







**SN74HC266** 

ZHCSNX6G - DECEMBER 1982 - REVISED APRIL 2021

# 使用漏极开路输出的 SN74HC266 四路 2 输入 XNOR 门

# 1 特性

- 宽工作电压范围: 2V 至 6V
- 输出可驱动多达 10 个低功耗肖特基晶体管逻辑电 路 (LSTTL) 负载
- 低功耗, I<sub>CC</sub> 最大值为 20μA
- 5V 时,典型 t<sub>pd</sub> = 8ns
- ±4 mA 输出驱动 (在 5V 时)
- 低输入电流, 1µA

# 2 应用

- 可选缓冲器/逆变器
- 时钟相位差检测器

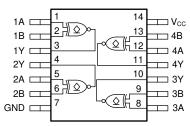
# 3 说明

该器件包含四个具有漏极开路输出的独立 2 输入异或 非门。每个逻辑门以正逻辑执行布尔函数 Y = A ⊕ B。

### 器件信息(1)

	HH	
器件型号	封装	封装尺寸(标称值)
SN74HC266N	PDIP (14)	19.30mm × 6.40mm
SN74HC266NS	SO (14)	10.20mm × 5.30mm
SN74HC266D	SOIC (14)	8.70mm × 3.90mm

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



SN74HC266 的功能引脚排列



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4 Revision History 注:以前版本的页码可能与当前版本的页码不同

С	Changes from Revision F (August 2003) to Revision G (April 2021)	Page
•	更新了整个文档中的表格、图和交叉参考的编号格式	1
•	更新为新的 TIS 格式	1

# **5 Pin Configuration and Functions**

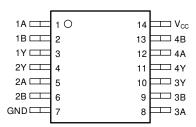


图 5-1. D, N, or NS Package 14-Pin SOIC, PDIP, or SO Top View

# **Pin Functions**

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



# **6 Specifications**

# **6.1 Absolute Maximum Ratings**

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

			MIN	MAX	UNIT
V <sub>CC</sub>	Supply voltage		- 0.5	7	V
I <sub>IK</sub>	Input clamp current <sup>(2)</sup>	$V_I < 0$ or $V_I > V_{CC}$		±20	mA
I <sub>OK</sub>	Output clamp current <sup>(2)</sup>	$V_O < 0$ or $V_O > V_{CC}$		±20	mA
Io	Continuous output current	V <sub>O</sub> = 0 to V <sub>CC</sub>		±25	mA
	Continuous current through V <sub>CC</sub> or GND	•		±50	mA
TJ	Junction temperature <sup>(3)</sup>			150	°C
T <sub>stg</sub>	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.
- (2) The input and output voltage ratings may be exceeded if the input and output current ratings are observed.
- (3) Guaranteed by design.

# **6.2 Recommended Operating Conditions**

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

	3 1 3 (	,	MIN	NOM	MAX	UNIT
V <sub>CC</sub>	Supply voltage	,	2	5	6	V
		V <sub>CC</sub> = 2 V	1.5			
V <sub>IH</sub>	High-level input voltage	V <sub>CC</sub> = 4.5 V	3.15			V
		V <sub>CC</sub> = 6 V	4.2			
		V <sub>CC</sub> = 2 V			0.5	
$V_{IL}$	Low-level input voltage	V <sub>CC</sub> = 4.5 V			1.35	V
		V <sub>CC</sub> = 6 V			1.8	
VI	Input voltage		0		V <sub>CC</sub>	V
Vo	Output voltage		0		V <sub>CC</sub>	V
		V <sub>CC</sub> = 2 V			1000	
t <sub>t</sub>	Input transition time	V <sub>CC</sub> = 4.5 V			500	ns
		V <sub>CC</sub> = 6 V			400	
T <sub>A</sub>	Operating free-air temperature		- 40		85	°C

### **6.3 Thermal Information**

			SN74HC266				
THERMAL METRIC <sup>(1)</sup>		N (PDIP)	D (SOIC)	NS (SOP)	UNIT		
		14 PINS	14 PINS	14 PINS			
R <sub>0 JA</sub>	Junction-to-ambient thermal resistance	62.5	133.6	122.6	°C/W		
R <sub>θ JC(top)</sub>	Junction-to-case (top) thermal resistance	42.4	89.0	81.8	°C/W		
R <sub>0</sub> JB	Junction-to-board thermal resistance	50.2	89.5	83.8	°C/W		
$\Psi_{JT}$	Junction-to-top characterization parameter	29.8	45.5	45.4	°C/W		
ΨЈВ	Junction-to-board characterization parameter	42.0	89.1	83.4	°C/W		

Product Folder Links: SN74HC266

THERMAL METRIC <sup>(1)</sup>		N (PDIP)	D (SOIC)	NS (SOP)	UNIT
		14 PINS	14 PINS	14 PINS	
R <sub>0 JC(bot)</sub> Junction-to-case (bottom) thermal resistance		N/A	N/A	N/A	°C/W

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

#### 6.4 Electrical Characteristics

over operating free-air temperature range; typical values measured at T<sub>A</sub> = 25°C (unless otherwise noted).

			0	perating	free-air	temperat	ure (T <sub>A</sub> )						
	PARAMETER	ARAMETER TEST CONDITIONS		ST CONDITIONS V <sub>CC</sub>		25°C		-40°C to 85°C			UNIT		
					MIN	TYP	MAX	MIN	TYP	MAX			
I <sub>OH</sub>	High-level output current	V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>	V <sub>O</sub> = V <sub>CC</sub>	6 V		0.01	0.5			5	μΑ		
				2 V		0.002	0.1			0.1			
					I <sub>OL</sub> = 20 μA	4.5 V		0.001	0.1			0.1	
V <sub>OL</sub>	Low-level output voltage	$V_I = V_{IH}$ or $V_{II}$		6 V		0.001	0.1			0.1	V		
	Voltago	0. V <sub>IL</sub>	I <sub>OL</sub> = 4 mA	4.5 V		0.17	0.26			0.33			
			I <sub>OL</sub> = 5.2 mA	6 V		0.15	0.26			0.33			
I <sub>I</sub>	Input leakage current	V <sub>I</sub> = V <sub>CC</sub> c	or O	6 V		±0.1	±100			±1000	nA		
I <sub>CC</sub>	Supply current	V <sub>I</sub> = V <sub>CC</sub> or 0	V <sub>I</sub> = V <sub>CC</sub> or 0	6 V			2			20	μΑ		
C <sub>i</sub>	Input capacitance			2 V to 6 V		3	10			10	pF		

# 6.5 Switching Characteristics

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

								Operating free-air temperature (T <sub>A</sub> )						
	PARAMETER	PARAMETER FROM TO V <sub>CC</sub> 25°C					- 40°C to 85°C		°C	UNIT				
					MIN	TYP	MAX	MIN	TYP	MAX				
				2 V		60	125			155				
t <sub>PLH</sub>	Propagation delay (Low to High)	A or B	Υ	4.5 V		13	25			31	ns			
				6 V		10	23			26				
				2 V		60	100			125				
t <sub>PHL</sub>	Propagation delay (High to Low)	A or B	Y	4.5 V		13	20			25	ns			
				6 V		10	17			21				
				2 V		28	75			95				
t <sub>t</sub>	Transition-time		Υ	4.5 V		8	15	,	,	19	ns			
				6 V		6	13			16				

# **6.6 Operating Characteristics**

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

	<u> </u>	0 1 11				
	PARAMETER	TEST CONDITIONS	V <sub>cc</sub>	MIN	TYP M	AX UNIT
C <sub>pd</sub>	Power dissipation capacitance per gate	No load	2 V to 6 V		35	pF

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# **6.7 Typical Characteristics**

T<sub>A</sub> = 25°C

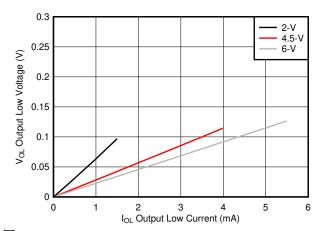
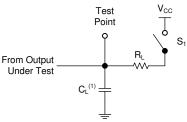


图 6-1. Typical output voltage in the low state ( $V_{OL}$ )

### 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  $\Omega$ ,  $t_t$  < 6 ns.
- The outputs are measured one at a time, with one input transition per measurement.



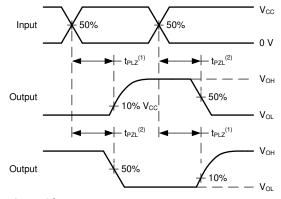
A. C<sub>L</sub>= 50 pF and includes probe and jig capacitance.

Output  $\frac{10\%}{10\%}$   $\frac{10\%}{10\%}$   $\frac{10\%}{10\%}$   $\frac{10\%}{10\%}$   $\frac{10\%}{10\%}$   $\frac{10\%}{10\%}$   $\frac{10\%}{10\%}$   $\frac{10\%}{10\%}$   $\frac{10\%}{10\%}$   $\frac{10\%}{10\%}$ 

A.  $t_t$  is the greater of  $t_r$  and  $t_f$ .

### 图 7-1. Load Circuit

# 图 7-2. Voltage Waveforms Transition Times



The maximum between t<sub>PLH</sub> and t<sub>PHL</sub> is used for t<sub>pd</sub>.

图 7-3. Voltage Waveforms Propagation Delays

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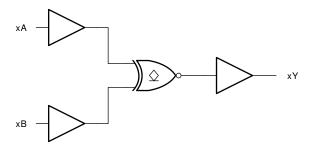
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# 8 Detailed Description

#### 8.1 Overview

This device contains four independent 2-input XNOR gates with open-drain outputs. Each gate performs the Boolean function  $Y = \overline{A \oplus B}$  in positive logic.

# 8.2 Functional Block Diagram



#### 8.3 Feature Description

#### 8.3.1 CMOS Open-Drain Outputs

The open-drain output allows the device to sink current to GND but not to source current from  $V_{CC}$ . When the output is not actively pulling the line low, it will go into a high impedance state. This allows the device to be used for a wide variety of applications, including up-translation and down-translation, as the output voltage can be determined by an external pull-up resistor.

The current drive capability of this device creates 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 power output of the device to be limited to avoid thermal runaway and damage due to over-current. The electrical and thermal limits defined the in the *Absolute Maximum Ratings*must be followed at all times.

The SN74HC266 can drive a load with a total capacitance less than or equal to the maximum load listed in the *Switching Characteristics* 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 *Absolute Maximum Ratings*.

#### 8.3.2 Standard CMOS Inputs

Standard 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 *Electrical Characteristics*. The worst case resistance is calculated with the maximum input voltage, given in the *Absolute Maximum Ratings*, and the maximum input leakage current, given in the *Electrical Characteristics*, using ohm's law  $(R = V \div I)$ .

Signals applied to the inputs need to have fast edge rates, as defined by the input transition time in the *Recommended Operating Conditions* 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 standard CMOS input.

#### 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.

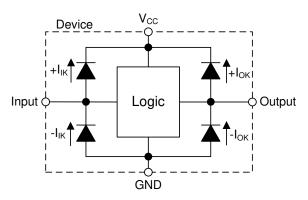


图 8-1. Electrical Placement of Clamping Diodes for Each Input and Output

#### **8.4 Device Functional Modes**

表 8-1. Function Table

INP	OUTPUT	
Α	В	Y
L	L	Z
L	Н	L
Н	L	L
Н	Н	Z

# 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

In this application, one 2-input open-drain XNOR gate is used to create a selectable buffer or inverter as shown in 899-1. This application allows for using a quad XNOR gate to produce any compbination of one to four buffers and inverters. Commonly each channel is permanently connected as either an inverter or buffer, however some systems do require the ability to switch between the two. If some channels are unused, the inputs can be grounded and the outputs left open.

### 9.2 Typical Application

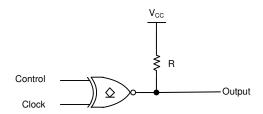


图 9-1. Typical application schematic

#### 9.2.1 Design Requirements

#### 9.2.1.1 Power Considerations

Ensure the desired supply voltage is within the range specified in the *Recommended Operating Conditions*. The supply voltage sets the device's electrical characteristics as described in the *Electrical Characteristics*.

The ground must be capable of sinking current equal to the total current to be sunk by all outputs of the SN74HC266 plus the maximum supply current, I<sub>CC</sub>, listed in *Electrical Characteristics*. The logic device can only sink as much current as is provided by the external pull-up resistor or other supply source. Be sure not to exceed the maximum total current through GND listed in the *Absolute Maximum Ratings*.

Total power consumption can be calculated using the information provided in CMOS Power Consumption and  $C_{pd}$  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 *Absolute Maximum Ratings*, is an *additional limitation* to prevent damage to the device. Do not violate any values listed in the *Absolute Maximum Ratings*. 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 SN74HC266, as specified in the *Electrical Characteristics*, and the desired input transition rate. A 10-k  $\Omega$  resistor value is often used due to these factors.

The SN74HC266 has standard CMOS inputs, so input signal edge rates cannot be slow. Slow input edge rates can cause oscillations and damaging shoot-through current. The recommended rates are defined in the Recommended Operating Conditions.

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

#### 9.2.1.3 Output Considerations

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<sub>OL</sub> specification in the *Electrical Characteristics*. The plot in the *Typical* Characteristics provides a typical relationship between output voltage and current for this device.

Open-drain outputs can be directly connected together to produce a wired-AND. This is possible because the outputs cannot source current, and thus can never be in bus-contention.

Unused outputs can be left floating. Do not connect outputs directly to V<sub>CC</sub> 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<sub>CC</sub> 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 # 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 SN74HC266 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 Absolute Maximum Ratings 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

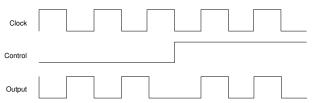


图 9-2. Typical application timing diagram



# 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-  $\mu$  F capacitor is recommended for this device. It is acceptable to parallel multiple bypass caps to reject different frequencies of noise. The 0.1-  $\mu$  F and 1-  $\mu$  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

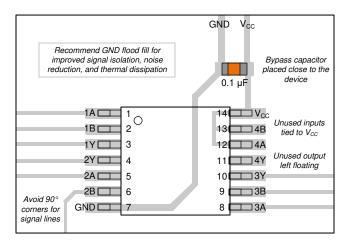


图 11-1. Example layout for the SN74HC266

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# 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 Related Links

The table below lists quick access links. Categories include technical documents, support and community resources, tools and software, and quick access to order now.

### 12.3 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》。

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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。

### 12.6 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.

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#### PACKAGING INFORMATION

Orderable part number	Status	Material type	Package   Pins	Package qty   Carrier	RoHS	Lead finish/	MSL rating/	Op temp (°C)	Part marking
	(1)	(2)			(3)	Ball material	Peak reflow		(6)
						(4)	(5)		
SN74HC266D	Obsolete	Production	SOIC (D)   14	-	-	Call TI	Call TI	-40 to 85	HC266
SN74HC266DR	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU   SN	Level-1-260C-UNLIM	-40 to 85	HC266
SN74HC266DR.A	Active	Production	SOIC (D)   14	2500   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC266
SN74HC266DT	Obsolete	Production	SOIC (D)   14	-	-	Call TI	Call TI	-40 to 85	HC266
SN74HC266N	Active	Production	PDIP (N)   14	25   TUBE	Yes	NIPDAU	N/A for Pkg Type	-40 to 85	SN74HC266N
SN74HC266N.A	Active	Production	PDIP (N)   14	25   TUBE	Yes	NIPDAU	N/A for Pkg Type	-40 to 85	SN74HC266N
SN74HC266NSR	Active	Production	SOP (NS)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC266
SN74HC266NSR.A	Active	Production	SOP (NS)   14	2000   LARGE T&R	Yes	NIPDAU	Level-1-260C-UNLIM	-40 to 85	HC266

<sup>(1)</sup> 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.

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<sup>(2)</sup> 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.

<sup>(3)</sup> RoHS values: Yes, No, RoHS Exempt. See the TI RoHS Statement for additional information and value definition.

<sup>(4)</sup> 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.

<sup>(5)</sup> 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.

<sup>(6)</sup> 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 23-May-2025

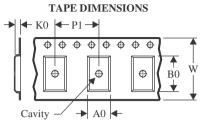
In no event shall TI's liability arising out of such information exceed the total purchase price of the TI part(s) at issue in this document sold by TI to Customer on an annual basis.

# **PACKAGE MATERIALS INFORMATION**

www.ti.com 24-Jul-2025

### TAPE AND REEL INFORMATION





A0	Dimension designed to accommodate the component width
В0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

#### 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
SN74HC266DR	SOIC	D	14	2500	330.0	16.4	6.5	9.0	2.1	8.0	16.0	Q1
SN74HC266DR	SOIC	D	14	2500	330.0	16.4	6.6	9.3	2.1	8.0	16.0	Q1
SN74HC266NSR	SOP	NS	14	2000	330.0	16.4	8.45	10.55	2.5	12.0	16.2	Q1

**PACKAGE MATERIALS INFORMATION** 

www.ti.com 24-Jul-2025



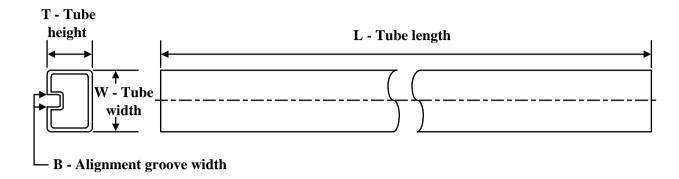
### \*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)	
SN74HC266DR	SOIC	D	14	2500	353.0	353.0	32.0	
SN74HC266DR	SOIC	D	14	2500	366.0	364.0	50.0	
SN74HC266NSR	SOP	NS	14	2000	353.0	353.0	32.0	

# **PACKAGE MATERIALS INFORMATION**

www.ti.com 24-Jul-2025

### **TUBE**



\*All dimensions are nominal

Device	Package Name	Package Type	Pins	SPQ	L (mm)	W (mm)	T (µm)	B (mm)
SN74HC266N	N	PDIP	14	25	506	13.97	11230	4.32
SN74HC266N	N	PDIP	14	25	506	13.97	11230	4.32
SN74HC266N.A	N	PDIP	14	25	506	13.97	11230	4.32
SN74HC266N.A	N	PDIP	14	25	506	13.97	11230	4.32



SMALL OUTLINE INTEGRATED CIRCUIT



#### 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-012, variation AB.



SMALL OUTLINE INTEGRATED CIRCUIT



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.



SMALL OUTLINE INTEGRATED CIRCUIT



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**

# NS (R-PDSO-G\*\*)

# 14-PINS SHOWN

### PLASTIC SMALL-OUTLINE PACKAGE



NOTES:

- A. All linear dimensions are in millimeters.
- 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).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



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