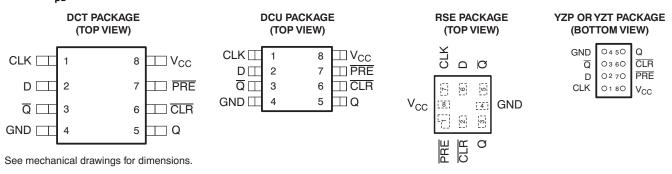


FEATURES

- Available in the Texas Instruments NanoFree[™] Package
- Optimized for 1.8-V Operation and Is 3.6-V I/O **Tolerant to Support Mixed-Mode Signal** Operation
- Ioff Supports Partial-Power-Down Mode Operation
- Sub-1-V Operable .
- Max t_{pd} of 1.5 ns at 1.8 V

- Low Power Consumption, 10-µA Max I_{CC}
- ±8-mA Output Drive at 1.8 V
- Latch-Up Performance Exceeds 100 mA Per JESD 78. Class II
- ESD Protection Exceeds JESD 22
 - 2000-V Human-Body Model (A114-A)
 - 200-V Machine Model (A115-A)
 - 1000-V Charged-Device Model (C101)



DESCRIPTION/ORDERING INFORMATION

This single positive-edge-triggered D-type flip-flop is operational at 0.8-V to 2.7-V V_{CC}, but is designed specifically for 1.65-V to 1.95-V V_{CC} operation.

A low level at the preset (PRE) or clear (CLR) input sets or resets the outputs, regardless of the levels of the other inputs. When PRE and CLR are inactive (high), data at the data (D) input meeting the setup time requirements is transferred to the outputs on the positive-going edge of the clock pulse. Clock triggering occurs at a voltage level and is not related directly to the rise time of the clock pulse. Following the hold-time interval, data at the D input can be changed without affecting the levels at the outputs. To better optimize the flip-flop for higher frequencies, the CLR input overrides the PRE input when they are both low.

NanoFree[™] 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.



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.

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ORDERING INFORMATION

T _A	PACKAGE ⁽¹⁾⁽²⁾		ORDERABLE PART NUMBER	TOP-SIDE MARKING ⁽³⁾
	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free)	Reel of 3000	SN74AUC1G74YZPR	LID
–40°C to 85°C	NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZT (Pb-free) Reel of 3000	Reel of 3000	SN74AUC1G74YZTR	UP_
	QFN – RSE	Reel of 3000	SN74AUC1G74RSER	UP
	SSOP – DCT	Reel of 3000	SN74AUC1G74DCTR	U74
	VSSOP – DCU	Reel of 3000	SN74AUC1G74DCUR	U74_

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

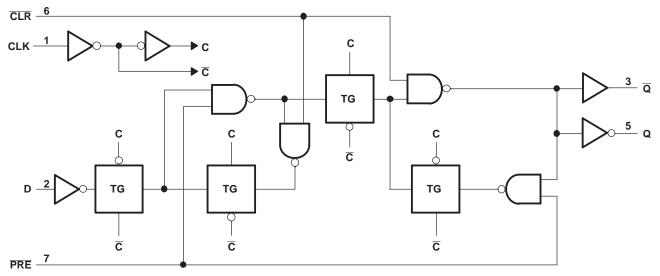
(2) For the most current package and ordering information, see the Package Option Addendum at the end of this document, or see the TI website at www.ti.com.

(3) 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/YZT: 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).

	INP	UTS		OUT	PUTS
PRE	CLR	CLK	D	Q	Q
L	Н	Х	Х	Н	L
Х	L	Х	Х	L	Н
Н	Н	\uparrow	Н	н	L
Н	Н	\uparrow	L	L	Н
Н	Н	L	Х	Q ₀	<u>Q</u> 0

FUNCTION TABLE

LOGIC DIAGRAM (POSITIVE LOGIC)



A. Pin numbers shown are for the DCT, DCU, YZP, and YZT packages only.



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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	3.6	V
VI	Input voltage range ⁽²⁾		-0.5	3.6	V
Vo	Voltage range applied to any output in the	he high-impedance or power-off state ⁽²⁾	-0.5	3.6	V
Vo	Output voltage range ⁽²⁾		-0.5	V _{CC} + 0.5	V
I _{IK}	Input clamp current	V ₁ < 0		-50	mA
I _{OK}	Output clamp current	V _O < 0		-50	mA
I _O	Continuous output current			±20	mA
	Continuous current through V_{CC} or GND)		±100	mA
		DCT package		220	
0	Package thermal impedance ⁽³⁾	DCU package		227	°C/W
θ_{JA}		RSE package		253	-0/00
		YZP/YZT package		102	
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.

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

(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	2.7	V
		$V_{CC} = 0.8 V$	V _{CC}		
VIH	High-level input voltage	$V_{CC} = 1.1 \text{ V to } 1.95 \text{ V}$	$0.65 imes V_{CC}$		V
		V_{CC} = 2.3 V to 2.7 V	1.7		
		$V_{CC} = 0.8 V$		0	
VIL	Low-level 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	
VI	Input voltage		0	3.6	V
Vo	Output voltage		0	V _{CC}	V
		V _{CC} = 0.8 V		-0.7	
		V _{CC} = 1.1 V		-3	
I _{OH}	High-level output current	$V_{CC} = 1.4 V$		-5	mA
		V _{CC} = 1.65 V		-8	
		$V_{CC} = 2.3 V$		-9	
		$V_{CC} = 0.8 V$		0.7	
		$V_{CC} = 1.1 V$		3	
I _{OL}	Low-level output current	$V_{CC} = 1.4 V$		5	mA
		$V_{CC} = 1.65 V$		8	
		$V_{CC} = 2.3 V$		9	
		$V_{CC} = 0.8 \text{ V to } 1.65 \text{ V}^{(2)}$		20	
Δt/Δv	Input transition rise or fall rate	V_{CC} = 1.65 V to 2.3 V ⁽³⁾		20	ns/V
	2v Input transition rise or fall rate	$V_{CC} = 2.3 \text{ V to } 2.7 \text{ V}^{(3)}$		20	
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. Refer to the TI application report, Implications of Slow or Floating CMOS Inputs, literature number SCBA004.

(2) The data was taken at $C_L = 15 \text{ pF}$, $R_L = 2 \text{ k}\Omega$ (see Figure 1). (3) The data was taken at $C_L = 30 \text{ pF}$, $R_L = 500 \Omega$ (see Figure 1).

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Electrical Characteristics

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

PARAMETER	TEST CONDITIONS	V _{cc}	MIN TYP ⁽¹⁾ MAX	UNIT
	I _{OH} = -100 μA	0.8 V to 2.7 V	V _{CC} – 0.1	
	$I_{OH} = -0.7 \text{ mA}$	0.8 V	0.55	
M	$I_{OH} = -3 \text{ mA}$	1.1 V	0.8	V
V _{OH}	$I_{OH} = -5 \text{ mA}$	1.4 V	1	v
	$I_{OH} = -8 \text{ mA}$	1.65 V	1.2	
	$I_{OH} = -9 \text{ mA}$	2.3 V	1.8	
	I _{OL} = 100 μA	0.8 V to 2.7 V	0.2	
	I _{OL} = 0.7 mA	0.8 V	0.25	
M	I _{OL} = 3 mA	1.1 V	0.3	V
V _{OL}	I _{OL} = 5 mA	1.4 V	0.4	v
	I _{OL} = 8 mA	1.65 V	0.45	
	I _{OL} = 9 mA	2.3 V	0.6	
II All inputs	$V_1 = V_{CC}$ or GND	0 to 2.7 V	5	μA
l _{off}	$V_{I} \text{ or } V_{O} = 2.7 \text{ V}$	0	±10	μA
I _{CC}	$V_1 = V_{CC} \text{ or } GND, \qquad I_O = 0$	0.8 V to 2.7 V	10	μA
CI	$V_1 = V_{CC}$ or GND	2.5 V	2.5	pF

(1) All typical values are at $T_A = 25^{\circ}C$.

Timing Requirements

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

			V _{CC} = 0.8 V	V _{CC} = ± 0.	1.2 V 1 V	V _{CC} = ± 0.		V _{CC} = ± 0.1		V _{CC} = ± 0.		UNIT
			TYP	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	
f _{clock}	Clock frequency		50		200		225		250		275	MHz
		CLK	2	1		1		1		1		
t _w	Pulse duration	PRE or CLR low	5	1.5		1		1		1		ns
		Data	2.2	0.6		0.5		0.5		0.4		
t _{su}	Setup time before CLK↑	PRE or CLR inactive	2.9	1.6		0.9		0.7		0.4		ns
t _h	Hold time, data after CLK [↑]		1.2	0.5		0.4		0.3		0.3		ns

Switching Characteristics

over recommended operating free-air temperature range, C_L = 15 pF (unless otherwise noted) (see Figure 1)

PARAMETER	FROM (INPUT)	TO (OUTPUT)	V _{CC} = 0.8 V	V _{CC} = ± 0.		V _{CC} = ± 0.	1.5 V 1 V		c = 1.8 : 0.15 V		V _{CC} = ± 0.		UNIT
	(INPOT)	(001201)	TYP	MIN	MAX	MIN	MAX	MIN	TYP	MAX	MIN	MAX	
f _{max}			50	200		225		250			275		MHz
	CLK	Q	10.3	1.7	3.7	1.2	2.5	1	1.2	1.7	0.8	1.2	
t _{pd}	CLK	Q	9.6	1	3.8	1	3	0.9	1.1	1.5	0.7	1.1	ns
	PRE or CLR	Q or \overline{Q}	12.9	2	4.5	0.9	3.1	1.1	1.5	2.2	0.9	1.5	



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Switching Characteristics

over recommended operating free-air temperature range, $C_L = 30 \text{ pF}$ (unless otherwise noted) (see Figure 1)

PARAMETER	FROM	TO		c = 1.8 0.15 \		V _{CC} = ± 0.	UNIT	
	(INPUT)	(OUTPUT)	MIN	TYP	MAX	MIN	MAX	
f _{max}			250			275		ns
	CLK	Q	1.5	1.9	2.4	1.4	1.8	
t _{pd}	ULK	Q	1.4	1.9	2.4	1.3	1.8	ns
	PRE or CLR	Q or \overline{Q}	1.7	2.2	2.8	1.5	2.1	

Operating Characteristics

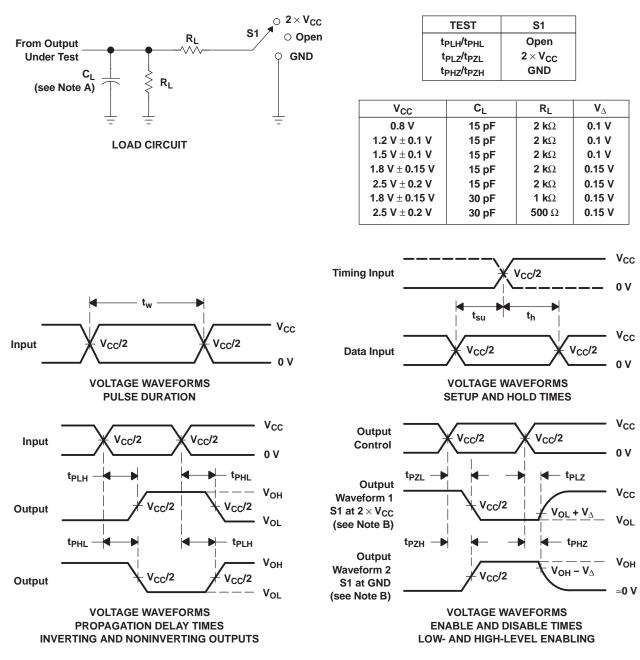
 $T_A = 25^{\circ}C$

	PARAMETER	TEST CONDITIONS	V _{CC} = 0.8 V TYP	V _{CC} = 1.2 V TYP	V _{CC} = 1.5 V TYP	V _{CC} = 1.8 V TYP	V _{CC} = 2.5 V TYP	UNIT
C _{pd}	Power dissipation capacitance	f = 10 MHz	35	36	39	44	59	pF

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PARAMETER MEASUREMENT INFORMATION



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, Z₀ = 50 Ω , 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_{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 1. Load Circuit and Voltage Waveforms

www.ti.com

PACKAGING INFORMATION

Orderable Device	Status ⁽¹⁾	Package Type	Package Drawing	Pins	Package Qty	e Eco Plan ⁽²⁾	Lead/Ball Finish	MSL Peak Temp ⁽³⁾
SN74AUC1G74DCTR	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC1G74DCTRE4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC1G74DCTRG4	ACTIVE	SM8	DCT	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC1G74DCUR	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC1G74DCURE4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC1G74DCURG4	ACTIVE	US8	DCU	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC1G74RSER	ACTIVE	UQFN	RSE	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC1G74RSERG4	ACTIVE	UQFN	RSE	8	3000	Green (RoHS & no Sb/Br)	CU NIPDAU	Level-1-260C-UNLIM
SN74AUC1G74YZPR	ACTIVE	DSBGA	YZP	8	3000	Green (RoHS & no Sb/Br)	SNAGCU	Level-1-260C-UNLIM

⁽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.

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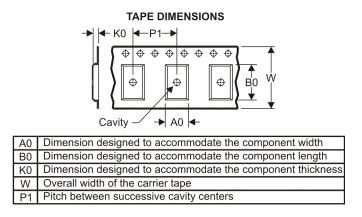
PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





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
SN74AUC1G74DCUR	US8	DCU	8	3000	180.0	8.4	2.25	3.35	1.05	4.0	8.0	Q3
SN74AUC1G74RSER	UQFN	RSE	8	3000	179.0	8.4	1.7	1.7	0.76	4.0	8.0	Q2
SN74AUC1G74YZPR	DSBGA	YZP	8	3000	180.0	8.4	1.02	2.02	0.63	4.0	8.0	Q1

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PACKAGE MATERIALS INFORMATION

6-May-2011



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Length (mm)	Width (mm)	Height (mm)
SN74AUC1G74DCUR	US8	DCU	8	3000	202.0	201.0	28.0
SN74AUC1G74RSER	UQFN	RSE	8	3000	203.0	203.0	35.0
SN74AUC1G74YZPR	DSBGA	YZP	8	3000	220.0	220.0	34.0

MECHANICAL DATA

MPDS049B - MAY 1999 - REVISED OCTOBER 2002

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.



DCU (R-PDSO-G8)

PLASTIC SMALL-OUTLINE PACKAGE (DIE DOWN)



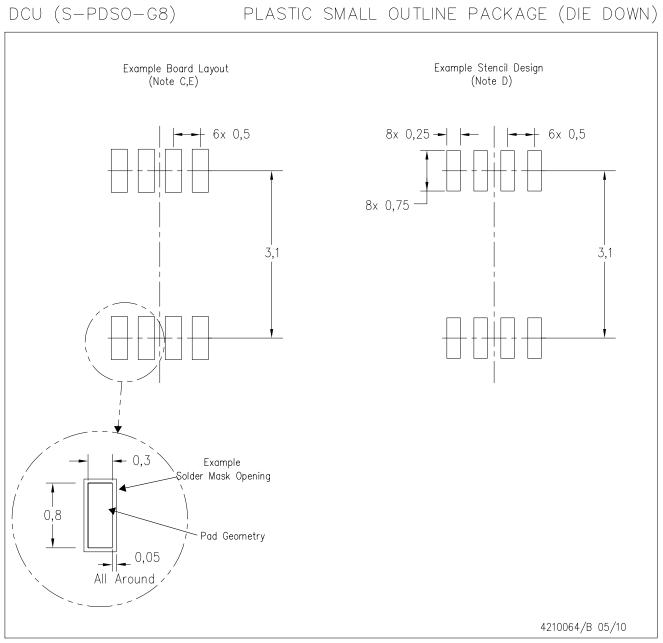
NOTES: A. All linear dimensions are in millimeters.

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.



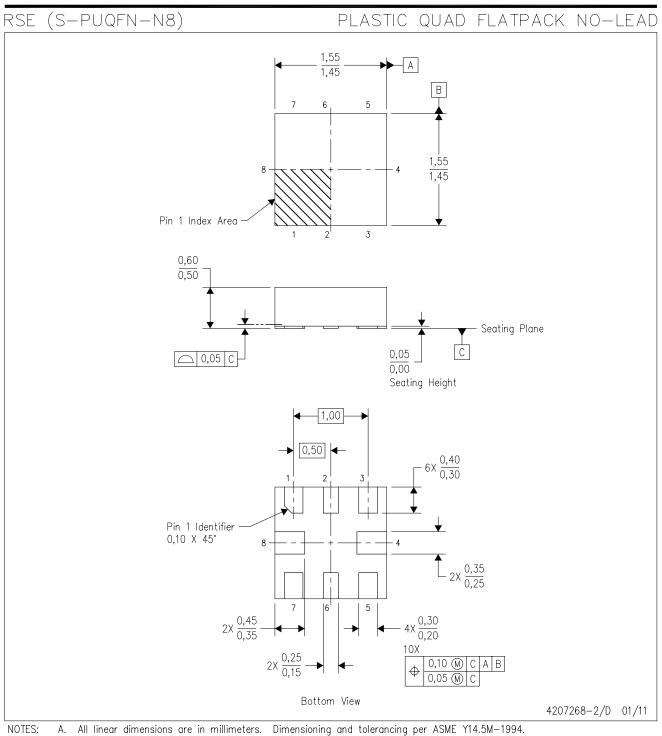


NOTES: A. All linear dimensions are in millimeters.

- 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.



MECHANICAL DATA

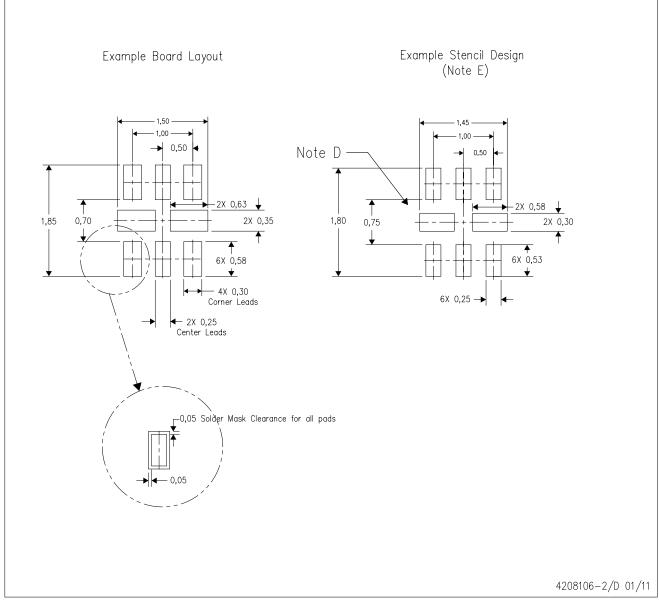


B. This drawing is subject to change without notice.
C. QFN (Quad Flatpack No-Lead) package configuration.
D. This package complies to JEDEC MO-288 variation UECD.



RSE (S-PUQFN-N8)

PLASTIC QUAD FLATPACK NO-LEAD



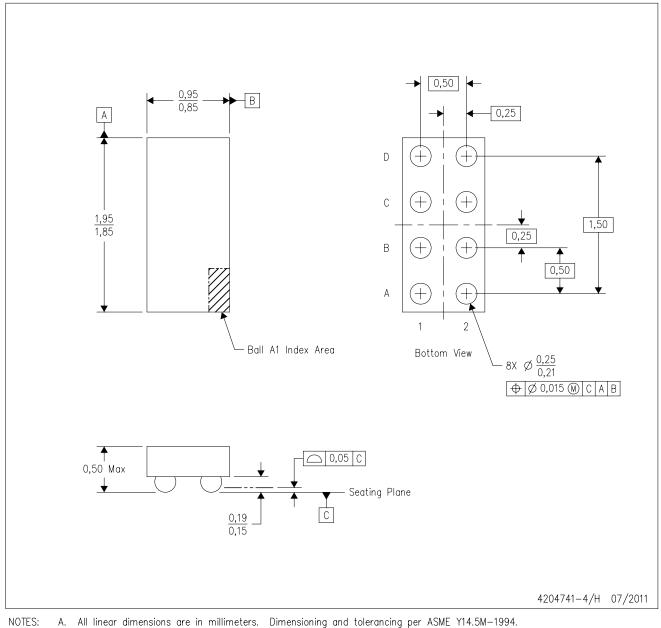
NOTES: A. All linear dimensions are in millimeters.

- 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.
- E. Maximum stencil thickness 0,127 mm (5 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. Side aperture dimensions over-print land for acceptable area ratio > 0.66. Customer may reduce side aperture dimensions if stencil manufacturing process allows for sufficient release at smaller opening.



YZP (R-XBGA-N8)

DIE-SIZE BALL GRID ARRAY



B. This drawing is subject to change without notice.

- C. NanoFree™ package configuration.
- D. This package is a Pb-free solder ball design. Refer to the 8 YEP package (drawing 4204725) for tin-lead (SnPb).

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Data Converters	dataconverter.ti.com	Consumer Electronics	www.ti.com/consumer-apps
DLP® Products	www.dlp.com	Energy and Lighting	www.ti.com/energy
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RF/IF and ZigBee® Solutions	www.ti.com/lprf		

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