抗辐射航空级裸片，四路 2 输入正或非 (NOR) 门。

查询样品: SN54AC02-DIE

特性

- **AC** 类型特有 **1.5V** 至 **5.5V** 运行
- 抗辐射：**50kRad (Si)** 总电离辐射剂量 **(TID)** (1)
  - **TID** 剂量率 **< 每秒 2mRAD**

(1) 放射耐受性是一个基于最初器件标准的典型值。 提供辐射批次验收测试 — 联系厂家了解详细信息。

说明

SN54AC02-DIE 器件包含 4 个执行布尔函数 $Y=\overline{A}$的独立 2 输入 NOR 门。 • 在正逻辑中，$\overline{B}$或 $Y=\overline{A+B}$。

ORDERING INFORMATION(1)

PRODUCT	PACKAGE DESIGNATOR	PACKAGE	ORDERABLE PART NUMBER	PACKAGE QUANTITY
SN54AC02	TD	Bare die in waffle pack(2)	SN54AC02VTD1	100
			SN54AC02VTD2	10

(1) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI web site at www.ti.com.

(2) Processing is per the Texas Instruments space production baseline and is in compliance with the Texas Instruments Quality Control System in effect at the time of manufacture. Electrical screening consists of DC parametric and functional testing at room temperature only. Unless otherwise specified by Texas Instruments AC performance and performance over temperature is not warranted. Visual Inspection is performed in accordance with MIL-STD-883 Test Method 2010 Condition B at 75X minimum.

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.

PRODUCTION DATA information is current as of publication date. Products conform to specifications per the terms of the Texas Instruments standard warranty. Production processing does not necessarily include testing of all parameters.

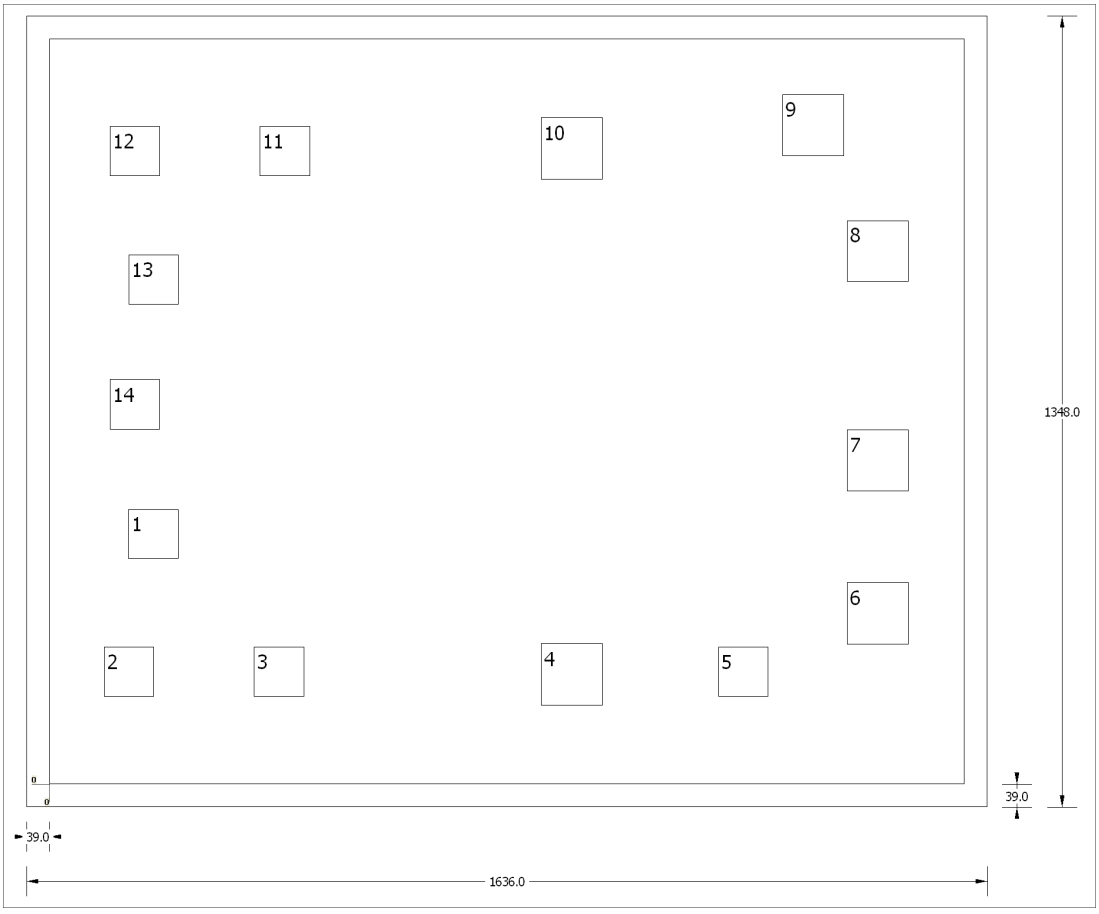
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This integrated circuit can be damaged by ESD. Texas Instruments recommends that all integrated circuits be handled with appropriate precautions. Failure to observe proper handling and installation procedures can cause damage.

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.

BARE DIE INFORMATION

DIE THICKNESS	BACKSIDE FINISH	BACKSIDE POTENTIAL	BOND PAD METALLIZATION COMPOSITION	BOND PAD THICKNESS
10.5 mils.	Silicon with backgrind	Floating	AlCu(2%) TiW	880.3 nm



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Table 1. Bond Pad Coordinates in Microns

DESCRIPTION	PAD NUMBER	X MIN	Y MIN	X MAX	Y MAX
1Y	1	134.5	383.5	219.5	468.5
1A	2	92.75	149	178	234.25
1B	3	348.25	149	433.5	234.25
2Y	4	837	134.5	942	239.5
2A	5	1139	149	1224.25	234.25
2B	6	1358	238.5	1463	343.5
GND	7	1358	499	1463	604
3A	8	1358	855.5	1463	960.5
3B	9	1248	1070	1353	1175
3Y	10	837	1030.5	942	1135.5
4A	11	358.25	1035.75	443.5	1121
4B	12	102.75	1035.75	188	1121
4Y	13	135.25	817	220.5	902.25
VCC	14	103.25	604.25	188.5	689.5

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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)
SN54AC02VTD1	Active	Production	null (null) | 0	100 | TUBE	Yes	Call TI	N/A for Pkg Type	25 to 25	
SN54AC02VTD1.A	Active	Production	null (null) | 0	100 | TUBE	Yes	Call TI	N/A for Pkg Type	25 to 25	
SN54AC02VTD2	Active	Production	null (null) | 0	10 | TUBE	Yes	Call TI	N/A for Pkg Type	25 to 25	
SN54AC02VTD2.A	Active	Production	null (null) | 0	10 | TUBE	Yes	Call TI	N/A for Pkg Type	25 to 25	

(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.

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OTHER QUALIFIED VERSIONS OF SN54AC02-DIE :

- Space : SN54AC02-SP

NOTE: Qualified Version Definitions:

- Space - Radiation tolerant, ceramic packaging and qualified for use in Space-based application

重要通知和免责声明

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