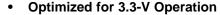


LOW-POWER TRIPLE BUFFER/DRIVER WITH OPEN-DRAIN OUTPUTS

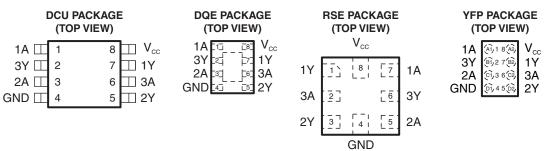
Check for Samples: SN74AUP3G07

FEATURES

- Available in the Texas Instruments NanoStar™ **Package**
- **Low Static-Power Consumption** $(I_{CC} = 0.9 \mu A Maximum)$
- **Low Dynamic-Power Consumption** $(C_{pd} = 4.3 pF Typ at 3.3 V)$
- Low Input Capacitance ($C_i = 1.5 pF Typical$)
- Low Noise Overshoot and Undershoot <10% of V_{CC}
- I_{off} Supports Partial-Power-Down Mode Operation
- Wide Operating V_{CC} Range of 0.8 V to 3.6 V



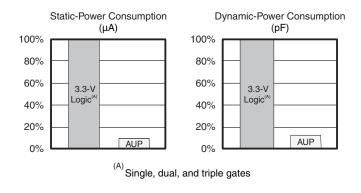
- 3.6-V I/O Tolerant to Support Mixed-Mode Signal Operation
- t_{pd} = 4.3 ns Maximum at 3.3 V
- Suitable for Point-to-Point Applications
- Latch-Up Performance Exceeds 100 mA Per JESD 78, Class II
- **ESD Performance Tested Per JESD 22**
 - 2000-V Human-Body Model (A114-B, Class II)
 - 1000-V Charged-Device Model (C101)

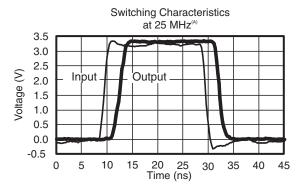


See mechanical drawings for dimensions.

DESCRIPTION/ORDERING INFORMATION

The AUP family is TI's premier solution to the industry's low-power needs in battery-powered portable applications. This family ensures a very low static- and dynamic-power consumption across the entire V_{CC} range of 0.8 V to 3.6 V, resulting in increased battery life (see Figure 1). This product also maintains excellent signal integrity (see the very low undershoot and overshoot characteristics shown in Figure 2).





^(A) SN74AUP3Gxx data at $C_1 = 15 \text{ pF}$.

Figure 1. AUP - The Lowest-Power Family

Figure 2. Excellent Signal Integrity

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. NanoStar is a trademark of Texas Instruments.



The output of SN74AUP3G07 is open drain and can be connected to other open-drain outputs to implement active-low wired-OR or active-high wired-AND functions.

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

This device is fully specified for partial-power-down applications using I_{off}. The I_{off} circuitry disables the outputs, preventing damaging current backflow through the device when it is powered down.

ORDERING INFORMATION(1)

T _A	PACKAGE ⁽²⁾	PACKAGE ⁽²⁾		TOP-SIDE MARKING ⁽³⁾
	NanoStar™ - WCSP (DSBGA) 0.23-mm Large Bump - YFP (Pb-free)	Reel of 3000	SN74AUP3G07YFPR	HV_
–40°C to 85°C	X2SON – DQE	Reel of 5000	SN74AUP3G07DQER	TW
	UQFN - RSE	Reel of 5000	SN74AUP3G07RSER	TW
	US8 – DCU	Reel of 3000	SN74AUP3G07DCUR	H07_

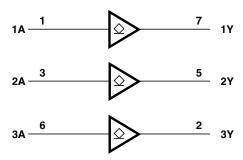
- (1) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI web site at www.ti.com.
- (2) Package drawings, thermal data, and symbolization are available at www.ti.com/packaging.
- (3) DCU: The actual top-side marking has one additional character that designates the wafer fab/assembly site.

 YFP: The actual top-side marking has three preceding characters to denote year, month, and sequence code, and one following character to designate the wafer fab/assembly site. Pin 1 identifier indicates solder-bump composition (1 = SnPb, = Pb-free).

FUNCTION TABLE (EACH BUFFER/DRIVER)

INPUT A	OUTPUT Y
L	L
Н	Z

LOGIC DIAGRAM (POSITIVE LOGIC)



Product Folder Links: SN74AUP3G07

Pin numbers shown are for the DCU and DQE packages.

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ABSOLUTE MAXIMUM RATINGS(1)

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

			MIN	MAX	UNIT
V _{CC}	Supply voltage range		-0.5	4.6	V
VI	Input voltage range ⁽²⁾		-0.5	4.6	V
Vo	Voltage range applied to any output in the	high-impedance or power-off state ⁽²⁾	-0.5	4.6	V
Vo	Output voltage range in the high or low state	te ⁽²⁾	-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V _I < 0		-50	mA
l _{OK}	Output clamp current	V _O < 0		-50	mA
l _o	Continuous output current	•		±20	mA
	Continuous current through V _{CC} or GND			±50	mA
		DCU package		220	
0	Deal and the seal investigation (3)	DQE package		261	0000
θ_{JA}	Package thermal impedance (3)	RSE package		253	°C/W
		YFP package		132	
T _{stg}	Storage temperature range		-65	150	°C

⁽¹⁾ 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.

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

⁽³⁾ The package thermal impedance is calculated in accordance with JESD 51-7.



RECOMMENDED OPERATING CONDITIONS(1)

			MIN	MAX	UNIT
V _{CC}	Supply voltage		0.8	3.6	V
		V _{CC} = 0.8 V	V _{CC}		
V	High level input valte as	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$	0.65 × V _{CC}		V
V_{IH}	High-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$	1.6		V
		V_{CC} = 3 V to 3.6 V	2		
		V _{CC} = 0.8 V		0	
\	Lavy lavyal import valtages	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$		$0.35 \times V_{CC}$	V
V_{IL}	Low-level input voltage	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}$		0.7	V
		V _{CC} = 3 V to 3.6 V		0.9	
VI	Input voltage		0	3.6	V
Vo	Output voltage		0	3.6	V
		V _{CC} = 0.8 V		20	μΑ
		V _{CC} = 1.1 V		1.1	
	Low lovel output ourrent	V _{CC} = 1.4 V		1.7	
l _{OL}	Low-level output current	V _{CC} = 1.65 V		1.9	mA
		V _{CC} = 2.3 V		3.1	
		V _{CC} = 3 V		4	
Δt/Δν	Input transition rise or fall rate	V _{CC} = 0.8 V to 3.6 V		200	ns/V
T _A	Operating free-air temperature		-40	85	°C

⁽¹⁾ All unused inputs of the device must be held at V_{CC} or GND to ensure proper device operation. See 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)

DADAMETED	TEST CONDITIONS	· ·	T _A = 25°C	$T_A = -40$ °C to 85°C	LINUT			
PARAMETER	TEST CONDITIONS	V _{CC}	MIN TYP MAX	MIN MAX	UNIT			
	I _{OL} = 20 μA	0.8 V to 3.6 V	0.1	0.1				
	I _{OL} = 1.1 mA	1.1 V	0.3 × V _{CC}	0.3 × V _{CC}				
	I _{OL} = 1.7 mA	1.4 V	0.31	0.37				
V	I _{OL} = 1.9 mA	1.65 V	0.31	0.35	V			
V _{OL}	I _{OL} = 2.3 mA	2.2.1/	0.31	0.33	V			
	I _{OL} = 3.1 mA	2.3 V	0.44	0.45				
	I _{OL} = 2.7 mA	2.1/	0.31	0.33				
	I _{OL} = 4 mA	3 V	0.44	0.45				
I _I A or B input	V _I = GND to 3.6 V	0 V to 3.6 V	0.1	0.5	μΑ			
I _{off}	V_{I} or $V_{O} = 0 \text{ V to } 3.6 \text{ V}$	0 V	0.2	0.6	μΑ			
Δl _{off}	V_I or $V_O = 0$ V to 3.6 V	0 V to 0.2 V	0.2	0.6	μΑ			
I _{CC}	V _I = GND or (V _{CC} to 3.6 V), I _O = 0	0.8 V to 3.6 V	0.5	0.9	μΑ			
ΔI _{CC}	$V_I = V_{CC} - 0.6 V^{(1)},$ $I_O = 0$	3.3 V	40	50	μΑ			
<u></u>	V V or CND	0 V	1.5		~F			
C_{i}	$V_I = V_{CC}$ or GND	3.6 V	1.5		pF			
Co	V _O = GND	0 V	3		pF			

⁽¹⁾ One input at V_{CC} – 0.6 V, other input at V_{CC} or GND



SWITCHING CHARACTERISTICS

over recommended operating free-air temperature range, $C_L = 5 pF$ (unless otherwise noted) (see Figure 3 and Figure 4)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC}	Т,	_{\(\)} = 25°C		T _A = -	40°C 5°C	UNIT			
		(OUTPUT)		MIN	TYP	MAX	MIN	MAX				
			V 8.0		12.2							
		Y	Y	Y	1.2 V ± 0.1 V	3.4	5.1	7.5	1.5	14.7		
	Δ					1.5 V ± 0.1 V	2.3	3.6	5.1	1.3	8.3	
t _{pd}	Α				1.8 V ± 0.15 V	2.4	3.1	4	1	6.3	ns	
			2.5 V ± 0.2 V	1.5	2.1	2.9	0.9	4.1				
				3.3 V ± 0.3 V	1.8	2.2	2.8	1.1	3.3			

SWITCHING CHARACTERISTICS

over recommended operating free-air temperature range, $C_L = 10 \text{ pF}$ (unless otherwise noted) (see Figure 3 and Figure 4)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC}	T,	λ = 25°C		T _A = -		UNIT							
		(OUTPUT)		MIN	TYP	MAX	MIN	MAX								
			V 8.0		15											
		Y	1.2 V ± 0.1 V	4	6.2	9	2.4	16.2								
	Δ		Y	Υ	V	V	V	V	V	1.5 V ± 0.1 V	3.1	4.4	6.1	2	9.4	
t _{pd}	Α				1.8 V ± 0.15 V	3.3	3.9	4.8	1.6	7.1	ns					
			2.5 V ± 0.2 V	2.1	2.8	3.5	1.3	4.8								
			3.3 V ± 0.3 V	2.3	3	4	1.4	4.5								

SWITCHING CHARACTERISTICS

over recommended operating free-air temperature range, C_L = 15 pF (unless otherwise noted) (see Figure 3 and Figure 4)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{cc}	T,	\ = 25°C		T _A = -		UNIT						
		(001F01)		MIN	TYP	MAX	MIN	MAX							
			0.8 V		18.2										
		Y	1.2 V ± 0.1 V	4.9	7.3	10.4	3.2	17.6							
4			Y	Y			V		1.5 V ± 0.1 V	3.8	5.2	6.8	2.6	10.2	
t _{pd}	Α				1.8 V ± 0.15 V	3.4	4.8	6.7	2.2	7.9	ns				
			2.5 V ± 0.2 V	2.4	3.4	4.5	1.9	5.3							
			3.3 V ± 0.3 V	2.2	3.7	5.4	1.8	6.1							

SWITCHING CHARACTERISTICS

over recommended operating free-air temperature range, C_L = 30 pF (unless otherwise noted) (see Figure 3 and Figure 4)

PARAMETER	FROM	TO (OUTPUT)	V _{cc}	T	λ = 25°C		T _A = -40 85°		UNIT			
	(INPUT)	(OUTPUT)		MIN	TYP	MAX	MIN	MAX				
			0.8 V		26.5							
	A		Y			1.2 V ± 0.1 V	8.1	10.7	14.4	4.5	21.9	
4		Y		1.5 V ± 0.1 V	3.0	7.7	12.3	2.5	13			
t _{pd}	Α			1.8 V ± 0.15 V	4.8	7.5	9.7	3.6	11	ns		
			2.5 V ± 0.2 V	3.7	5.4	6.7	2.8	7.1				
			3.3 V ± 0.3 V	3.9	6.3	9.7	2.8	10.4				

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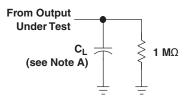
OPERATING CHARACTERISTICS

 $T_A = 25$ °C

	PARAMETER	TEST CONDITIONS	V _{cc}	TYP	UNIT
			0.8 V	4	
			1.2 V ± 0.1 V	4	
0	Davis dissinction consistence	((0.11)	1.5 V ± 0.1 V	4	
C _{pd}	Power dissipation capacitance	f = 10 MHz	1.8 V ± 0.15 V	4	pF
			2.5 V ± 0.2 V	4.1	
			3.3 V ± 0.3 V	4.3	

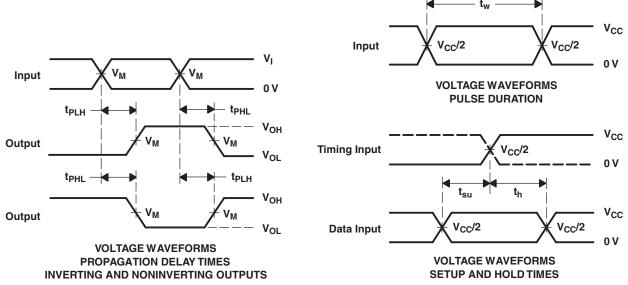


PARAMETER MEASUREMENT INFORMATION (Propagation Delays, Setup and Hold Times, and Pulse Width)



LOAD CIRCUIT

	V _{CC} = 0.8 V	V _{CC} = 1.2 V ± 0.1 V	V _{CC} = 1.5 V ± 0.1 V	V_{CC} = 1.8 V \pm 0.15 V	V_{CC} = 2.5 V \pm 0.2 V	V _{CC} = 3.3 V ± 0.3 V
C _L	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF
V _M	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2
V _I	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}



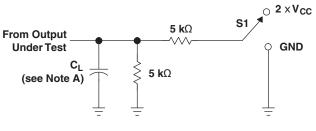
- A. C₁ includes probe and jig capacitance.
- B. Waveform 1 is for an output with internal conditions such that the output is low, except when disabled by the output control. Waveform 2 is for an output with internal conditions such that the output is high, except when disabled by the output control.
- C. All input pulses are supplied by generators having the following characteristics: PRR \leq 10 MHz, $Z_O = 50~\Omega$, for propagation delays $t_r/t_f = 3$ ns, for setup and hold times and pulse width $t_r/t_f = 1.2$ ns.
- D. The outputs are measured one at a time, with one transition per measurement.
- E. t_{PLH} and t_{PHL} are the same as t_{pd}.
- F. All parameters and waveforms are not applicable to all devices.

Figure 3. Load Circuit and Voltage Waveforms

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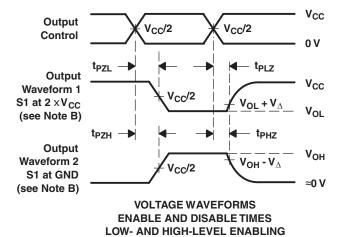
PARAMETER MEASUREMENT INFORMATION (Enable and Disable Times)



TEST	S1
t _{PLZ} /t _{PZL}	2×V _{CC}
t _{PHZ} /t _{PZH}	GND

LOAD CIRCUIT

	V _{CC} = 0.8 V	V _{CC} = 1.2 V ± 0.1 V	V _{CC} = 1.5 V ± 0.1 V	V_{CC} = 1.8 V \pm 0.15 V	V_{CC} = 2.5 V \pm 0.2 V	V _{CC} = 3.3 V ± 0.3 V
C _L	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF	5, 10, 15, 30 pF
V _M	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2
V _I	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}
V _∆	0.1 V	0.1 V	0.1 V	0.15 V	0.15 V	0.3 V



- 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, $Z_O = 50 \Omega$, $t_r/t_f = 3 \text{ ns}$.
- 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_{PLH} and t_{PHL} are the same as t_{pd} .
- G. All parameters and waveforms are not applicable to all devices.

Figure 4. Load Circuit and Voltage Waveforms

Product Folder Links: SN74AUP3G07

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SCES780C - DECEMBER 2009-REVISED FEBRUARY 2013



REVISION HISTORY

CI	hanges from Revision B (March 2010) to Revision C	Page
•	Updated ORDERING INFORMATION table.	2
•	Changed max value for V _O from V _{CC} to 3.6 V	4





6-Feb-2020

PACKAGING INFORMATION

Orderable Device	Status	Package Type	Package Drawing	Pins	Package Qty	Eco Plan	Lead/Ball Finish	MSL Peak Temp	Op Temp (°C)	Device Marking (4/5)	Samples
SN74AUP3G07DCUR	ACTIVE	VSSOP	DCU	8	3000	Green (RoHS & no Sb/Br)	NIPDAU	Level-1-260C-UNLIM	-40 to 85	H07R	Samples
SN74AUP3G07DQER	ACTIVE	X2SON	DQE	8	5000	Green (RoHS & no Sb/Br)	NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	TW	Samples
SN74AUP3G07RSER	ACTIVE	UQFN	RSE	8	5000	Green (RoHS & no Sb/Br)	NIPDAUAG	Level-1-260C-UNLIM	-40 to 85	TW	Samples
SN74AUP3G07YFPR	ACTIVE	DSBGA	YFP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM	-40 to 85	HVN	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) RoHS: TI defines "RoHS" to mean semiconductor products that are compliant with the current EU RoHS requirements for all 10 RoHS substances, including the requirement that RoHS substance do not exceed 0.1% by weight in homogeneous materials. Where designed to be soldered at high temperatures, "RoHS" products are suitable for use in specified lead-free processes. TI may reference these types of products as "Pb-Free".

RoHS Exempt: TI defines "RoHS Exempt" to mean products that contain lead but are compliant with EU RoHS pursuant to a specific EU RoHS exemption.

Green: TI defines "Green" to mean the content of Chlorine (CI) and Bromine (Br) based flame retardants meet JS709B low halogen requirements of <=1000ppm threshold. Antimony trioxide based flame retardants must also meet the <=1000ppm threshold requirement.

- (3) MSL, Peak Temp. The Moisture Sensitivity Level rating according to the JEDEC industry standard classifications, and peak solder temperature.
- (4) There may be additional marking, which relates to the logo, the lot trace code information, or the environmental category on the device.
- (5) 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.
- (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.

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



PACKAGE OPTION ADDENDUM

6-Feb-2020

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.

PACKAGE MATERIALS INFORMATION

www.ti.com 18-Jan-2020

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	
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

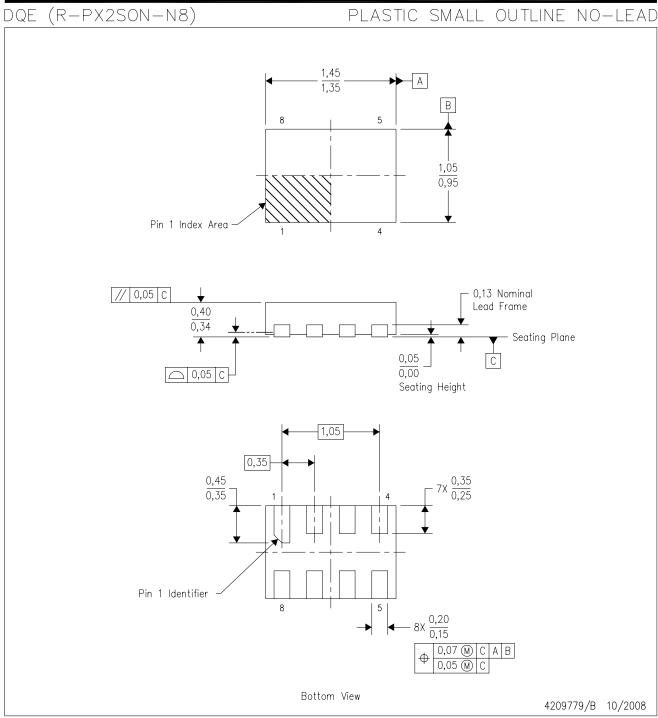
All differsions are norminal												
Device	Package Type	Package Drawing		SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
SN74AUP3G07DCUR	VSSOP	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74AUP3G07DQER	X2SON	DQE	8	5000	180.0	8.4	1.2	1.6	0.55	4.0	8.0	Q1
SN74AUP3G07RSER	UQFN	RSE	8	5000	180.0	8.4	1.7	1.7	0.7	4.0	8.0	Q2
SN74AUP3G07YFPR	DSBGA	YFP	8	3000	178.0	9.2	0.9	1.75	0.6	4.0	8.0	Q1

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*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUP3G07DCUR	VSSOP	DCU	8	3000	202.0	201.0	28.0
SN74AUP3G07DQER	X2SON	DQE	8	5000	202.0	201.0	28.0
SN74AUP3G07RSER	UQFN	RSE	8	5000	202.0	201.0	28.0
SN74AUP3G07YFPR	DSBGA	YFP	8	3000	220.0	220.0	35.0



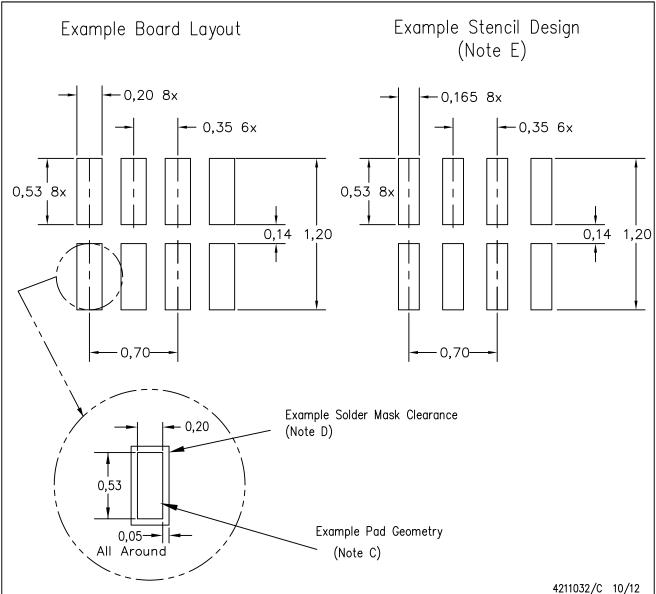
NOTES: All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M-1994.

- B. This drawing is subject to change without notice.
 C. SON (Small Outline No-Lead) package configuration.
 D. This package complies to JEDEC MO-287 variation X2EAF.



DQE (R-PX2SON-N8)

PLASTIC SMALL OUTLINE NO-LEAD



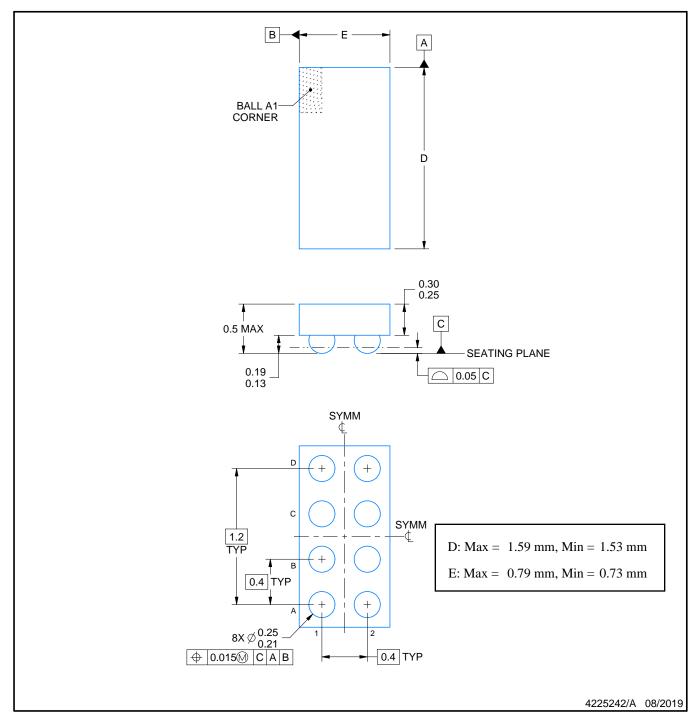
NOTES:

- 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. Customers should contact their board fabrication site for minimum solder mask web tolerances between signal pads. If 2 mil solder mask is outside PCB vendor capability, it is advised to omit solder mask.
- E. Maximum stencil thickness 0,1016 mm (4 mils). All linear dimensions are in millimeters.
- F. 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 stencil design considerations.
- G. Over—printing land for acceptable area ratio is not viable due to land width and bridging potential. Customer may further reduce side aperture dimensions if stencil manufacturing process allows for sufficient release at smaller opening.
- H. Suggest stencils cut with lasers such as Fiber Laser that produce the greatest positional accuracy.
- I. Component placement force should be minimized to prevent excessive paste block deformation.





DIE SIZE BALL GRID ARRAY



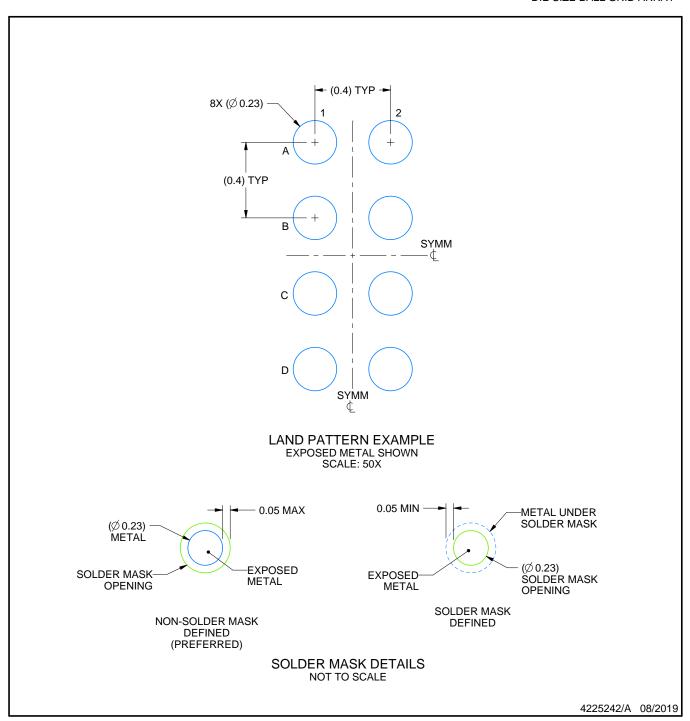
NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.

 2. This drawing is subject to change without notice.



DIE SIZE BALL GRID ARRAY

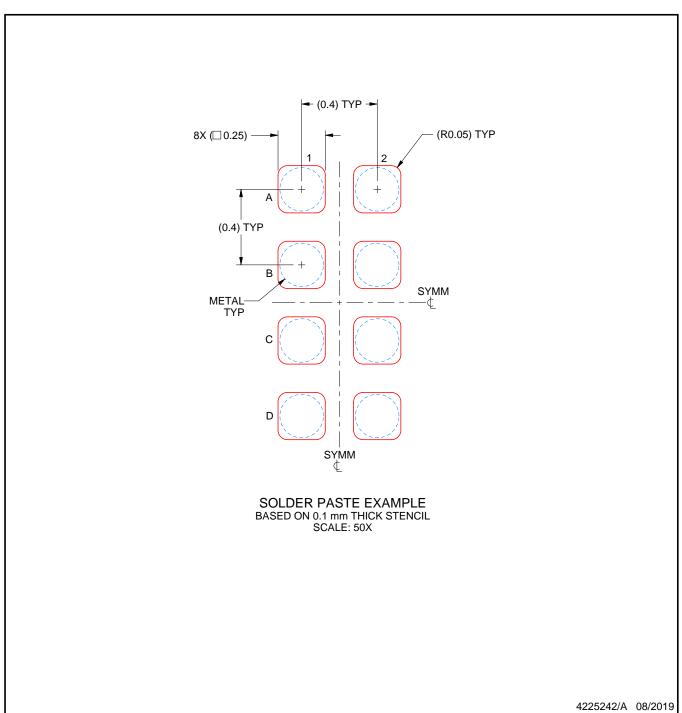


NOTES: (continued)

Final dimensions may vary due to manufacturing tolerance considerations and also routing constraints. See Texas Instruments Literature No. SNVA009 (www.ti.com/lit/snva009).



DIE SIZE BALL GRID ARRAY



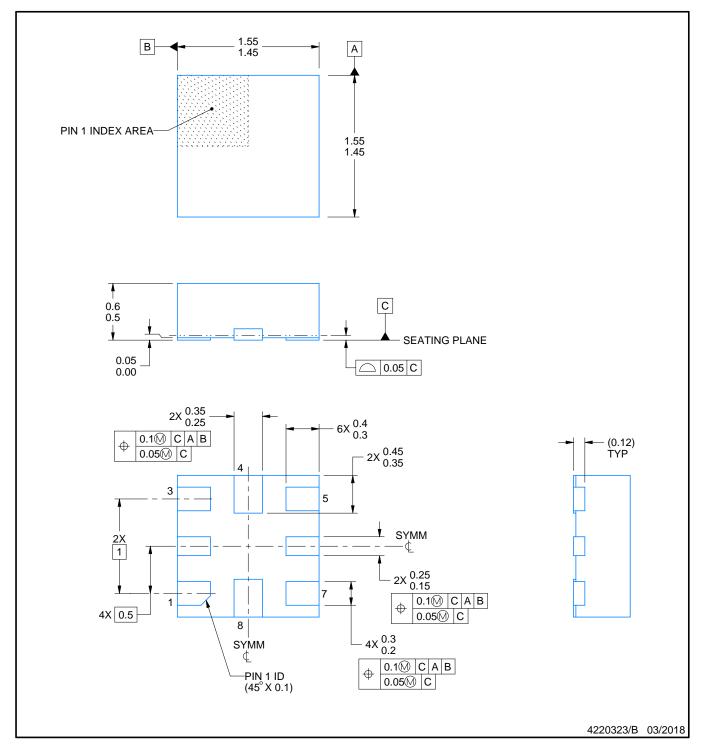
NOTES: (continued)

4. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release.





PLASTIC QUAD FLATPACK - NO LEAD

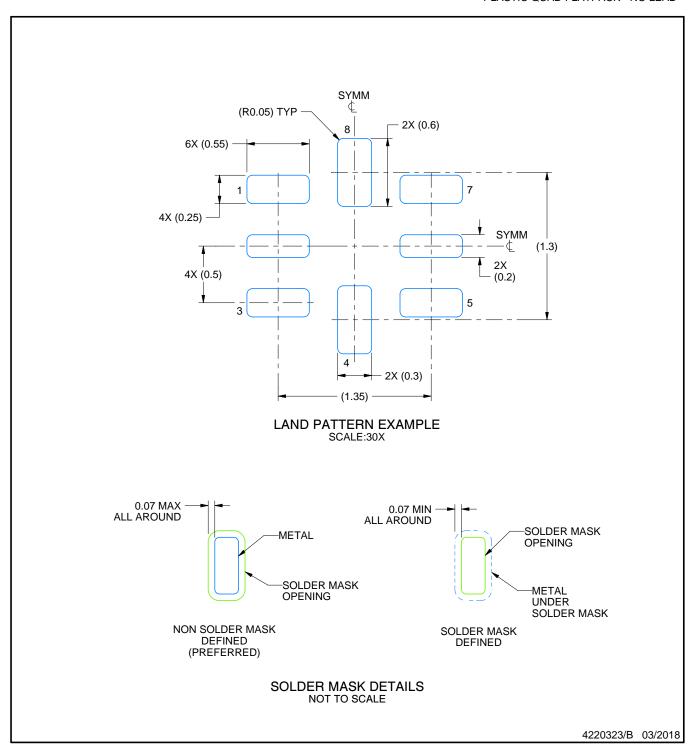


NOTES:

- 1. All linear dimensions are in millimeters. Any dimensions in parenthesis are for reference only. Dimensioning and tolerancing per ASME Y14.5M.
- 2. This drawing is subject to change without notice.



PLASTIC QUAD FLATPACK - NO LEAD

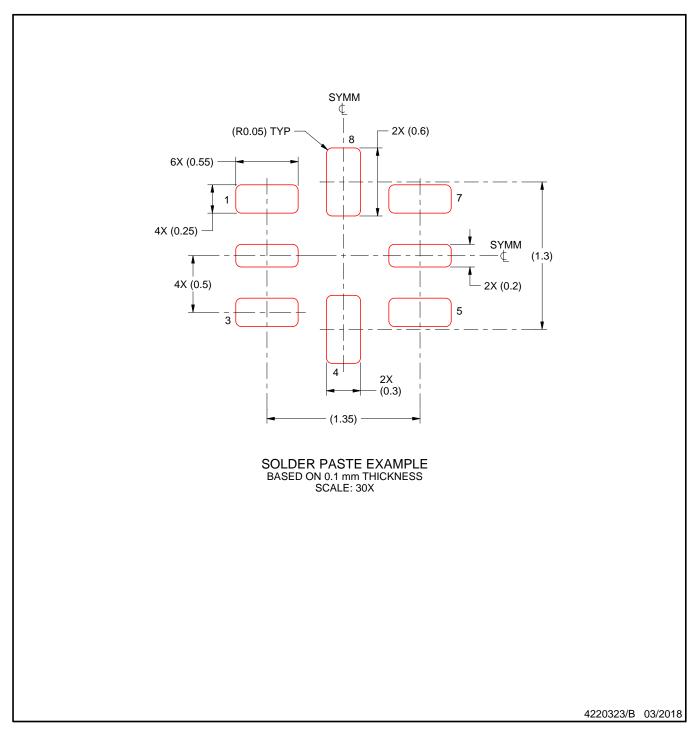


NOTES: (continued)

3. For more information, see Texas Instruments literature number SLUA271 (www.ti.com/lit/slua271).



PLASTIC QUAD FLATPACK - NO LEAD



NOTES: (continued)

5. Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.



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.



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