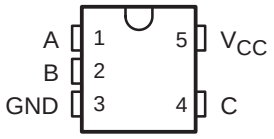
- **Qualified for Automotive Applications**
- **1.65-V to 5.5-V V_{CC} Operation**
- **Inputs Accept Voltages to 5.5 V**
- **High On-Off Output Voltage Ratio**
- **High Degree of Linearity**
- **High Speed, Typically 0.5 ns (V_{CC} = 3 V, C_L = 50 pF)**
- **Low On-State Resistance, Typically ≈5.5 Ω (V_{CC} = 4.5 V)**
- **Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II**

DBV or DCK PACKAGE
(TOP VIEW)



description/ordering information

This single analog switch is designed for 1.65-V to 5.5-V V_{CC} operation.

The SN74LVC1G66 can handle both analog and digital signals. The device permits signals with amplitudes of up to 5.5 V (peak) to be transmitted in either direction.

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_A	PACKAGE‡		ORDERABLE PART NUMBER	TOP-SIDE MARKING§
−40°C to 125°C	SOT (SOT-23) − DBV	Reel of 3000	1P1G66QDBVRQ1	C66_
	SOT (SOT-70) − DCK	Reel of 3000	1P1G66QDCKRQ1	C6_

† 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 http://www.ti.com.
‡ Package drawings, thermal data, and symbolization are available at http://www.ti.com/packaging.
§ The actual top-side marking has one additional character that designates the wafer fab/assembly site.

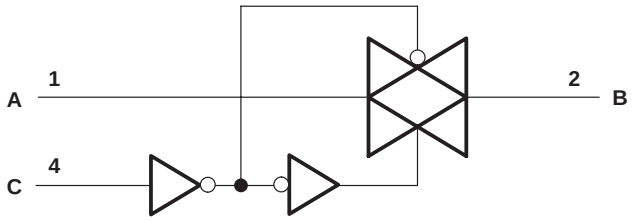
FUNCTION TABLE

CONTROL INPUT (C)	SWITCH
L	OFF
H	ON

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.

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.

logic diagram (positive logic)



absolute maximum ratings over operating free-air temperature range (unless otherwise noted)†

Supply voltage range, V_{CC} (see Note 1) . . . . . −0.5 V to 6.5 V
Input voltage range, V_I (see Notes 1 and 2) . . . . . −0.5 V to 6.5 V
Switch I/O voltage range, $V_{I/O}$ (see Notes 1, 2, and 3) . . . . . −0.5 V to V_{CC} + 0.5 V
Control input clamp current, I_{IK} (V_I < 0) . . . . . −50 mA
I/O port diode current, I_{IOK} ($V_{I/O}$ < 0) . . . . . −50 mA
On-state switch current, I_T ($V_{I/O}$ = 0 to V_{CC}) . . . . . ±50 mA
Continuous current through V_{CC} or GND . . . . . ±100 mA
Package thermal impedance, θ_{JA} (see Note 2): DBV package . . . . . 206°C/W
DCK package . . . . . 252°C/W
ESD rating, HBM (see Note 5) . . . . . 2 (H2) kV
ESD rating, CDM (see Note 5) . . . . . 1 (C5) kV
ESD rating, MM (see Note 5) . . . . . 200 (M3) V
Storage temperature range, T_{stg} . . . . . −65°C to 150°C

† 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.

NOTES: 1. All voltages are with respect to ground, unless otherwise specified.
2. The input and output negative-voltage ratings may be exceeded if the input and output clamp-current ratings are observed.
3. This value is limited to 5.5 V maximum.
4. The package thermal impedance is calculated in accordance with JESD 51-7.
5. ESD Protection Level per AEC Q100 classification.

recommended operating conditions (see Note 5)

			MIN	MAX	UNIT
V_{CC}	Supply voltage		1.65	5.5	V
$V_{I/O}$	I/O port voltage		0	V_{CC}	V
V_{IH}	High-level input voltage, control input	V_{CC} = 1.65 V to 1.95 V	$V_{CC} \times 0.65$		V
		V_{CC} = 2.3 V to 2.7 V	$V_{CC} \times 0.7$		
		V_{CC} = 3 V to 3.6 V	$V_{CC} \times 0.7$		
		V_{CC} = 4.5 V to 5.5 V	$V_{CC} \times 0.7$		
V_{IL}	Low-level input voltage, control input	V_{CC} = 1.65 V to 1.95 V		$V_{CC} \times 0.35$	V
		V_{CC} = 2.3 V to 2.7 V		$V_{CC} \times 0.3$	
		V_{CC} = 3 V to 3.6 V		$V_{CC} \times 0.3$	
		V_{CC} = 4.5 V to 5.5 V		$V_{CC} \times 0.3$	
V_I	Control input voltage		0	5.5	V
$\Delta t/\Delta v$	Input transition rise/fall time	V_{CC} = 1.65 V to 1.95 V		20	ns/V
		V_{CC} = 2.3 V to 2.7 V		20	
		V_{CC} = 3 V to 3.6 V		10	
		V_{CC} = 4.5 V to 5.5 V		10	
T_A	Operating free-air temperature		−40	125	°C

NOTE 6: 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.

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

PARAMETER		TEST CONDITIONS		V_{CC}	MIN	TYP†	MAX	UNIT
r_{on}	On-state switch resistance	$V_I = V_{CC}$ or GND, $V_C = V_{IH}$ (see Figure 1)	I_S = 4 mA	1.65 V		12	35	Ω
			I_S = 8 mA	2.3 V		9	30	
			I_S = 16 mA	3 V		9	30	
			I_S = 16 mA	4.5 V		5.5	25	
$r_{on(p)}$	Peak on resistance	$V_I = V_{CC}$ to GND, $V_C = V_{IH}$ (see Figure 1)	I_S = 4 mA	1.65 V		74.5	165	Ω
			I_S = 8 mA	2.3 V		20	60	
			I_S = 16 mA	3 V		12.5	35	
			I_S = 16 mA	4.5 V		7.5	25	
$I_{S(off)}$	Off-state switch leakage current	$V_I = V_{CC}$ and V_O = GND or V_I = GND and $V_O = V_{CC}$, $V_C = V_{IL}$ (see Figure 2)		5.5 V			±1	µA
							±0.1†	
$I_{S(on)}$	On-state switch leakage current	$V_I = V_{CC}$ or GND, $V_C = V_{IH}$, V_O = Open (see Figure 3)		5.5 V			±1	µA
							±0.1†	
I_I	Control input current	$V_C = V_{CC}$ or GND		5.5 V			±1	µA
							±0.1†	
I_{CC}	Supply current	$V_C = V_{CC}$ or GND		5.5 V			10	µA
							1†	
ΔI_{CC}	Supply current change	$V_C = V_{CC}$ − 0.6 V		5.5 V			500	µA
C_{ic}	Control input capacitance			5 V		2		pF
$C_{io(off)}$	Switch input/output capacitance			5 V		6		pF
$C_{io(on)}$	Switch input/output capacitance			5 V		13		pF

† T_A = 25°C

switching characteristics over recommended operating free-air temperature range (unless otherwise noted) (see Figure 4)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V_{CC} = 1.8 V ± 0.15 V		V_{CC} = 2.5 V ± 0.2 V		V_{CC} = 3.3 V ± 0.3 V		V_{CC} = 5 V ± 0.5 V		UNIT
			MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
t_{pd}†	A or B	B or A		5.5		3.2		2.8		2.6	ns
t_{en}‡	C	A or B	2.5	14	1.9	9.5	1.8	8	1.5	7.2	ns
t_{dis}§	C	A or B	2.2	12	1.4	8.9	2	8.4	1.4	6.9	ns

† t_{PLH} and t_{PHL} are the same as t_{pd}. 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).
‡ t_{PZL} and t_{PZH} are the same as t_{en}.
§ t_{PLZ} and t_{PHZ} are the same as t_{dis}.

analog switch characteristics, T_A = 25°C

PARAMETER	FROM (INPUT)	TO (OUTPUT)	TEST CONDITIONS	V_{CC}	TYP	UNIT
Frequency response¶ (switch ON)	A or B	B or A	C_L = 50 pF, R_L = 600 Ω, f_{in} = sine wave (see Figure 5)	1.65 V	35	MHz
				2.3 V	120	
				3 V	175	
				4.5 V	195	
			C_L = 5 pF, R_L = 50 Ω, f_{in} = sine wave (see Figure 5)	1.65 V	>300	
				2.3 V	>300	
				3 V	>300	
				4.5 V	>300	
Crosstalk (control input to signal output)	C	A or B	C_L = 50 pF, R_L = 600 Ω, f_{in} = 1 MHz (square wave) (see Figure 6)	1.65 V	35	mV
				2.3 V	50	
				3 V	70	
				4.5 V	100	
Feedthrough attenuation# (switch OFF)	A or B	B or A	C_L = 50 pF, R_L = 600 Ω, f_{in} = 1 MHz (sine wave) (see Figure 7)	1.65 V	−58	dB
				2.3 V	−58	
				3 V	−58	
				4.5 V	−58	
			C_L = 5 pF, R_L = 50 Ω, f_{in} = 1 MHz (sine wave) (see Figure 7)	1.65 V	−42	
				2.3 V	−42	
				3 V	−42	
				4.5 V	−42	
Sine-wave distortion	A or B	B or A	C_L = 50 pF, R_L = 10 kΩ, f_{in} = 1 kHz (sine wave) (see Figure 8)	1.65 V	0.1	%
				2.3 V	0.025	
				3 V	0.015	
				4.5 V	0.01	
			C_L = 50 pF, R_L = 10 kΩ, f_{in} = 10 kHz (sine wave) (see Figure 8)	1.65 V	0.15	
				2.3 V	0.025	
				3 V	0.015	
				4.5 V	0.01	

¶ Adjust f_{in} voltage to obtain 0 dBm at output. Increase f_{in} frequency until dB meter reads −3 dB.
# Adjust f_{in} voltage to obtain 0 dBm at input.

operating characteristics, $T_A = 25°C$

PARAMETER		TEST CONDITIONS	V_{CC} = 1.8 V	V_{CC} = 2.5 V	V_{CC} = 3.3 V	V_{CC} = 5 V	UNIT
			TYP	TYP	TYP	TYP	
C_{pd}	Power dissipation capacitance	f = 10 MHz	8	9	9	11	pF

PARAMETER MEASUREMENT INFORMATION

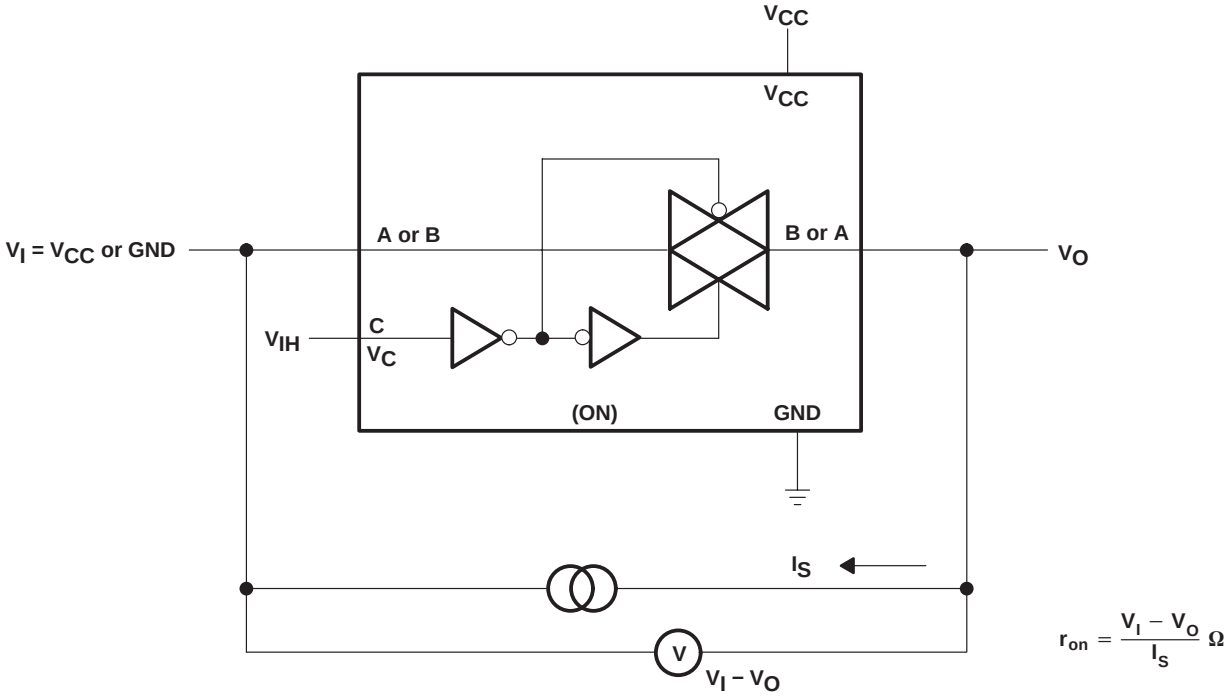


Figure 1. On-State Resistance Test Circuit

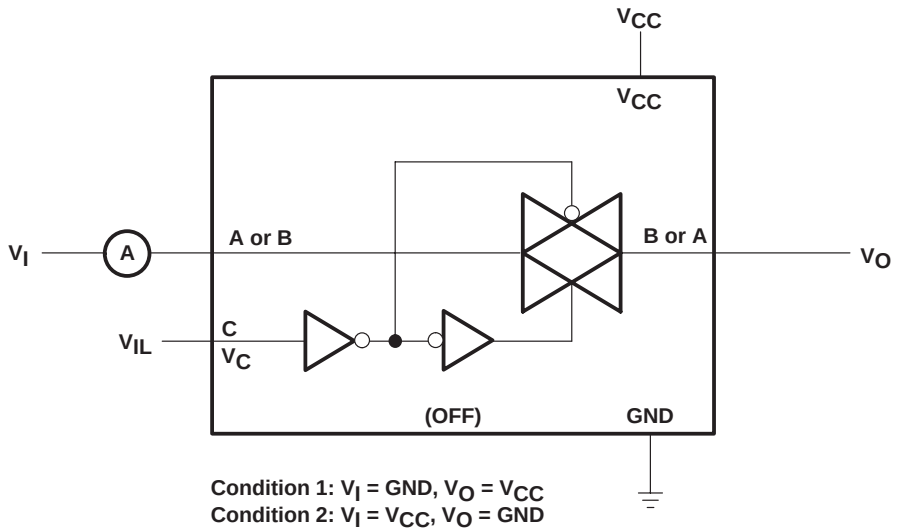


Figure 2. Off-State Switch Leakage-Current Test Circuit

PARAMETER MEASUREMENT INFORMATION

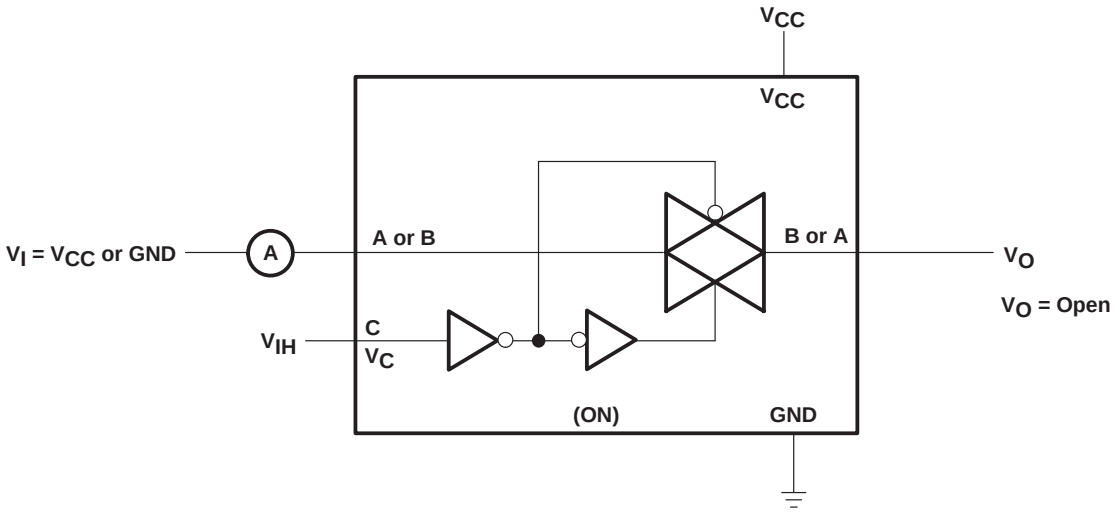
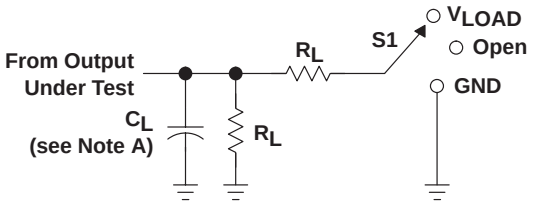


Figure 3. On-State Leakage-Current Test Circuit

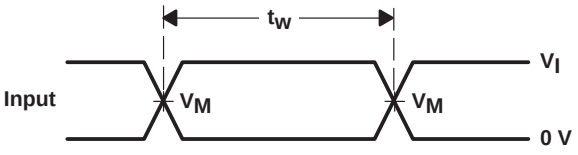
PARAMETER MEASUREMENT INFORMATION



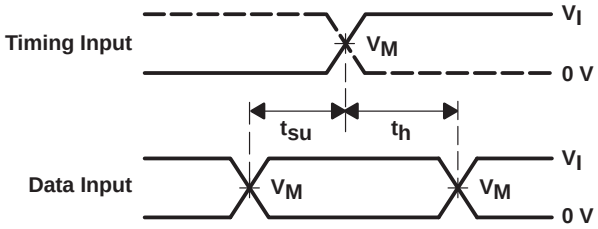
LOAD CIRCUIT

TEST	S1
t_{PLH}/t_{PHL}	Open
t_{PLZ}/t_{PZL}	V_{LOAD}
t_{PHZ}/t_{PZH}	GND

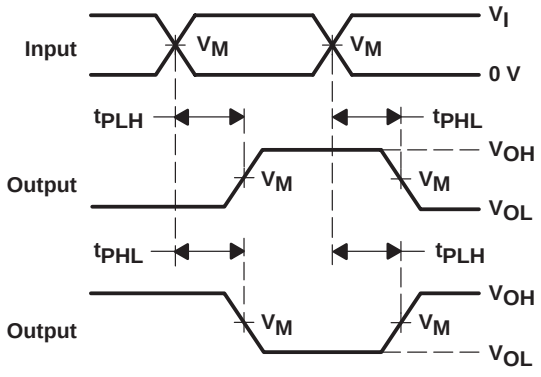
V_{CC}	INPUTS		V_M	V_{LOAD}	C_L	R_L	V_Δ
	V_I	t_r/t_f					
1.8 V ± 0.15 V	V_{CC}	≤2 ns	$V_{CC}/2$	$2 \times V_{CC}$	30 pF	1 kΩ	0.15 V
2.5 V ± 0.2 V	V_{CC}	≤2 ns	$V_{CC}/2$	$2 \times V_{CC}$	30 pF	500 Ω	0.15 V
3.3 V ± 0.3 V	V_{CC}	≤2.5 ns	$V_{CC}/2$	$2 \times V_{CC}$	50 pF	500 Ω	0.3 V
5 V ± 0.5 V	V_{CC}	≤2.5 ns	$V_{CC}/2$	$2 \times V_{CC}$	50 pF	500 Ω	0.3 V



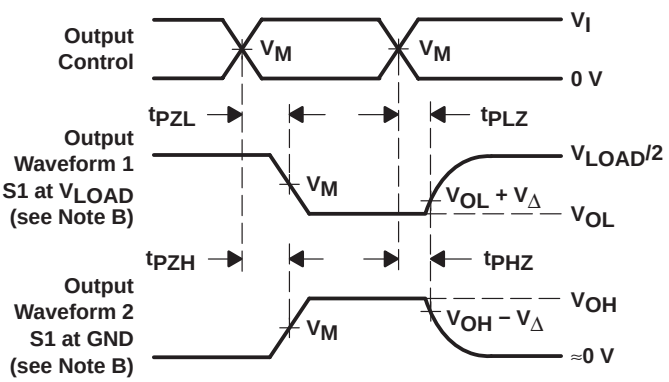
VOLTAGE WAVEFORMS
PULSE DURATION



VOLTAGE WAVEFORMS
SETUP AND HOLD TIMES



VOLTAGE WAVEFORMS
PROPAGATION DELAY TIMES
INVERTING AND NONINVERTING OUTPUTS



VOLTAGE WAVEFORMS
ENABLE AND DISABLE TIMES
LOW- AND HIGH-LEVEL ENABLING

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 ≤ 10 MHz, Z_O = 50 Ω.
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_{PZL} and t_{PZH} are the same as t_{en}.
G. t_{PLH} and t_{PHL} are the same as t_{pd}.
H. All parameters and waveforms are not applicable to all devices.

Figure 4. Load Circuit and Voltage Waveforms

PARAMETER MEASUREMENT INFORMATION

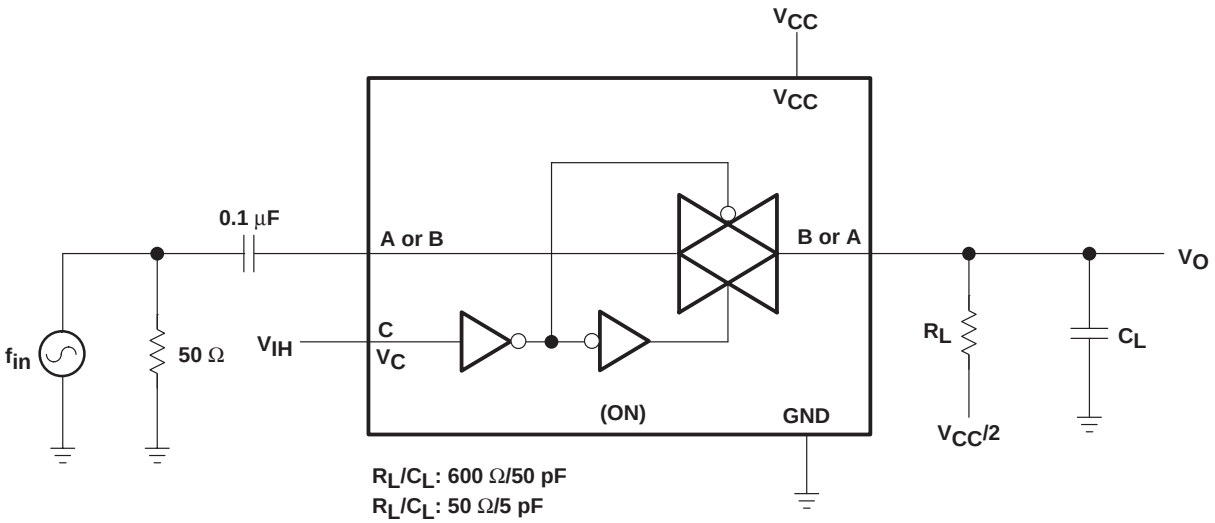


Figure 5. Frequency Response (Switch ON)

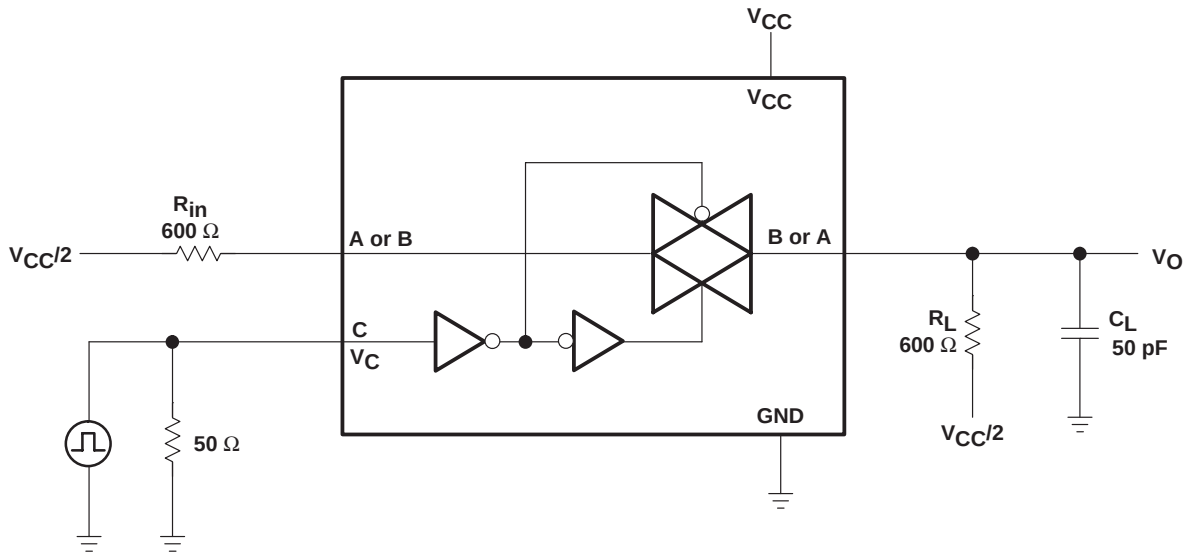


Figure 6. Crosstalk (Control Input − Switch Output)

PARAMETER MEASUREMENT INFORMATION

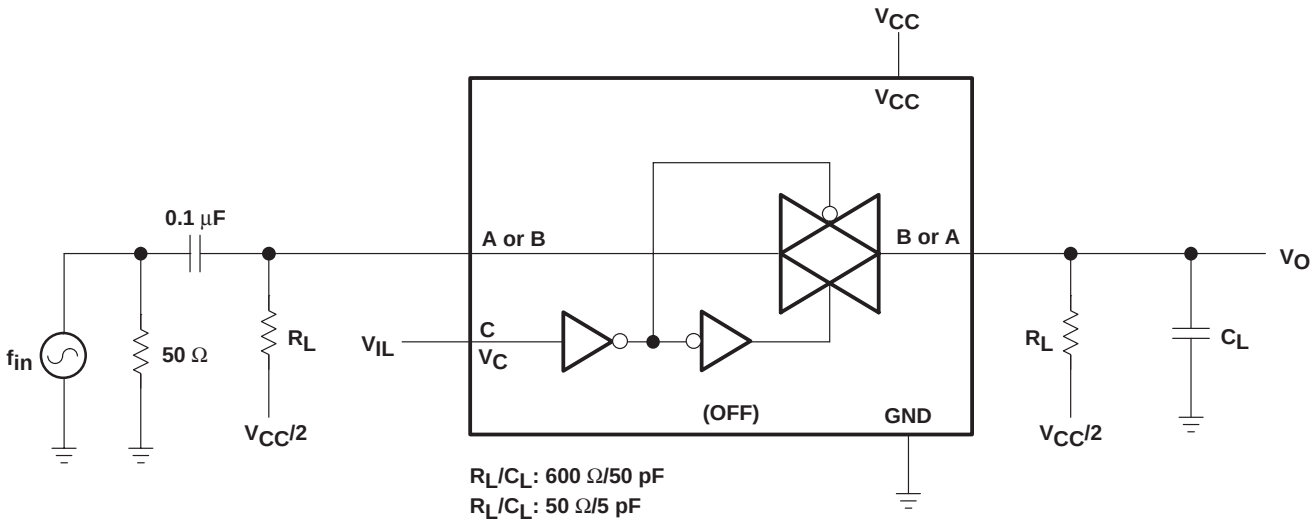


Figure 7. Feed Through (Switch OFF)

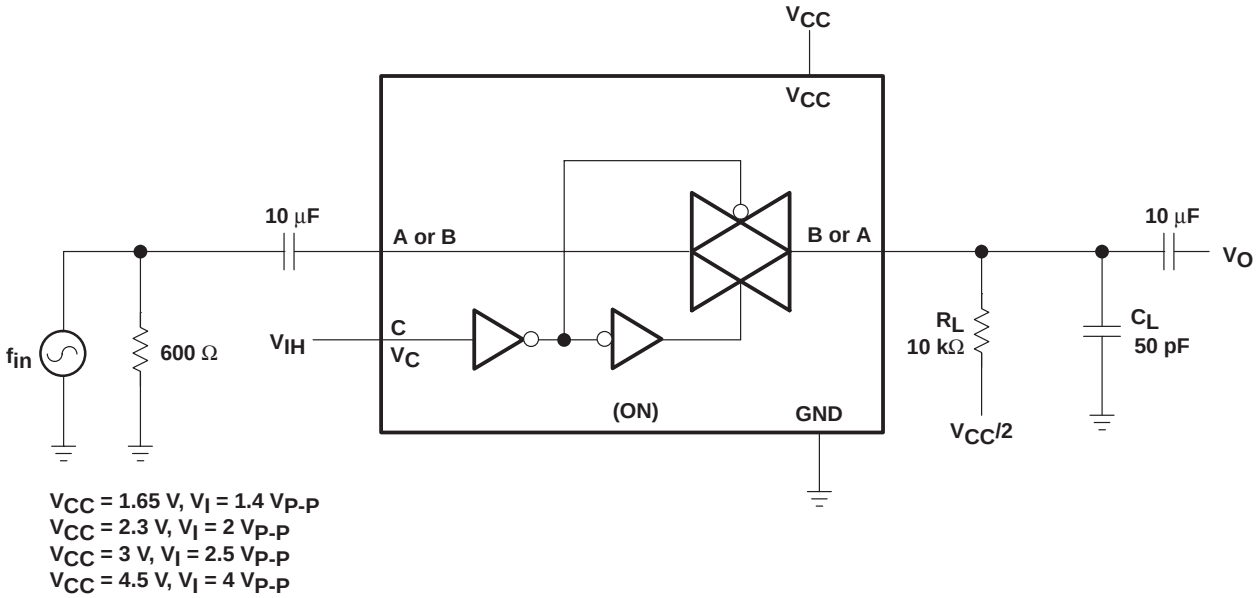


Figure 8. Sine-Wave Distortion

PACKAGING INFORMATION

Orderable Device	Status (1)	Package Type	Package Drawing	Pins	Package Qty	Eco Plan (2)	Lead/Ball Finish	MSL Peak Temp (3)	Op Temp (°C)	Top-Side Markings (4)	Samples
1P1G66QDBVRG4Q1	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C66R	Samples
1P1G66QDBVRQ1	ACTIVE	SOT-23	DBV	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C66R	Samples
SN74LVC1G66QDCKRQ1	ACTIVE	SC70	DCK	5	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM	-40 to 125	C6O	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)

(3) MSL, Peak Temp. -- The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.

(4) Multiple Top-Side Markings will be inside parentheses. Only one Top-Side 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 Top-Side Marking for that device.

OTHER QUALIFIED VERSIONS OF SN74LVC1G66-Q1 :

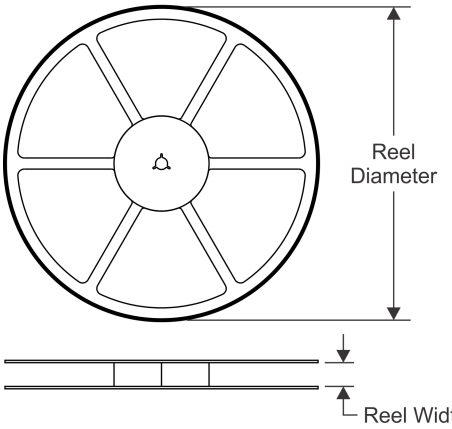
- Catalog: SN74LVC1G66

NOTE: Qualified Version Definitions:

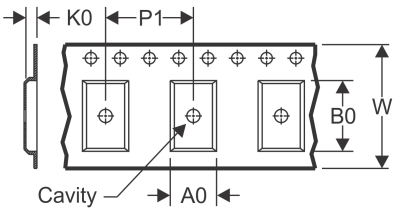
- Catalog - TI's standard catalog product

TAPE AND REEL INFORMATION

REEL DIMENSIONS

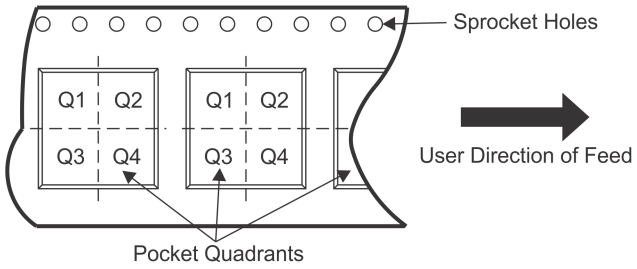


TAPE DIMENSIONS



A0	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

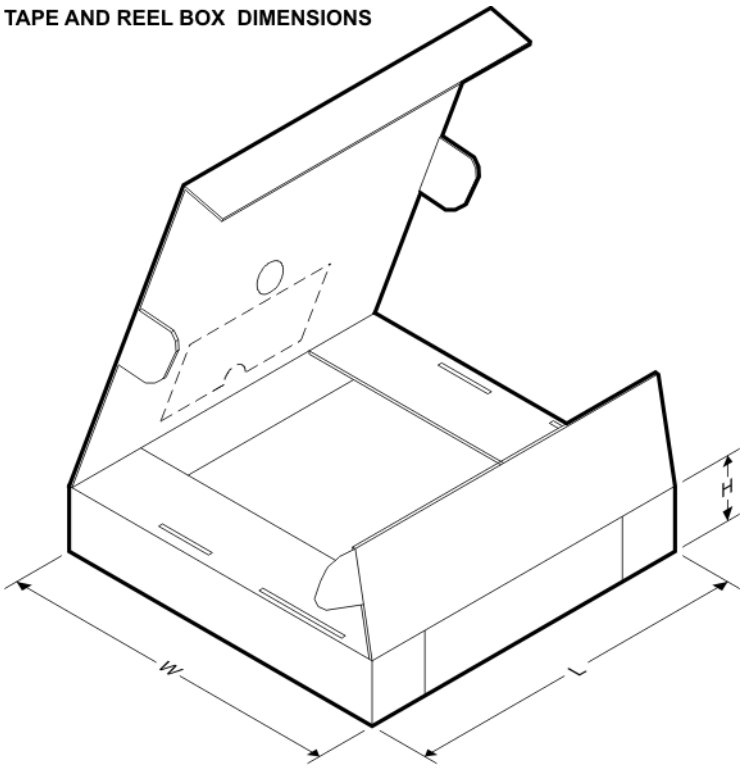
QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

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
1P1G66QDBVRG4Q1	SOT-23	DBV	5	3000	180.0	8.4	3.2	3.2	1.4	4.0	8.0	Q3
1P1G66QDBVRQ1	SOT-23	DBV	5	3000	180.0	8.4	3.2	3.2	1.4	4.0	8.0	Q3
SN74LVC1G66QDCKRQ1	SC70	DCK	5	3000	179.0	8.4	2.2	2.5	1.2	4.0	8.0	Q3

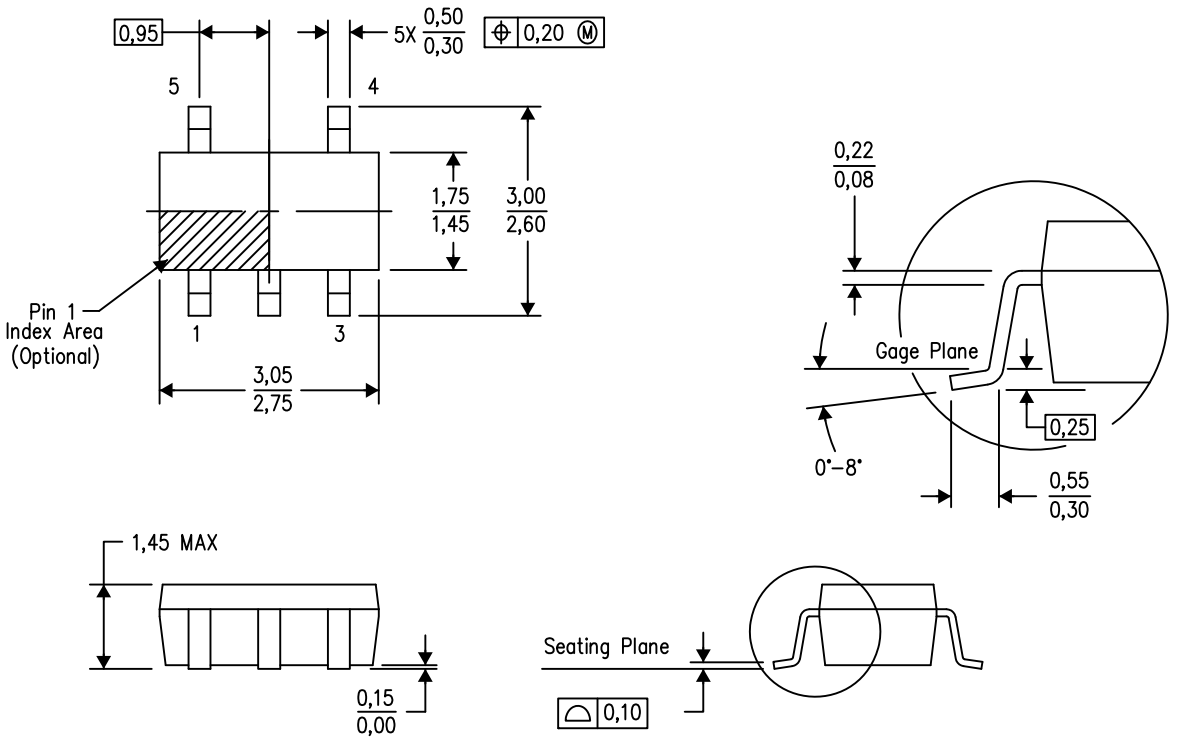
TAPE AND REEL BOX DIMENSIONS



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
1P1G66QDBVRG4Q1	SOT-23	DBV	5	3000	202.0	201.0	28.0
1P1G66QDBVRQ1	SOT-23	DBV	5	3000	202.0	201.0	28.0
SN74LVC1G66QDCKRQ1	SC70	DCK	5	3000	203.0	203.0	35.0

DBV (R–PDSO–G5) PLASTIC SMALL–OUTLINE PACKAGE



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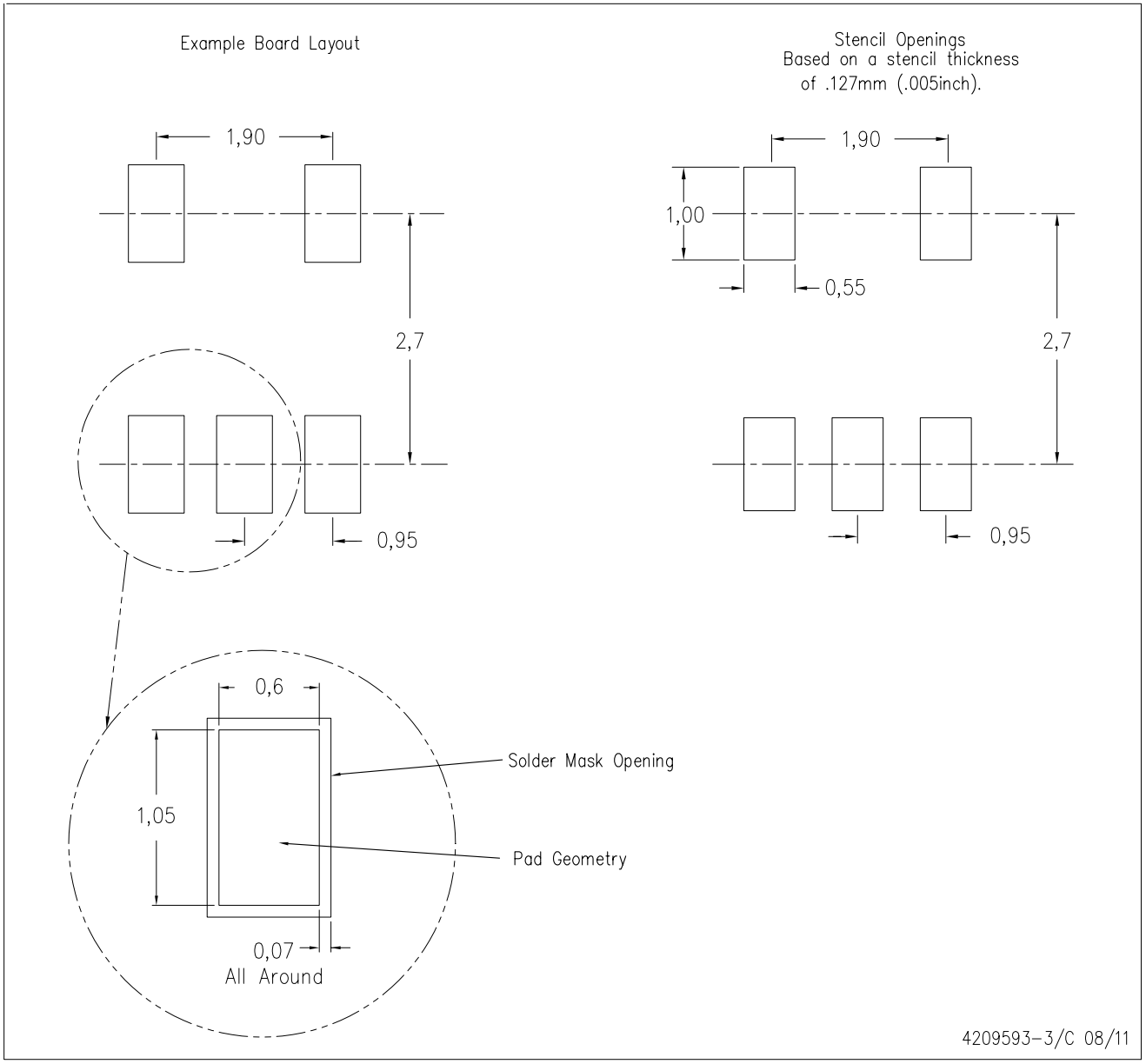
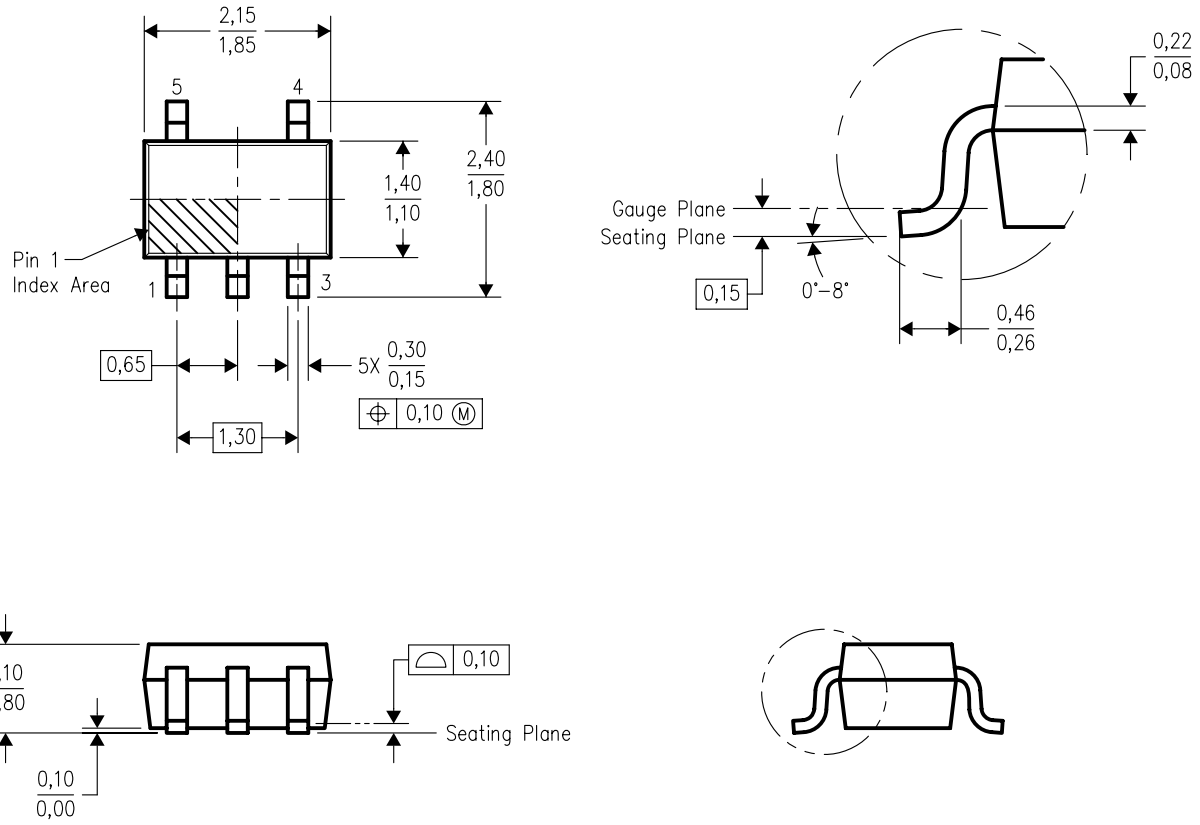
NOTES:
A. All linear dimensions are in millimeters.
B. This drawing is subject to change without notice.
C. Body dimensions do not include mold flash or protrusion. Mold flash and protrusion shall not exceed 0.15 per side.
D. Falls within JEDEC MO–178 Variation AA.

DBV (R–PDSO–G5) PLASTIC SMALL OUTLINE



NOTES:
A. All linear dimensions are in millimeters.
B. This drawing is subject to change without notice.
C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
D. Publication IPC–7351 is recommended for alternate designs.
E. 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. Example stencil design based on a 50% volumetric metal load solder paste. Refer to IPC–7525 for other stencil recommendations.

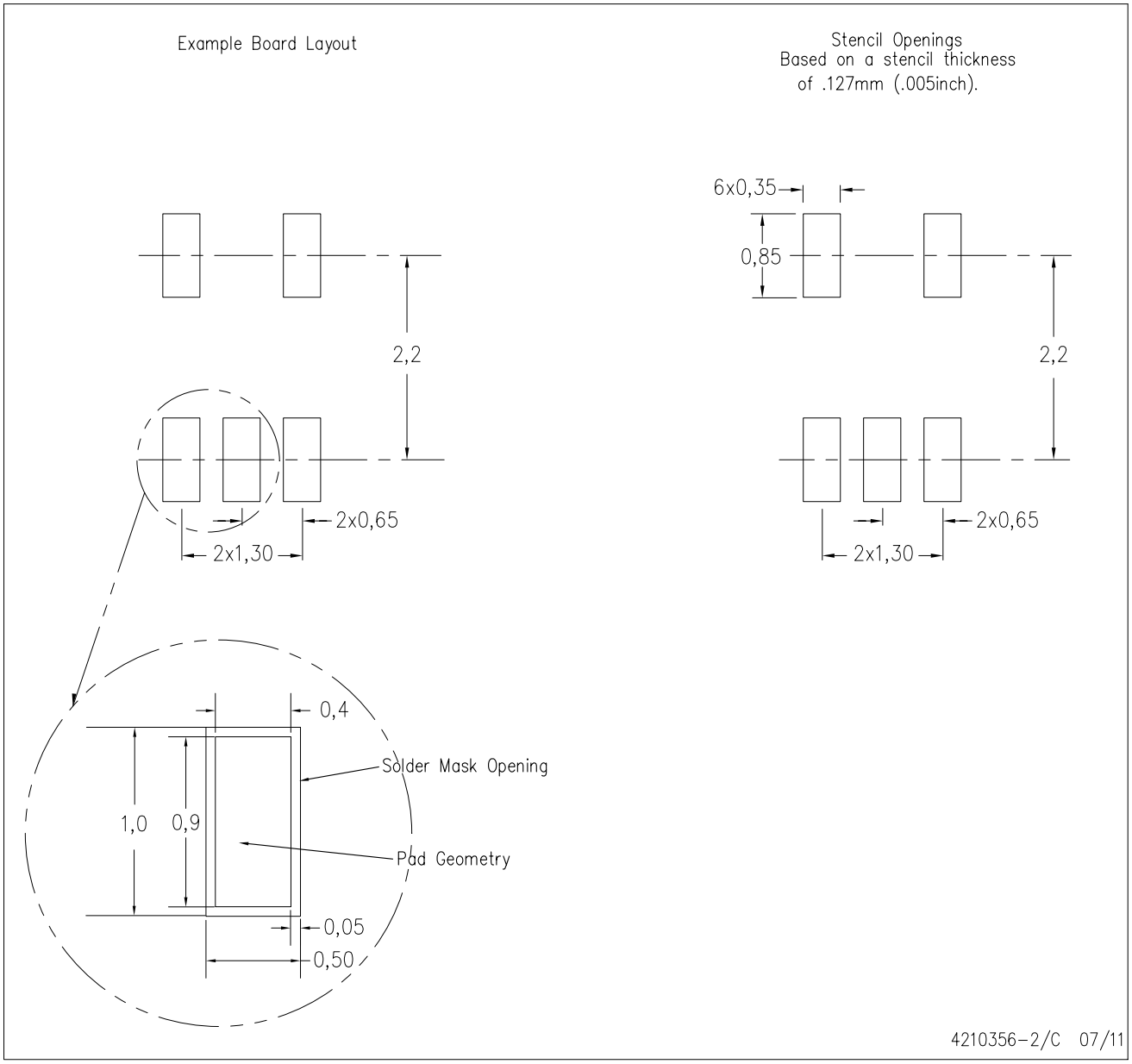
DCK (R–PDSO–G5) PLASTIC SMALL–OUTLINE PACKAGE



4093553–3/G 01/2007

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–203 variation AA.

DCK (R–PDSO–G5) PLASTIC SMALL OUTLINE



NOTES:
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B. This drawing is subject to change without notice.
C. Customers should place a note on the circuit board fabrication drawing not to alter the center solder mask defined pad.
D. Publication IPC–7351 is recommended for alternate designs.
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