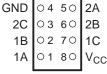
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#### **FEATURES**

- Available in the Texas Instruments
   NanoFree™ Package
- Operates at 0.8 V to 2.7 V
- Sub-1-V Operable
- Max t<sub>pd</sub> of 0.5 ns at 1.8 V
- Low Power Consumption, 10 μA at 2.7 V
- High On-Off Output Voltage Ratio
- · High Degree of Linearity
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- ESD Performance Tested Per JESD 22
  - 2000-V Human-Body Model (A114-B, Class II)
  - 200-V Machine Model (A115-A)
  - 1000-V Charged-Device Model (C101)

# 1A 1 8 V<sub>CC</sub> 1B 2 7 1C 2C 3 6 2B GND 4 5 2A





#### **DESCRIPTION/ORDERING INFORMATION**

This dual analog switch is operational at 0.8-V to 2.7-V  $V_{CC}$ , but is designed specifically for 1.1-V to 2.7-V  $V_{CC}$  operation.

The SN74AUC2G66 can handle both analog and digital signals. It permits signals with amplitudes of up to 2.7-V (peak) to be transmitted in either direction.

NanoFree™ package technology is a major breakthrough in IC packaging concepts, using the die as the package.

Applications include signal gating, chopping, modulation or demodulation (modem), and signal multiplexing for analog-to-digital and digital-to-analog conversion systems.

#### ORDERING INFORMATION

T <sub>A</sub>	PACKAGE <sup>(1)</sup>		ORDERABLE PART NUMBER	TOP-SIDE MARKING <sup>(2)</sup>
	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74AUC2G66YZPR	U6_
-40°C to 85°C	SSOP - DCT	Reel of 3000	SN74AUC2G66DCTR	U66
	VSSOP - DCU	Reel of 3000	SN74AUC2G66DCUR	U66_

(1) Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

(2) DCT: The actual top-side marking has three additional characters that designate the year, month, and assembly/test site. DCU: The actual top-side marking has one additional character that designates the assembly/test site. YZP: The actual top-side marking has three preceding characters to denote year, month, and sequence code, and one following character to designate the assembly/test site. Pin 1 identifier indicates solder-bump composition (1 = SnPb, • = Pb-free).

#### **FUNCTION TABLE**

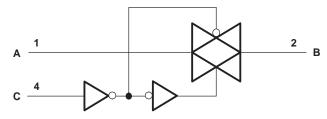
CONTROL INPUT (C)	SWITCH
L	OFF
Н	ON

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.

NanoFree is a trademark of Texas Instruments.



#### **LOGIC DIAGRAM (POSITIVE LOGIC)**



# Absolute Maximum Ratings(1)

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

			MIN	MAX	UNIT
$V_{CC}$	Supply voltage range <sup>(2)</sup>		-0.5	3.6	V
$V_{I}$	Input voltage range (2)(3)			3.6	V
V <sub>I/O</sub>	Switch I/O voltage range (2)(3)		-0.5	V <sub>CC</sub> + 0.5	V
I <sub>IK</sub>	Control input clamp current	V <sub>1</sub> < 0		-50	mA
I <sub>IOK</sub>	I/O port diode current	$V_{I/O}$ < 0 or $V_{I/O}$ > $V_{CC}$		±50	mA
I <sub>T</sub>	On-state switch current $V_{I/O} = 0 \text{ to } V_{CC}$			±50	mA
	Continuous current through V <sub>CC</sub> or GND			±100	mA
		DCT package		220	
$\theta_{JA}$	Package thermal impedance (4)	DCU package		227	
		YZP package		102	
T <sub>stg</sub>	Storage temperature range		<del>-</del> 65	150	°C

<sup>(1)</sup> 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.

<sup>(2)</sup> All voltages are with respect to ground unless otherwise specified.

 <sup>(3)</sup> The input negative-voltage and output voltage ratings may be exceeded if the input and output current ratings are observed.
 (4) The package thermal impedance is calculated in accordance with JESD 51-7.



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# **Recommended Operating Conditions**(1)

			MIN	MAX	UNIT
$V_{CC}$	Supply voltage		0.8	2.7	V
		V <sub>CC</sub> = 0.8 V	V <sub>CC</sub>		
$V_{IH}$	High-level input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$	$0.65 \times V_{CC}$		V
	igh-level input voltage  ow-level input voltage  O port voltage  ontrol input voltage  put transition rise or fall rate	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.7		
		$V_{CC} = 0.8 \text{ V}$		0	
$V_{IL}$	High-level input voltage  Low-level input voltage  I/O port voltage  Control input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$		$0.35 \times V_{CC}$	V
		$V_{CC}$ = 2.3 V to 2.7 V		0.7	
$V_{I/O}$	I/O port voltage		0	$V_{CC}$	٧
$V_{I}$	Control input voltage		0	3.6	V
		$V_{CC} = 0.8 \text{ V to } 1.65 \text{ V}^{(2)}$		20	
Δt/Δν	Input transition rise or fall rate	$V_{CC} = 1.65 \text{ V to } 2.3 \text{ V}^{(3)}$		20	ns/V
		$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}^{(3)}$		20	
T <sub>A</sub>	Operating free-air temperature		-40	85	°C

All unused inputs of the device must be held at V<sub>CC</sub> or GND to ensure proper device operation. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.
 The data was taken at C<sub>L</sub> = 15 pF, R<sub>L</sub> = 2 kΩ (see Figure 1).
 The data was taken at C<sub>L</sub> = 30 pF, R<sub>L</sub> = 500 Ω (see Figure 1).

#### **Electrical Characteristics**

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

	PARAMETER	TEST CONDITION	NS	V <sub>cc</sub>	MIN TYP(1)	MAX	UNIT
		$V_I = V_{CC}$ or GND,	I <sub>S</sub> = 4 mA	1.1 V	17	40	
r <sub>on</sub>	On-state switch resistance	$V_C = V_{IH}$	IS = 4 IIIA	1.65 V	7	20	Ω
		(see Figure 1 and Figure 2)	$I_S = 8 \text{ mA}$	2.3 V	4	15	
		$V_I = V_{CC}$ to GND,	1 - 4 m A	1.1 V	131	180	
r <sub>on(p)</sub>	Peak on resistance	$V_C = V_{IH}$	$I_S = 4 \text{ mA}$	1.65 V	32	80	Ω
		(see Figure 1 and Figure 2)	$I_S = 8 \text{ mA}$	2.3 V	15	20	
	Difference of on-state resistance between switches	$V_{I} = V_{CC}$ to GND,	1 4 m 1	1.1 V		3	
$\Delta r_{on}$		$V_C = V_{IH}$	$I_S = 4 \text{ mA}$	1.65 V		1	Ω
		(see Figure 1 and Figure 2)	$I_S = 8 \text{ mA}$	2.3 V		1	
		$V_I = V_{CC}$ and $V_O = GND$ , or				±1	μА
I <sub>S(off)</sub>	Off-state switch leakage current	$V_I = GND$ and $V_O = V_{CC}$ , $V_C = V_{IL}$ (see Figure 3)		2.7 V		±0.1 <sup>(2)</sup>	
	On state awitch lookage current	$V_I = V_{CC}$ or GND, $V_C = V_{IH}$ , $V_C$	O = Open	2.7 V		±1	^
I <sub>S(on)</sub>	On-state switch leakage current	(see Figure 4)		2.7 V		±0.1 <sup>(2)</sup>	μΑ
I	Control input current	$V_I = V_{CC}$ or GND		0 to 2.7 V		±5	μΑ
I <sub>CC</sub>	Supply current	$V_I = V_{CC}$ or GND,	I <sub>O</sub> = 0	0.8 V to 2.7 V		10	μΑ
C <sub>ic</sub>	Control input capacitance			2.5 V	2.5		pF
C <sub>io(off)</sub>	Switch input/output capacitance			2.5 V	3		pF
C <sub>io(on)</sub>	Switch input/output capacitance			2.5 V	7		pF

<sup>(1)</sup>  $t_a$  = 25°C (2) The data was taken at C<sub>L</sub> = 15 pF, R<sub>L</sub> = 2 k $\Omega$  (see Figure 1).



#### **Switching Characteristics**

over recommended operating free-air temperature range,  $C_L = 15 \text{ pF}$  (unless otherwise noted) (see Figure 5)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 0.8 V	V <sub>CC</sub> = ± 0.7		V <sub>CC</sub> = 0.1			c = 1.8 0.15 \		V <sub>CC</sub> = 2 ± 0.2		UNIT
		(0011-01)	TYP	MIN	MAX	MIN	MAX	MIN	TYP	MAX	MIN	MAX	
t <sub>pd</sub> <sup>(1)</sup>	A or B	B or A	1		0.6		0.5			0.5		0.4	ns
t <sub>en</sub>	С	A or B	5	0.5	3	0.5	2.1	0.5	0.9	1.6	0.5	1.4	ns
t <sub>dis</sub>	С	A or B	5.3	0.5	4	0.5	3	0.5	2.6	3.3	0.5	2.7	ns

<sup>(1)</sup> The propagation delay is the calculated RC time constant of the typical on-state resistance of the switch and the specified load capacitance when driven by an ideal voltage source (zero output impedance).

#### **Switching Characteristics**

over recommended operating free-air temperature range,  $C_L = 30 \text{ pF}$  (unless otherwise noted) (see Figure 5)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V <sub>CC</sub> = 1.8 V ± 0.15 V			V <sub>CC</sub> = 2.5 V ± 0.2 V		UNIT	
	(INPUT)	(001701)	MIN	TYP	MAX	MIN	MAX		
t <sub>pd</sub> <sup>(1)</sup>	A or B	B or A			0.7		0.7	ns	
t <sub>en</sub>	С	A or B	0.5	1.6	2.7	0.5	2.3	ns	
t <sub>dis</sub>	С	A or B	0.5	2.7	3.4	0.5	2	ns	

<sup>(1)</sup> The propagation delay is the calculated RC time constant of the typical on-state resistance of the switch and the specified load capacitance when driven by an ideal voltage source (zero output impedance).

#### **Analog Switch Characteristics**

 $T_A = 25^{\circ}C$ 

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	V <sub>cc</sub>	TYP	UNIT
				0.8 V	101	
			$C_L = 50 \text{ pF}, R_L = 600 \Omega,$	1.1 V	150	
Frequency response (switch ON)			f <sub>in</sub> = sine wave	1.4 V	175	
			(see Figure 6)	1.65 V	250	
				2.3 V	400	
	A or B	B or A		0.8 V	450	MHz
			$C_L = 5 \text{ pF}, R_L = 50 \Omega,$	1.1 V	>500	
			f <sub>in</sub> = sine wave	1.4 V	>500	
			(see Figure 6)	1.65 V	>500	
				2.3 V	>500	
				0.8 V	-60	dB
			$C_L = 50 \text{ pF}, R_L = 600 \Omega,$	1.1 V	-60	
			f <sub>in</sub> = 1 MHz (sine wave)	1.4 V	-60	
			(see Figure 7)	1.65 V	-60	
Crosstalk	A == D	D A		2.3 V	-60	
(between switches)	A or B	B or A		0.8 V	-65	
			$C_L = 5 \text{ pF}, R_L = 50 \Omega,$	1.1 V	-65	
			f <sub>in</sub> = 1 MHz (sine wave)	1.4 V	-65	
			(see Figure 7)	1.65 V	-65	
				2.3 V	-65	

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# **Analog Switch Characteristics (continued)**

 $T_A = 25^{\circ}C$ 

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	V <sub>cc</sub>	TYP	UNIT
				0.8 V	9	
Crosstalk			$C_L = 50 \text{ pF}, R_L = 600 \Omega,$	1.1 V	14	
(control input to signal	С	A or B	f <sub>in</sub> = 1 MHz (square wave)	1.4 V	15	mV
output)			(see Figure 8)	1.65 V	16	
				2.3 V	20	
				0.8 V	<del>-</del> 50	
Feedthrough attenuation (switch OFF)		B or A	$C_L = 50 \text{ pF}, R_L = 600 \Omega,$	1.1 V	<b>–</b> 50	
			f <sub>in</sub> = 1 MHz (sine wave)	1.4 V	-50	
			(see Figure 9)	1.65 V	-50	dB
	A or B			2.3 V	-50	
				0.8 V	-60	
			$C_L = 5 \text{ pF}, R_L = 50 \Omega,$	1.1 V	-60	
			f <sub>in</sub> = 1 MHz (sine wave)	1.4 V	-60	
			(see Figure 9)	1.65 V	-60	
				2.3 V	-60	
				0.8 V	7	
			$C_L = 50 \text{ pF}, R_L = 10 \text{ k}\Omega,$	1.1 V	0.256	
	A or B	B or A	f <sub>in</sub> = 1 kHz (sine wave)	1.4 V	0.04	
			(see Figure 10)	1.65 V	0.03	
O's a sure of distantian				2.3 V	0.01	0/
Sine-wave distortion				0.8 V	3.7	%
			$C_L = 50 \text{ pF}, R_L = 10 \text{ k}\Omega,$	1.1 V	0.4	
	A or B	B or A	f <sub>in</sub> = 10 kHz (sine wave)	1.4 V	0.04	
			(see Figure 10)	1.65 V	0.02	
				2.3 V	0.02	

# **Operating Characteristics**

T<sub>A</sub> = 25°C

	PARAMETER	TEST CONDITIONS	V <sub>CC</sub> = 0.8 V TYP	V <sub>CC</sub> = 1.2 V TYP	V <sub>CC</sub> = 1.5 V TYP	V <sub>CC</sub> = 1.8 V TYP	V <sub>CC</sub> = 2.5 V TYP	UNIT
C <sub>pd</sub>	Power dissipation capacitance	f = 10 MHz	2.5	2.5	2.5	2.5	2.5	pF



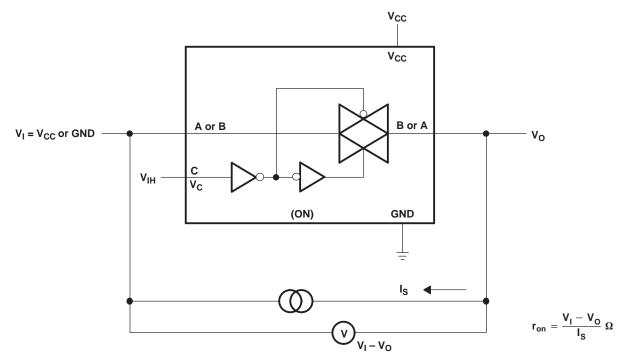


Figure 1. On-State Resistance Test Circuit

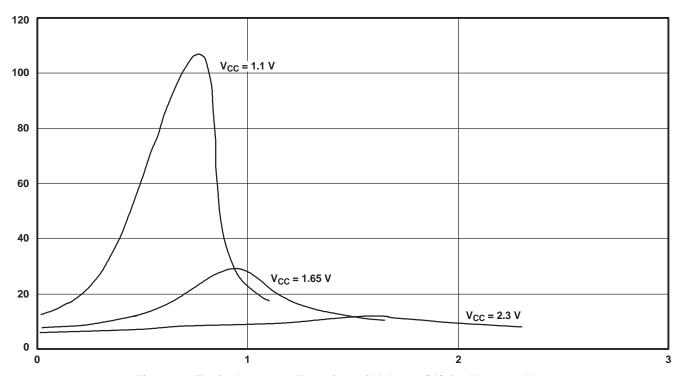


Figure 2. Typical  $r_{on}$  as a Function of Voltage (V<sub>I</sub>) for  $V_I = 0$  to  $V_{CC}$ 



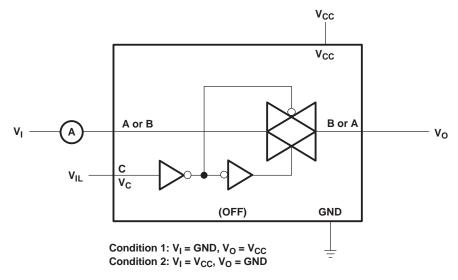


Figure 3. Off-State Switch Leakage-Current Test Circuit

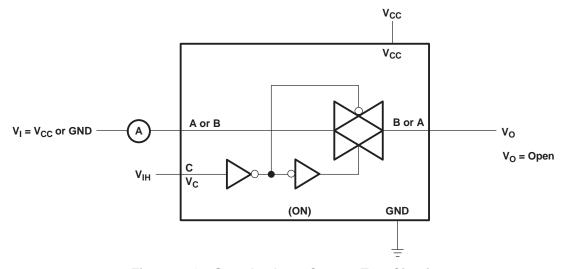
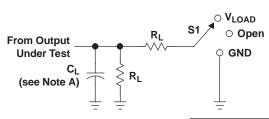


Figure 4. On-State Leakage-Current Test Circuit

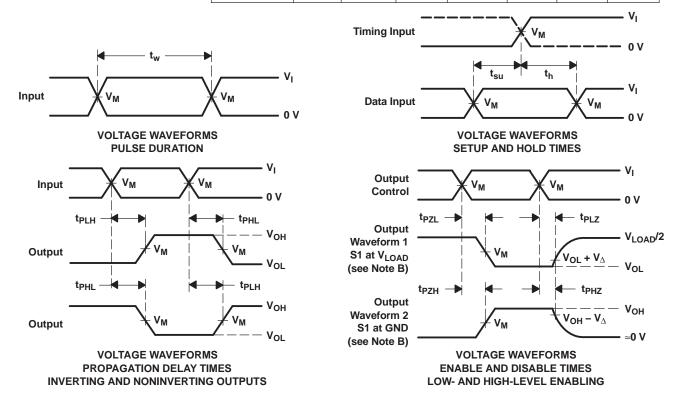




TEST	S1
t <sub>PLH</sub> /t <sub>PHL</sub>	Open
t <sub>PLZ</sub> /t <sub>PZL</sub>	V <sub>LOAD</sub>
t <sub>PHZ</sub> /t <sub>PZH</sub>	GND

LOAD CIRCUIT

INPUTS		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	.,			.,	
VI	t <sub>r</sub> /t <sub>f</sub>	V <sub>M</sub>	VLOAD	CL	ΚL	$\mathbf{v}_{\Delta}$	
V <sub>CC</sub>	≤ <b>2</b> ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	15 pF	<b>2 k</b> Ω	0.1 V	
V <sub>CC</sub>	≤ <b>2</b> ns	V <sub>CC</sub> /2	$2 \times V_{CC}$	15 pF	<b>2 k</b> Ω	0.1 V	
V <sub>CC</sub>	≤ <b>2</b> ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	15 pF	<b>2 k</b> Ω	0.1 V	
V <sub>CC</sub>	≤ <b>2</b> ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	15 pF	<b>2 k</b> Ω	0.15 V	
V <sub>CC</sub>	≤ <b>2</b> ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	15 pF	<b>2 k</b> Ω	0.15 V	
V <sub>CC</sub>	≤ <b>2</b> ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	30 pF	<b>1 k</b> Ω	0.15 V	
V <sub>CC</sub>	≤ <b>2</b> ns	V <sub>CC</sub> /2	2×V <sub>CC</sub>	30 pF	<b>500</b> Ω	0.15 V	
	V <sub>I</sub> V <sub>CC</sub>	$\begin{array}{c cc} V_I & t_r/t_f \\ V_{CC} & \leq 2 \text{ ns} \\ \end{array}$	$\begin{array}{c ccccc} V_I & t_r/t_f & V_M \\ \hline V_{CC} & \leq 2 \text{ ns} & V_{CC}/2 \\ V_{CC} & \leq 2 \text{ ns} & V_{CC}/2 \\ V_{CC} & \leq 2 \text{ ns} & V_{CC}/2 \\ V_{CC} & \leq 2 \text{ ns} & V_{CC}/2 \\ V_{CC} & \leq 2 \text{ ns} & V_{CC}/2 \\ V_{CC} & \leq 2 \text{ ns} & V_{CC}/2 \\ V_{CC} & \leq 2 \text{ ns} & V_{CC}/2 \\ \hline \end{array}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$



- NOTES: A.  $C_L$  includes probe and jig capacitance.
  - B. 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.
  - C. All input pulses are supplied by generators having the following characteristics: PRR  $\leq$  10 MHz,  $Z_O$  = 50  $\Omega$ , slew rate  $\geq$  1 V/ns.
  - D. The outputs are measured one at a time, with one transition per measurement.
  - E.  $t_{PLZ}$  and  $t_{PHZ}$  are the same as  $t_{dis}$ .
  - F. t<sub>PZL</sub> and t<sub>PZH</sub> are the same as t<sub>en</sub>.
  - G.  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{pd}$ .
  - H. All parameters and waveforms are not applicable to all devices.

Figure 5. Load Circuit and Voltage Waveforms



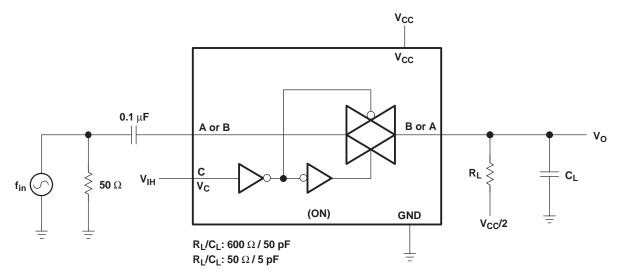


Figure 6. Frequency Response (Switch ON)

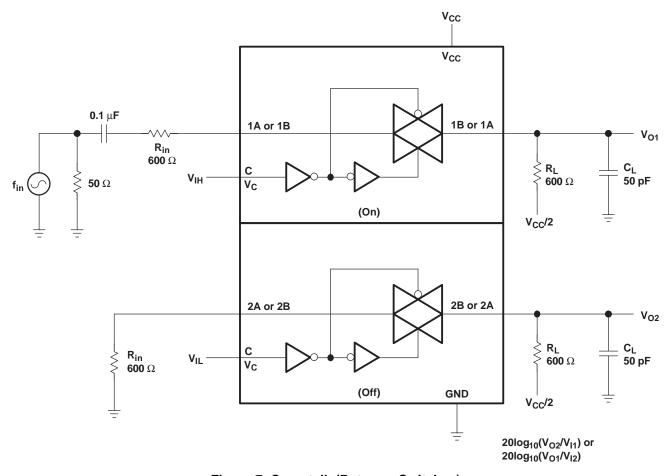


Figure 7. Crosstalk (Between Switches)



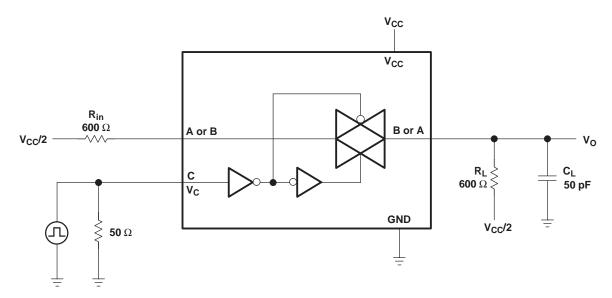


Figure 8. Crosstalk (Control Input - Switch Output)

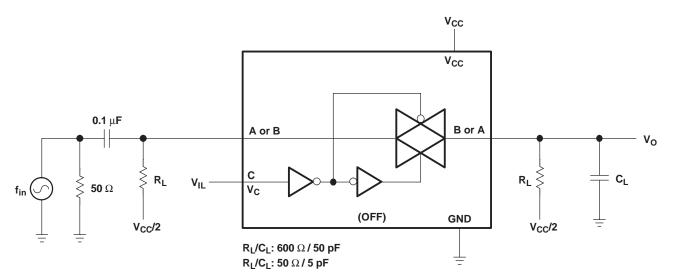


Figure 9. Feedthrough, Switch Off



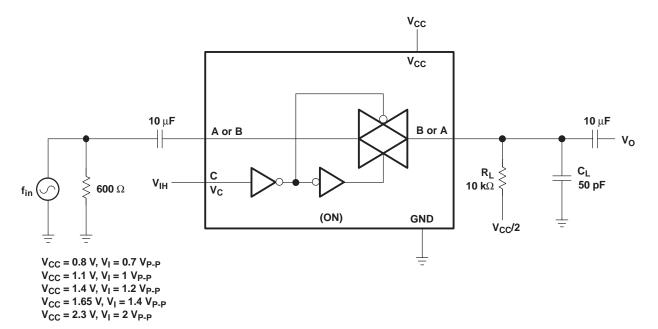


Figure 10. Sine-Wave Distortion





17-Aug-2015

#### PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish (6)	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
SN74AUC2G66DCTR	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	U66 Z	Samples
SN74AUC2G66DCUR	ACTIVE	VSSOP	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU   CU SN	Level-1-260C-UNLIM	-40 to 85	(66 ~ U66Q ~ U66R) (UR ~ UZ)	Samples
SN74AUC2G66DCURE4	ACTIVE	VSSOP	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	U66R	Samples
SN74AUC2G66DCURG4	ACTIVE	VSSOP	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 85	U66R	Samples
SN74AUC2G66YZPR	ACTIVE	DSBGA	YZP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	(U67 ~ U6N)	Samples

(1) 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.

(2) Eco Plan - The planned eco-friendly classification: Pb-Free (RoHS), Pb-Free (RoHS Exempt), or Green (RoHS & no Sb/Br) - please check http://www.ti.com/productcontent for the latest availability information and additional product content details.

TBD: The Pb-Free/Green conversion plan has not been defined.

**Pb-Free** (RoHS): TI's terms "Lead-Free" or "Pb-Free" mean semiconductor products that are compatible with the current RoHS requirements for all 6 substances, including the requirement that lead not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, TI Pb-Free products are suitable for use in specified lead-free processes. **Pb-Free** (RoHS Exempt): This component has a RoHS exemption for either 1) lead-based flip-chip solder bumps used between the die and package, or 2) lead-based die adhesive used between the die and leadframe. The component is otherwise considered Pb-Free (RoHS compatible) as defined above.

Green (RoHS & no Sb/Br): TI defines "Green" to mean Pb-Free (RoHS compatible), and free of Bromine (Br) and Antimony (Sb) based flame retardants (Br or Sb do not exceed 0.1% by weight in homogeneous material)

<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.



### **PACKAGE OPTION ADDENDUM**

17-Aug-2015

(6) Lead/Ball Finish - Orderable Devices may have multiple material finish options. Finish options are separated by a vertical ruled line. Lead/Ball Finish values may wrap to two lines if the finish value exceeds the maximum column width.

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# PACKAGE MATERIALS INFORMATION

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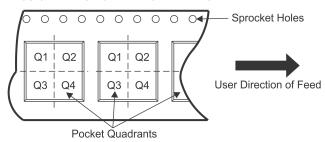
#### TAPE AND REEL INFORMATION





	Dimension designed to accommodate the component width
B0	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

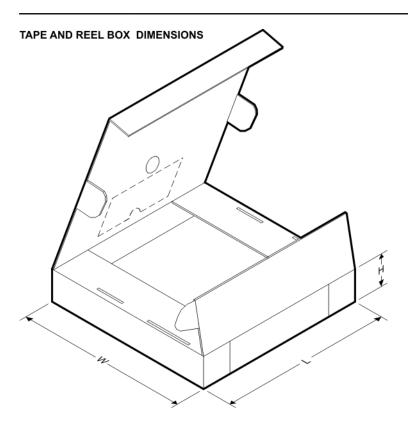
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



#### \*All dimensions are nominal

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
SN74AUC2G66DCTR	SM8	DCT	8	3000	180.0	13.0	3.35	4.5	1.55	4.0	12.0	Q3
SN74AUC2G66DCUR	VSSOP	DCU	8	3000	178.0	9.5	2.25	3.35	1.05	4.0	8.0	Q3
SN74AUC2G66DCUR	VSSOP	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74AUC2G66DCUR	VSSOP	DCU	8	3000	180.0	9.0	2.05	3.3	1.0	4.0	8.0	Q3
SN74AUC2G66DCURG4	VSSOP	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3

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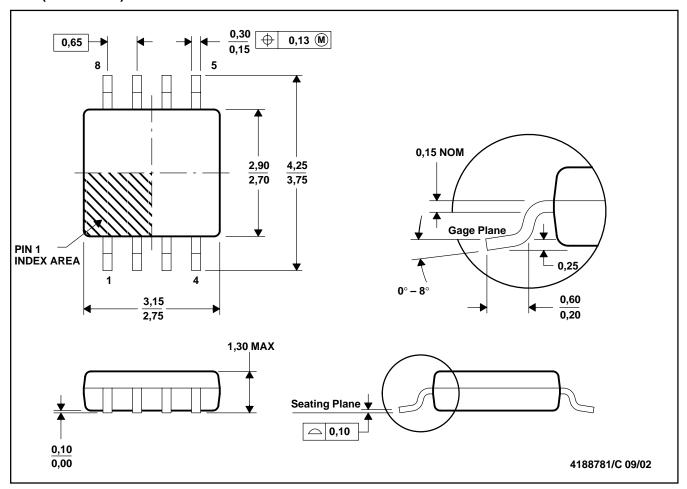


\*All dimensions are nominal

7 il difficiolo de nomina									
Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)		
SN74AUC2G66DCTR	SM8	DCT	8	3000	182.0	182.0	20.0		
SN74AUC2G66DCUR	VSSOP	DCU	8	3000	202.0	201.0	28.0		
SN74AUC2G66DCUR	VSSOP	DCU	8	3000	202.0	201.0	28.0		
SN74AUC2G66DCUR	VSSOP	DCU	8	3000	182.0	182.0	20.0		
SN74AUC2G66DCURG4	VSSOP	DCU	8	3000	202.0	201.0	28.0		

#### DCT (R-PDSO-G8)

#### PLASTIC SMALL-OUTLINE PACKAGE

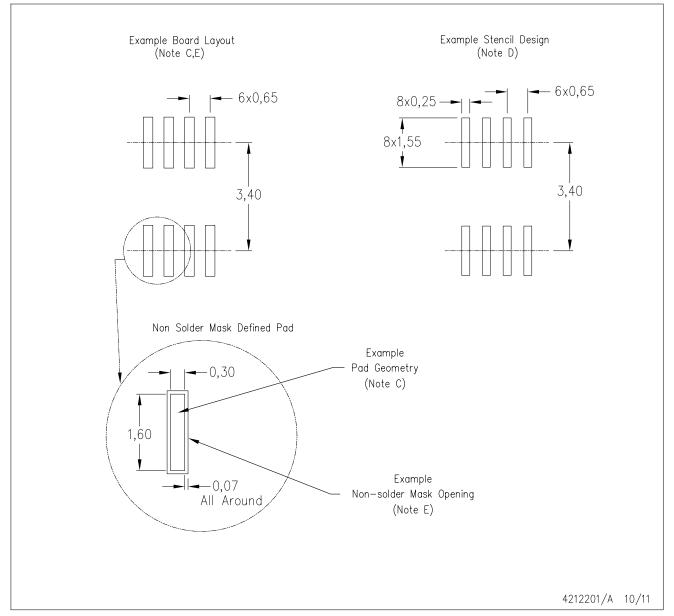


NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Body dimensions do not include mold flash or protrusion
- D. Falls within JEDEC MO-187 variation DA.

# DCT (R-PDSO-G8)

#### PLASTIC SMALL OUTLINE



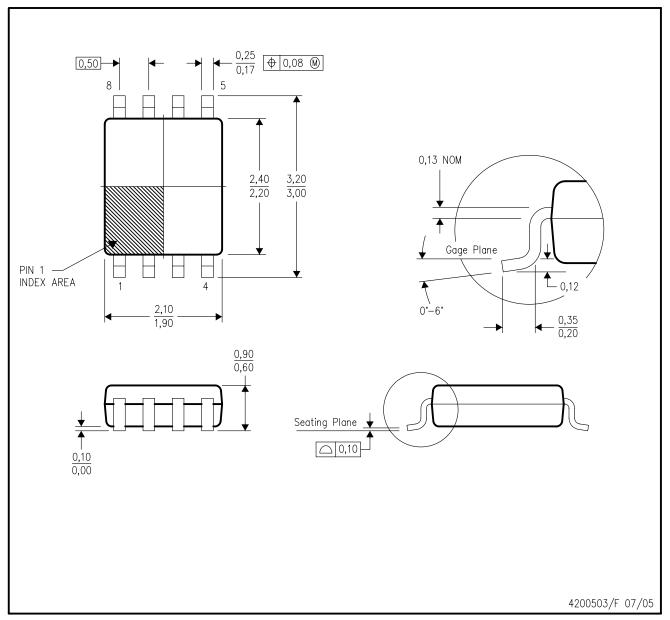
NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



# DCU (R-PDSO-G8)

# PLASTIC SMALL-OUTLINE PACKAGE (DIE DOWN)



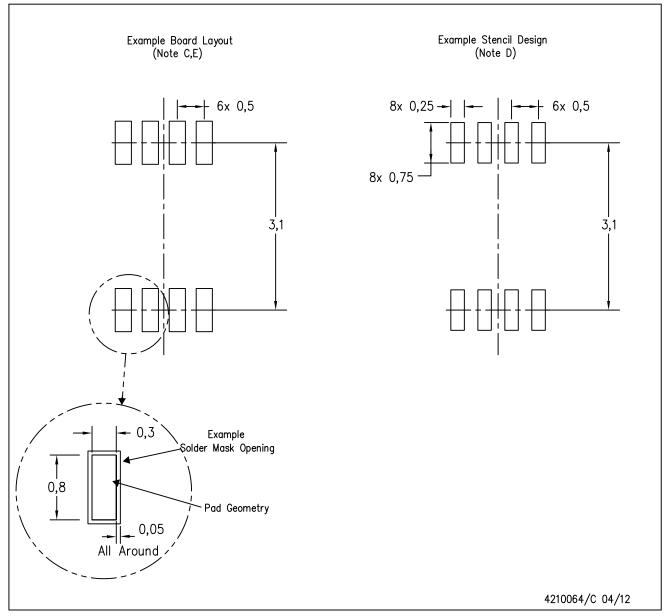
NOTES:

- : 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. Mold flash and protrusion shall not exceed 0.15 per side.
  - D. Falls within JEDEC MO-187 variation CA.



DCU (S-PDSO-G8)

PLASTIC SMALL OUTLINE PACKAGE (DIE DOWN)



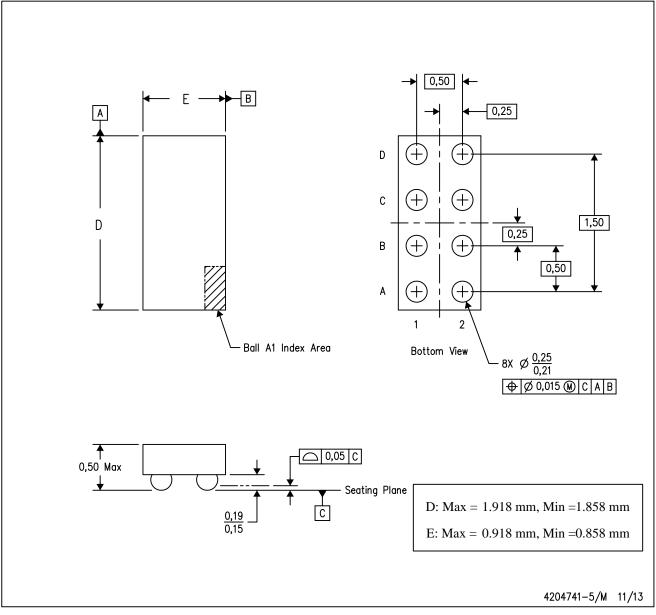
NOTES: A. All linear dimensions are in millimeters.

- B. This drawing is subject to change without notice.
- C. Publication IPC-7351 is recommended for alternate designs.
- D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
- E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.



YZP (R-XBGA-N8)

DIE-SIZE BALL GRID ARRAY



NOTES: A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
- C. NanoFree™ package configuration.

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