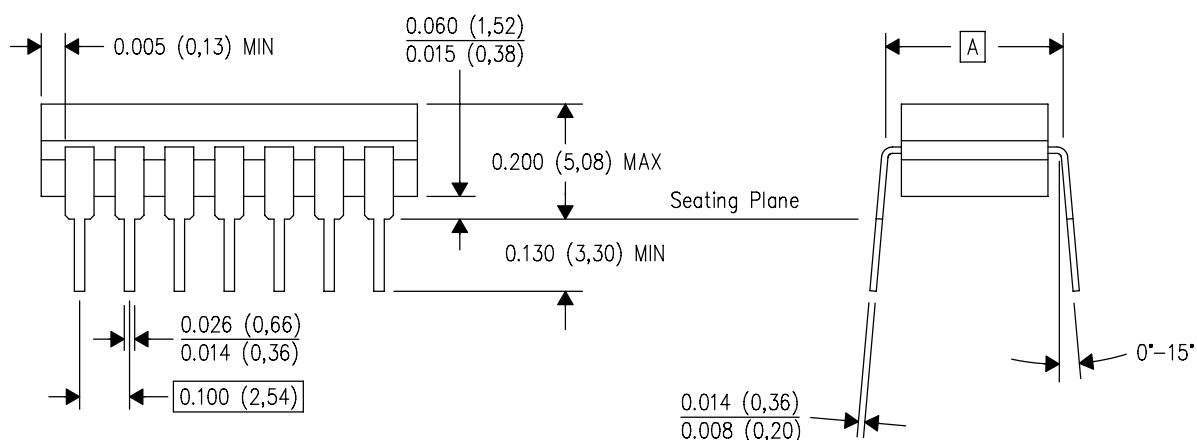
J (R-GDIP-T**)

14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



PINS ** DIM	14	16	18	20
A	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC	0.300 (7,62) BSC
B MAX	0.785 (19,94)	.840 (21,34)	0.960 (24,38)	1.060 (26,92)
B MIN	—	—	—	—
C MAX	0.300 (7,62)	0.300 (7,62)	0.310 (7,87)	0.300 (7,62)
C MIN	0.245 (6,22)	0.245 (6,22)	0.220 (5,59)	0.245 (6,22)



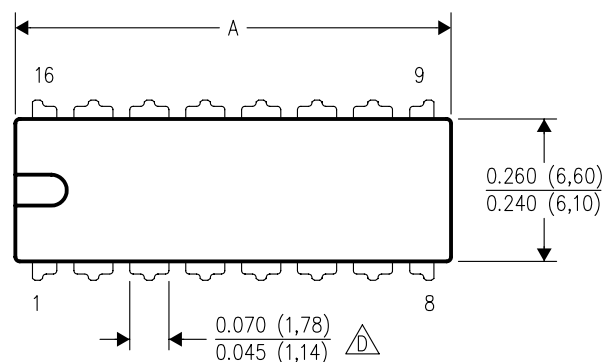
4040083/F 03/03

- 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.

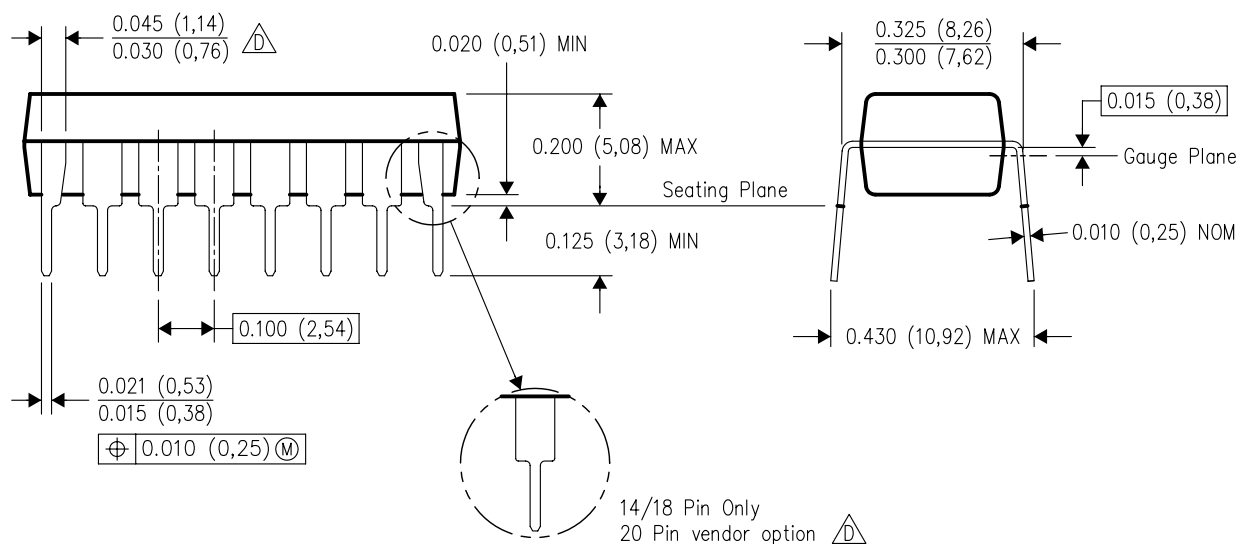
N (R-PDIP-T**)

16 PINS SHOWN

PLASTIC DUAL-IN-LINE PACKAGE

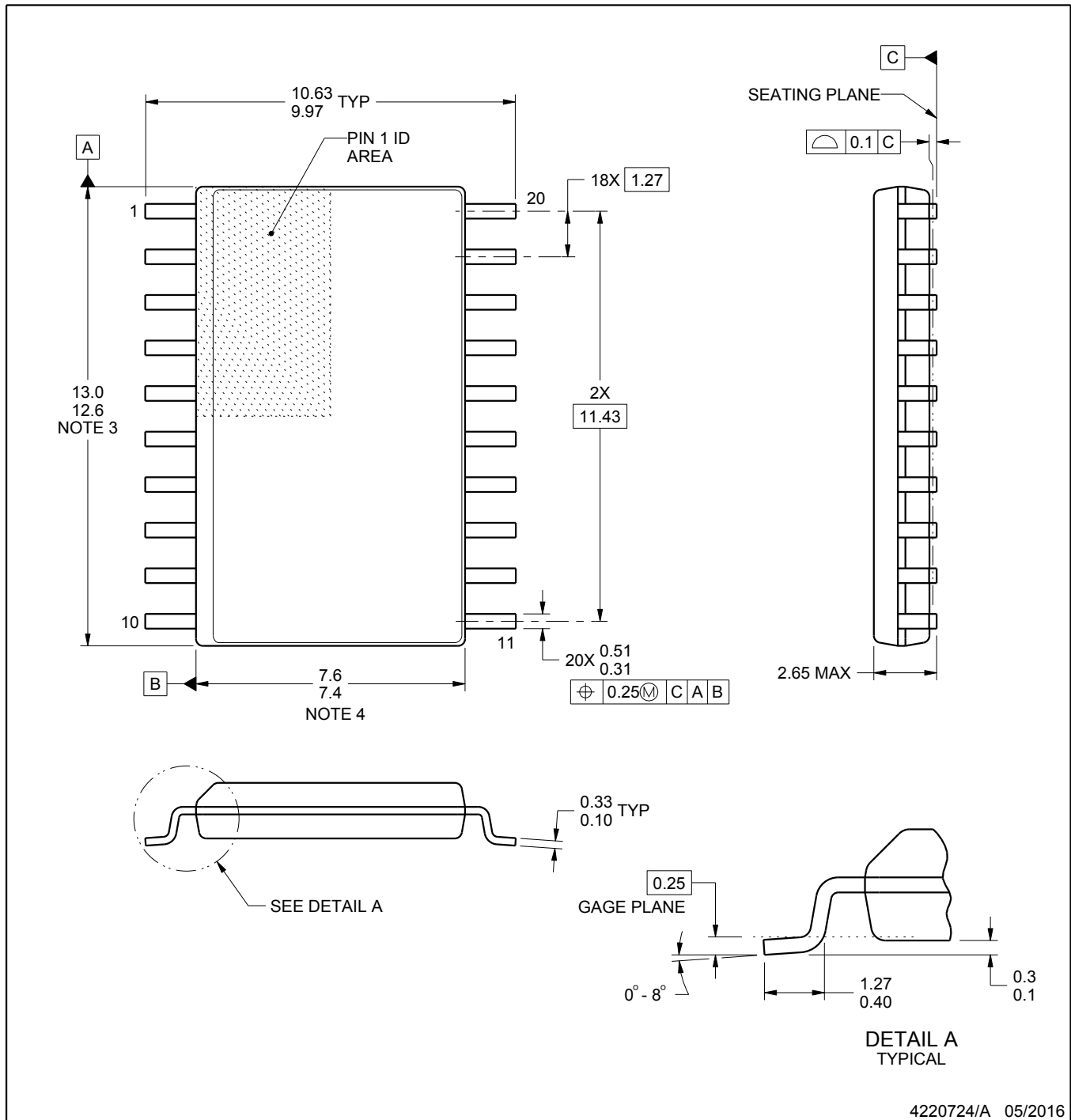
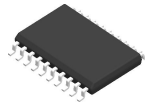


PINS ** DIM	14	16	18	20
A MAX	0.775 (19,69)	0.775 (19,69)	0.920 (23,37)	1.060 (26,92)
A MIN	0.745 (18,92)	0.745 (18,92)	0.850 (21,59)	0.940 (23,88)
MS-001 VARIATION	AA	BB	AC	AD



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.



4220724/A 05/2016

NOTES:

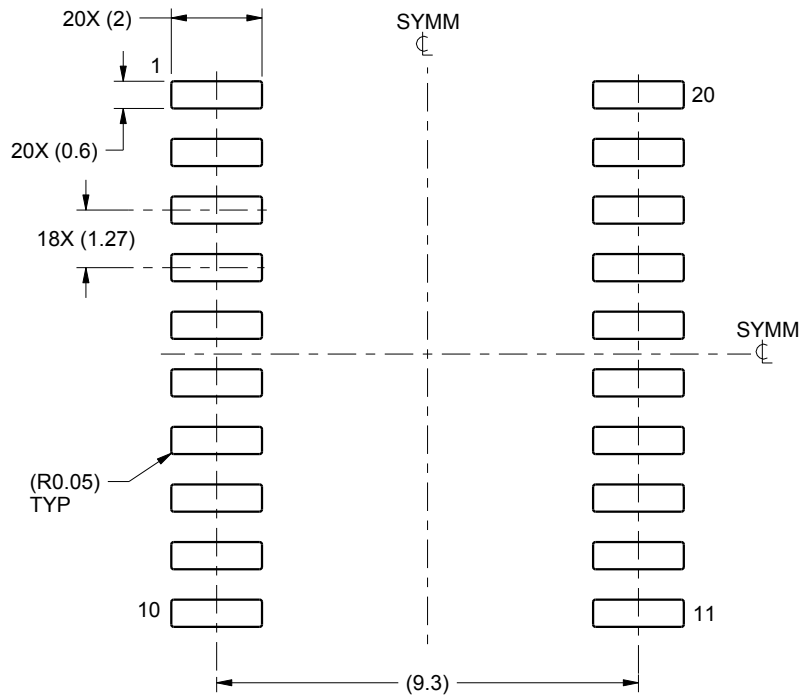
1. All linear dimensions are in millimeters. Dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
2. This drawing is subject to change without notice.
3. This dimension does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate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

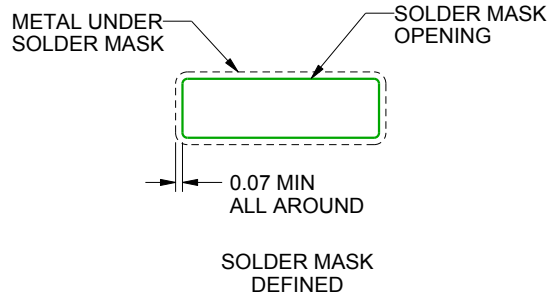
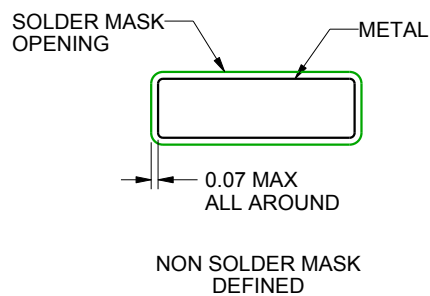
DW0020A

SOIC - 2.65 mm max height

SOIC



LAND PATTERN EXAMPLE
SCALE:6X



SOLDER MASK DETAILS

4220724/A 05/2016

NOTES: (continued)

6. Publication IPC-7351 may have alternate designs.

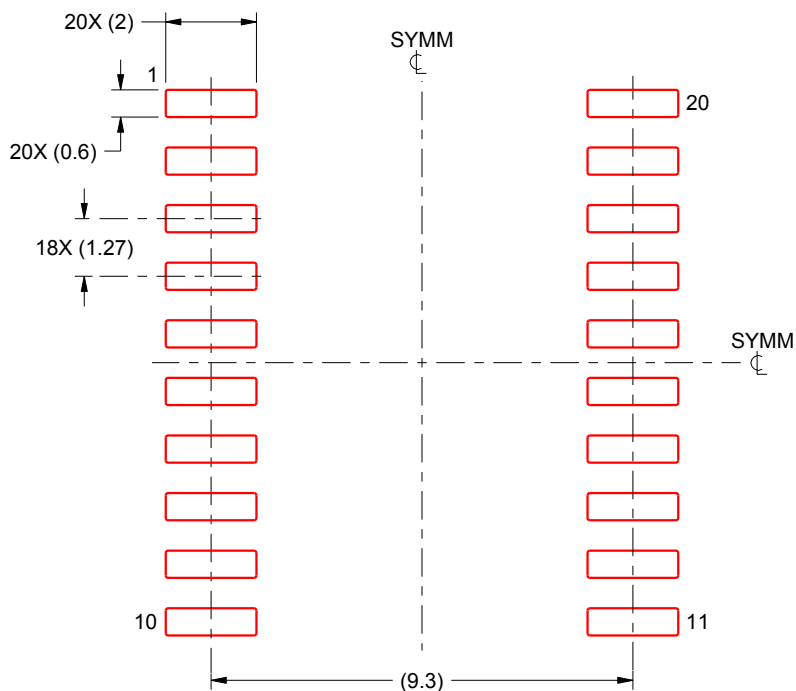
7. Solder mask tolerances between and around signal pads can vary based on board fabrication site.

EXAMPLE STENCIL DESIGN

DW0020A

SOIC - 2.65 mm max height

SOIC



SOLDER PASTE EXAMPLE
BASED ON 0.125 mm THICK STENCIL
SCALE:6X

4220724/A 05/2016

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.

重要通知和免责声明

TI“按原样”提供技术和可靠性数据（包括数据表）、设计资源（包括参考设计）、应用或其他设计建议、网络工具、安全信息和其他资源，不保证没有瑕疵且不做任何明示或暗示的担保，包括但不限于对适销性、与某特定用途的适用性或不侵犯任何第三方知识产权的暗示担保。

这些资源可供使用 TI 产品进行设计的熟练开发人员使用。您将自行承担以下全部责任：(1) 针对您的应用选择合适的 TI 产品，(2) 设计、验证并测试您的应用，(3) 确保您的应用满足相应标准以及任何其他安全、安保法规或其他要求。

这些资源如有变更，恕不另行通知。TI 授权您仅可将这些资源用于研发本资源所述的 TI 产品的相关应用。严禁以其他方式对这些资源进行复制或展示。您无权使用任何其他 TI 知识产权或任何第三方知识产权。对于因您对这些资源的使用而对 TI 及其代表造成的任何索赔、损害、成本、损失和债务，您将全额赔偿，TI 对此概不负责。

TI 提供的产品受 [TI 销售条款](#)、[TI 通用质量指南](#) 或 [ti.com](#) 上其他适用条款或 TI 产品随附的其他适用条款的约束。TI 提供这些资源并不会扩展或以其他方式更改 TI 针对 TI 产品发布的适用的担保或担保免责声明。除非德州仪器 (TI) 明确将某产品指定为定制产品或客户特定产品，否则其产品均为按确定价格收入目录的标准通用器件。

TI 反对并拒绝您可能提出的任何其他或不同的条款。

版权所有 © 2026，德州仪器 (TI) 公司

最后更新日期：2025 年 10 月