







CD74HCT4075, CD54HCT4075

ZHCSOC3 - JUNE 2020

CDx4HCT4075 三路 3 输入或门

1 特性

- 兼容 LSTTL 输入逻辑
 - $V_{IL(max)} = 0.8V , V_{IH(min)} = 2V$
- 兼容 CMOS 输入逻辑
 - 在电压为 V_{OL}、V_{OH} 时 , I_I ≤ 1µA
- 缓冲输入
- 工作电压为 4.5 V 至 5.5 V
- 宽工作温度范围: -55°C 至 +125°C
- 支持多达 10 个 LSTTL 负载的扇出
- 与 LSTTL 逻辑 IC 相比,可显著降低功耗

2 应用

- 通过更少的输入来监控误差信号
- 将低电平有效使能信号进行结合

3 说明

该器件包含三个独立的 3 输入或门。每个逻辑门以正 逻辑执行布尔函数 Y = A + B + C。

器件信息(1)

器件型号	封装	封装尺寸(标称值)				
CD74HCT4075E	PDIP (14)	19.30mm × 6.40mm				
CD54HCT4075F	CDIP (14)	21.30mm × 7.60mm				

(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

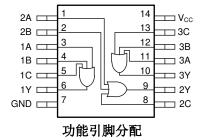




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4 Revision History

DATE	REVISION	NOTES
June 2020	*	Initial release. Moved the HCT devices from the SCHS210 to a standalone data sheet.



5 Pin Configuration and Functions

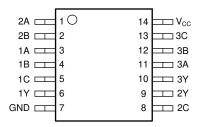


图 5-1. N or J Package 14-Pin PDIP or CDIP Top View

Pin Functions

	PIN	I/O	DESCRIPTION
NAME	NO.	- I/O	DESCRIPTION
2A	1	Input	Channel 2, Input A
2B	2	Input	Channel 2, Input B
1A	3	Input	Channel 1, Input A
1B	4	Input	Channel 1, Input B
1C	5	Input	Channel 1, Input C
1Y	6	Output	Channel 1, Output Y
GND	7	_	Ground
2C	8	Input	Channel 2, Input C
2Y	9	Output	Channel 2, Output Y
3Y	10	Output	Channel 3, Output Y
3A	11	Input	Channel 3, Input A
3B	12	Input	Channel 3, Input B
3C	13	Input	Channel 3, Input C
V _{CC}	14	_	Positive Supply



6 Specifications

6.1 Absolute Maximum Ratings

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

			MIN	MAX	UNIT	
V _{CC}	Supply voltage		- 0.5	7	V	
I _{IK}	Input clamp current ⁽²⁾	$V_{I} < -0.5 \text{ V or } V_{I} > V_{CC} + 0.5 \text{ V}$		±20	mA	
I _{OK}	Output clamp current ⁽²⁾	$V_{O} < -0.5 \text{ V or } V_{O} > V_{CC} + 0.5 \text{ V}$		±20	mA	
Io	Continuous output current V _O > - 0.5 V or V + 0.5 V			±25	mA	
	Continuous current through V _{CC} or GND			±50	mA	
_	Junction temperature ⁽³⁾	Plastic package		150	°C	
TJ	Junction temperature(-)	Hermetic package or die		175		
	Lead temperature (soldering 10s)	SOIC - lead tips only		300	°C	
T _{stg}	Storage temperature		- 65	150	°C	

⁽¹⁾ Stresses beyond those listed under Absolute Maximum Rating may cause permanent damage to the device. These are stress ratings only, which do not imply functional operation of the device at these or any other conditions beyond those indicated under Recommended Operating Condition. Exposure to absolute-maximum-rated conditions for extended periods may affect device reliability.

6.2 Recommended Operating Conditions

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

			MIN	NOM	MAX	UNIT
V _{CC}	Supply voltage		4.5		5.5	V
V _{IH}	High-level input voltage	V _{CC} = 4.5 V to 5.5 V	2			V
V _{IL}	Low-level input voltage	V _{CC} = 4.5 V to 5.5 V			0.8	V
VI	Input voltage		0		V _{CC}	V
Vo	Output voltage		0		V _{CC}	V
	Input transition time	V _{CC} = 4.5 V			500	no
t _t	Input transition time	V _{CC} = 5.5 V			400	ns
T _A	Operating free-air temperature		- 55	-	125	°C

6.3 Thermal Information

		CD74HCT4075	
	THERMAL METRIC ⁽¹⁾	N (PDIP)	UNIT
		14 PINS	
R ₀ JA	Junction-to-ambient thermal resistance	61.2	°C/W
R _{θ JC(top)}	Junction-to-case (top) thermal resistance	48.9	°C/W
R ₀ JB	Junction-to-board thermal resistance	40.9	°C/W
Ψ_{JT}	Junction-to-top characterization parameter	28.6	°C/W
Ψ_{JB}	Junction-to-board characterization parameter	40.7	°C/W
R _{θ JC(bot)}	Junction-to-case (bottom) thermal resistance	N/A	°C/W

⁽¹⁾ For more information about traditional and new thermal metrics, see the Semiconductor and IC Package Thermal Metrics application report.

⁽²⁾ The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

⁽³⁾ Guaranteed by design.



6.4 Electrical Characteristics

over operating free-air temperature range; typical values measured at $T_A = 25$ °C (unless otherwise noted).

	p =	-					Opera	ting free	-air tem	peratur	e (T _A)			
P	ARAMETER	ETER TEST CONDITIONS		V _{CC}	25°C		- 40°C to 85°C			- 55°C to 125°C			UNIT	
					MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	
V _{OH}	High-level output voltage	V _I = V _{IH} or	I _{OH} = -20 μΑ	4.5 V	4.4			4.4			4.4			>
V ОН		V _{IL}	I _{OH} = -4 mA	4.5 V	3.98			3.84			3.7			V
V _{OL}	Low-level output voltage		I _{OL} = 20 μΑ	4.5 V			0.1			0.1			0.1	٧
		V _{IL}	I _{OL} = 4 mA	4.5 V			0.26			0.33			0.4	
II	Input leakage current	V _I = V _{CC} and GND	I _O = 0	5.5 V			±0.1			±1			±1	μΑ
I _{CC}	Supply current	V _I = V _{CC} or GND	I _O = 0	5.5 V			2			20			40	μΑ
Δ I _{CC}	Additional Quiescent Device Current Per Input Pin.	V _I = V _{CC} - 2.1		4.5 V to 5.5 V		100	360			450			490	μА
Ci	Input capacitance			5 V			10			10			10	pF

⁽¹⁾ For dual-supply systems theoretical worst case (V_1 = 2.4 V, V_{CC} = 5.5 V) specification is 1.8 mA.

6.5 Switching Characteristics

over operating free-air temperature range; typical values measured at TA = 25°C (unless otherwise noted).

				TEST		Operating free-air temperature (T _A)									
	PARAMETER	FROM TO CONDITIO		CONDITIO	V _{cc}	25°C		- 40°C to 85°C		35°C	- 55°C to 125°C		UNIT		
				NS		MIN	TYP	MAX	MIN	TYP	MAX	MIN	TYP	MAX	
+ .	Propagation delay	A or B	Υ	C _L = 50 pF	4.5 V			24			30			36	ns
t _{pd}		A or B	Υ	C _L = 15 pF	5 V		9								1115
t _t	Transition-time		Υ	C _L = 50 pF	4.5 V			15			19			22	ns

6.6 Operating Characteristics

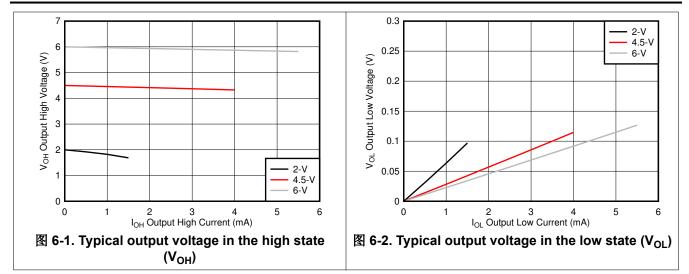
over operating free-air temperature range; typical values measured at T_A = 25°C (unless otherwise noted).

	PARAMETER	TEST CONDITIONS	V _{cc}	MIN	TYP MAX	UNIT
C _{pd}	Power dissipation capacitance per gate	No load	5 V		28	pF

6.7 Typical Characteristics

 $T_A = 25^{\circ}C$

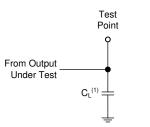






7 Parameter Measurement Information

- Phase relationships between waveforms were chosen arbitrarily. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, Z_O = 50 Ω , t_t < 6 ns.
- The outputs are measured one at a time, with one input transition per measurement.



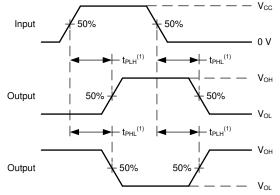
Input $t_{r}^{(1)} = t_{r}^{(1)} = t_{r}^{(1)} = 0 \text{ V}$ Output $t_{r}^{(1)} = t_{r}^{(1)} = 0 \text{ V}$

A. C_L= 50 pF and includes probe and jig capacitance.

图 7-1. Load Circuit

A. t_t is the greater of t_r and t_f .

图 7-2. Voltage Waveforms Transition Times



A. The maximum between t_{PLH} and t_{PHL} is used for t_{pd} .

图 7-3. Voltage Waveforms Propagation Delays

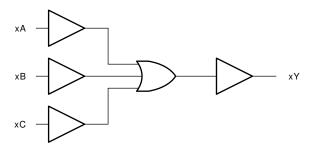


8 Detailed Description

8.1 Overview

This device contains three independent 3-input OR gates. Each gate performs the Boolean function Y = A + B + C in positive logic.

8.2 Functional Block Diagram



8.3 Feature Description

8.3.1 Balanced CMOS Push-Pull Outputs

A balanced output allows the device to sink and source similar currents. The drive capability of this device may create fast edges into light loads so routing and load conditions should be considered to prevent ringing. Additionally, the outputs of this device are capable of driving larger currents than the device can sustain without being damaged. It is important for the output power of the device to be limited to avoid damage due to overcurrent. The electrical and thermal limits defined in the #6.1 must be followed at all times.

The CD74HCT4075 can drive a load with a total capacitance less than or equal to the maximum load listed in the # 6.5 connected to a high-impedance CMOS input while still meeting all of the datasheet specifications. Larger capacitive loads can be applied, however it is not recommended to exceed the provided load value. If larger capacitive loads are required, it is recommended to add a series resistor between the output and the capacitor to limit output current to the values given in the # 6.1.

8.3.2 TTL-Compatible CMOS Inputs

TTL-Compatible CMOS inputs are high impedance and are typically modeled as a resistor from the input to ground in parallel with the input capacitance given in the # 6.4. The worst case resistance is calculated with the maximum input voltage, given in the # 6.1, and the maximum input leakage current, given in the # 6.4, using ohm's law (R = V ÷ I).

Signals applied to the inputs need to have fast edge rates, as defined by $\Delta t / \Delta v$ in the #6.2 to avoid excessive current consumption and oscillations. If a slow or noisy input signal is required, a device with a Schmitt-trigger input should be used to condition the input signal prior to the TTL-compatible CMOS input.

TTL-Compatible CMOS inputs have a lower threshold voltage than standard CMOS inputs to allow for compatibility with older bipolar logic devices. See the # 6.2 for the valid input voltages for the CD74HCT4075.



8.3.3 Clamp Diode Structure

The inputs and outputs to this device have both positive and negative clamping diodes as depicted in 🗵 8-1.

CAUTION

Voltages beyond the values specified in the † 6.1 table can cause damage to the device. The recommended input and output voltage ratings may be exceeded if the input and output clamp-current ratings are observed.

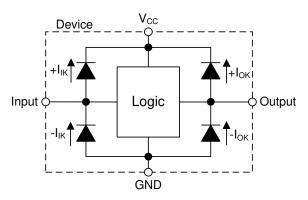


图 8-1. Electrical Placement of Clamping Diodes for Each Input and Output

8.4 Device Functional Modes

表 8-1. Function Table

	INPUTS								
Α	В	С	Y						
L	L	L	L						
Н	Х	Х	Н						
Х	Н	Х	Н						
Х	Х	Н	Н						



9 Application and Implementation

备注

以下应用部分中的信息不属于 TI 器件规格的范围, TI 不担保其准确性和完整性。TI 的客户应负责确定器件是否适用于其应用。客户应验证并测试其设计,以确保系统功能。

9.1 Application Information

This device is used to directly control the Enable pin of a fan driver. The fan driver requires only one input signal to be HIGH before being enabled, and should be disabled in the event that all signals go LOW. The 4-input OR gate function combines the four individual overheat signals into a single active-high enable signal.

9.2 Typical Application

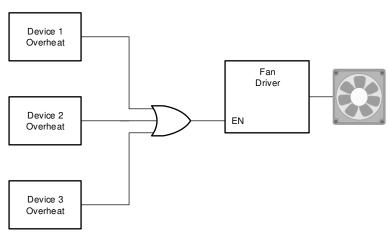


图 9-1. Typical application schematic

9.2.1 Design Requirements

9.2.1.1 Power Considerations

Ensure the desired supply voltage is within the range specified in the # 6.2. The supply voltage sets the device's electrical characteristics as described in the # 6.4.

The supply must be capable of sourcing current equal to the total current to be sourced by all outputs of the CD74HCT4075 plus the maximum supply current, I_{CC} , listed in the #6.4. The logic device can only source or sink as much current as it is provided at the supply and ground pins, respectively. Be sure not to exceed the maximum total current through GND or V_{CC} listed in the #6.1.

Total power consumption can be calculated using the information provided in CMOS Power Consumption and C_{nd} Calculation.

Thermal increase can be calculated using the information provided in Thermal Characteristics of Standard Linear and Logic (SLL) Packages and Devices.

CAUTION

The maximum junction temperature, $T_J(max)$ listed in the #6.1, is an additional limitation to prevent damage to the device. Do not violate any values listed in the #6.1. These limits are provided to prevent damage to the device.



9.2.1.2 Input Considerations

Unused inputs must be terminated to either V_{CC} or ground. These can be directly terminated if the input is completely unused, or they can be connected with a pull-up or pull-down resistor if the input is to be used sometimes, but not always. A pull-up resistor is used for a default state of HIGH, and a pull-down resistor is used for a default state of LOW. The resistor size is limited by drive current of the controller, leakage current into the CD74HCT4075, as specified in the # 6.4, and the desired input transition rate. A 10-k Ω resistor value is often used due to these factors.

Refer to the # 8.3 for additional information regarding the inputs for this device.

9.2.1.3 Output Considerations

The positive supply voltage is used to produce the output HIGH voltage. Drawing current from the output will decrease the output voltage as specified by the V_{OH} specification in the # 6.4. Similarly, the ground voltage is used to produce the output LOW voltage. Sinking current into the output will increase the output voltage as specified by the V_{OL} specification in the # 6.4.

Unused outputs can be left floating. Do not connect outputs directly to V_{CC} or ground.

Refer to # 8.3 for additional information regarding the outputs for this device.

9.2.2 Detailed Design Procedure

- 1. Add a decoupling capacitor from V_{CC} to GND. The capacitor needs to be placed physically close to the device and electrically close to both the V_{CC} and GND pins. An example layout is shown in the #11.
- 2. Ensure the capacitive load at the output is ≤ 70 pF. This is not a hard limit, however it will ensure optimal performance. This can be accomplished by providing short, appropriately sized traces from the CD74HCT4075 to the receiving device.
- 3. Ensure the resistive load at the output is larger than $(V_{CC} / I_O(max)) \Omega$. This will ensure that the maximum output current from the #6.1 is not violated. Most CMOS inputs have a resistive load measured in megaohms; much larger than the minimum calculated above.
- 4. Thermal issues are rarely a concern for logic gates, however the power consumption and thermal increase can be calculated using the steps provided in the application report, CMOS Power Consumption and Cpd Calculation

9.2.3 Application Curves

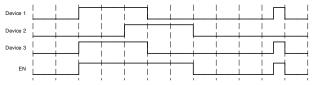


图 9-2. Typical application timing diagram

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10 Power Supply Recommendations

The power supply can be any voltage between the minimum and maximum supply voltage rating located in the # 6.2. Each V_{CC} terminal should have a 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, as shown in # 11-1.



11 Layout

11.1 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. 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.

11.2 Layout Example

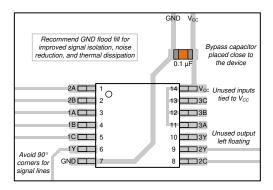


图 11-1. Example layout for the CD74HCT4075



12 Device and Documentation Support

12.1 Documentation Support

12.1.1 Related Documentation

For related documentation see the following:

- HCMOS Design Considerations
- CMOS Power Consumption and CPD Calculation
- · Designing with Logic

12.2 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》。

12.3 Trademarks

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12.4 静电放电警告



静电放电 (ESD) 会损坏这个集成电路。德州仪器 (TI) 建议通过适当的预防措施处理所有集成电路。如果不遵守正确的处理和安装程序,可能会损坏集成电路。

ESD 的损坏小至导致微小的性能降级,大至整个器件故障。精密的集成电路可能更容易受到损坏,这是因为非常细微的参数更改都可能会导致器件与其发布的规格不相符。

12.5 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。

13 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.

www.ti.com 9-Nov-2025

PACKAGING INFORMATION

Orderable part number	Status	Material type	Package Pins	Package qty Carrier	RoHS (3)	Lead finish/ Ball material	MSL rating/ Peak reflow	Op temp (°C)	Part marking (6)
						(4)	(5)		
CD54HCT4075F3A	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	CD54HCT4075F3A
CD54HCT4075F3A.A	Active	Production	CDIP (J) 14	25 TUBE	No	SNPB	N/A for Pkg Type	-55 to 125	CD54HCT4075F3A
CD74HCT4075E	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	-55 to 125	CD74HCT4075E
CD74HCT4075E.A	Active	Production	PDIP (N) 14	25 TUBE	Yes	NIPDAU	N/A for Pkg Type	-55 to 125	CD74HCT4075E

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

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 CD54HCT4075, CD74HCT4075:

⁽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.

PACKAGE OPTION ADDENDUM

www.ti.com 9-Nov-2025

● Catalog : CD74HCT4075

Military : CD54HCT4075

NOTE: Qualified Version Definitions:

Catalog - TI's standard catalog product

• Military - QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

www.ti.com 23-May-2025

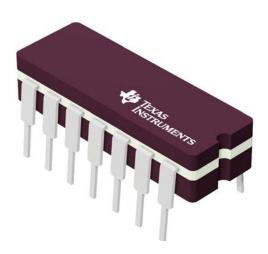
TUBE



*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
CD74HCT4075E	N	PDIP	14	25	506	13.97	11230	4.32
CD74HCT4075E	N	PDIP	14	25	506	13.97	11230	4.32
CD74HCT4075E.A	N	PDIP	14	25	506	13.97	11230	4.32
CD74HCT4075E.A	N	PDIP	14	25	506	13.97	11230	4.32

CERAMIC DUAL IN LINE PACKAGE



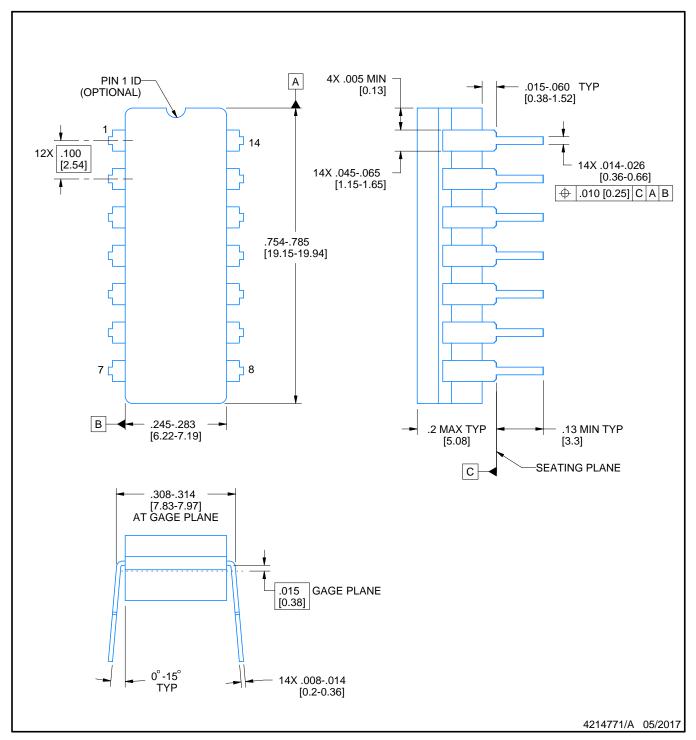
Images above are just a representation of the package family, actual package may vary. Refer to the product data sheet for package details.

4040083-5/G





CERAMIC DUAL IN LINE PACKAGE

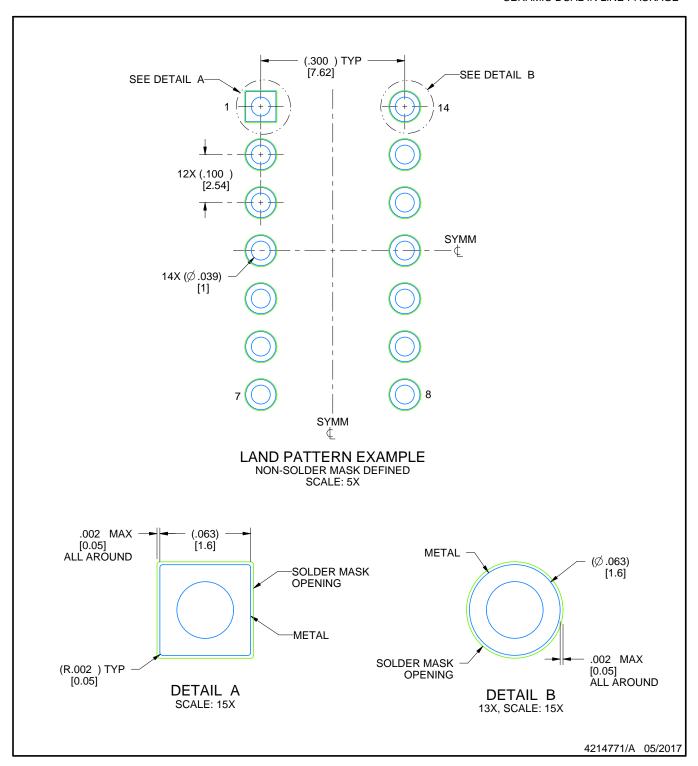


NOTES:

- 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 hermitically sealed with a ceramic lid using glass frit.
- His package is remitted by sealed with a ceramic its using glass mit.
 Index point is provided on cap for terminal identification only and on press ceramic glass frit seal only.
 Falls within MIL-STD-1835 and GDIP1-T14.



CERAMIC DUAL IN LINE PACKAGE



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



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最后更新日期: 2025 年 10 月