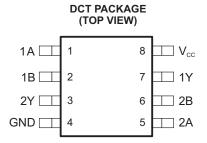


FEATURES

- 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 1.7 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)

| 1 | | ACKAGE VIEW) | 1 | | PACK/ | |
|-------|---|-----------------|--------------|-----|---------|-----------------|
| 1A 🖂 | 1 | 8 | | GND | O4 50 | 2A |
| 1B □ | 2 | 7 | ∏ 1Y | 2Y | O 3 6 O | 2B |
| 2Y □ | 3 | 6 | ⊡ 2B | 1B | 0270 | 1Y |
| GND 🗆 | 4 | 5 | ⊥ 2B ⊥ 2A | 1A | 0180 | V _{CC} |

See mechanical drawings for dimensions.

DESCRIPTION/ORDERING INFORMATION

This dual 2-input exclusive-OR gate 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.

The SN74AUC2G86 performs the Boolean function $Y = A \oplus B$ or $Y = \overline{AB} + A\overline{B}$ in positive logic.

A common application is as a true/complement element. If the input is low, the other input is reproduced in true form at the output. If the input is high, the signal on the other input is reproduced inverted at the output.

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.

| T _A | PACKAGE ⁽¹⁾ | | ORDERABLE PART NUMBER | TOP-SIDE MARKING ⁽²⁾ |
|----------------|--|--------------|-----------------------|---------------------------------|
| | NanoFree™ – WCSP (DSBGA) 0.23-mm Large Bump – YZP (Pb-free) | Reel of 3000 | SN74AUC2G86YZPR | UH_ |
| –40°C to 85°C | SSOP – DCT | Reel of 3000 | SN74AUC2G86DCTR | U86 |
| | VSSOP – DCU | Reel of 3000 | SN74AUC2G86DCUR | U86_ |

ORDERING INFORMATION

(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.



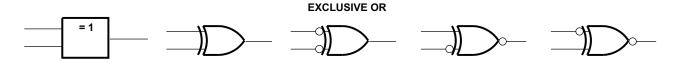
Please be aware that an important notice concerning availability, standard warranty, and use in critical applications of Texas Instruments semiconductor products and disclaimers thereto appears at the end of this data sheet. NanoFree is a trademark of Texas Instruments.

FUNCTION TABLE (each gate)

| INPU | JTS | OUTPUT |
|------|-----|--------|
| Α | В | Y |
| L | L | L |
| L | Н | н |
| Н | L | н |
| Н | Н | L |

EXCLUSIVE-OR LOGIC

An exclusive-OR gate has many applications, some of which can be represented better by alternative logic symbols.



These are five equivalent exclusive-OR symbols valid for an SN74AUC2G86 gate in positive logic; negation may be shown at any two ports.

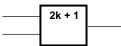
The output is active (low) if all inputs stand at the same logic level (i.e., A = B).





The output is active (low) if an even number of inputs (i.e., 0 or 2) are active.

ODD-PARITY ELEMENT



The output is active (high) if an odd number of inputs (i.e., only 1 of the 2) are active.

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 h | nigh-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 | | -50 | mA | |
| I _O | Continuous output current | | | ±20 | mA |
| | Continuous current through V_{CC} or GND | | | ±100 | mA |
| | | DCT package | | 220 | |
| θ_{JA} | Package thermal impedance ⁽³⁾ | DCU package | | 227 | °C/W |
| | | | 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.

(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 | 2.7 | V |
| | | $V_{CC} = 0.8 V$ | V _{CC} | | |
| V _{IH} | 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 | |
| V _{IL} | 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 | |
| $\Delta t / \Delta v$ | Input transition rise or fall rate | | | 20 | ns/V |
| T _A | Operating free-air temperature | | -40 | 85 | °C |

 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 ⁽¹⁾ | MAX | UNIT |
|------------------|--|-----------------|-----------------------|--------------------|------|------|
| | I _{OH} = -100 μA | 0.8 V to 2.7 V | V _{CC} - 0.1 | | | |
| | I _{OH} = -0.7 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 | | |
| | 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 A or B inputs | $V_{I} = V_{CC} \text{ or } GND$ | 0 to 2.7 V | | | ±5 | μA |
| l _{off} | $V_1 \text{ or } V_0 = 2.7 \text{ V}$ | 0 | | | ±10 | μA |
| I _{CC} | $V_{I} = V_{CC} \text{ or } GND, \qquad I_{O} = 0$ | 0.8 V to 2.7 V | | | 10 | μA |
| C _i | $V_{I} = V_{CC} \text{ or } GND$ | 2.5 V | | 2.5 | | pF |

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

SN74AUC2G86 DUAL 2-INPUT EXCLUSIVE-OR GATE

SCES479B-AUGUST 2003-REVISED JANUARY 2007

TEXAS INSTRUMENTS www.ti.com

Switching Characteristics

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

| PARAMETER | FROM TO (INPUT) (OUTPUT) | | V _{CC} = 0.8 V | V_{CC} = 1.2 V \pm 0.1 V | | V_{CC} = 1.5 V ± 0.1 V | | V _{CC} = 1.8 V ± 0.15 V | | | V_{CC} = 2.5 V \pm 0.2 V | | UNIT |
|-----------------|-----------------------------|----------|-------------------------|---------------------------------|-----|-----------------------------|-----|-------------------------------------|-----|-----|---------------------------------|-------|------|
| | (INFOT) | (001-01) | TYP | MIN | MAX | MIN | MAX | MIN | TYP | MAX | MIN | N MAX | |
| t _{pd} | A or B | Y | 5.3 | 0.8 | 3.8 | 0.5 | 2.6 | 0.4 | 1 | 1.7 | 0.3 | 1.3 | ns |

Switching Characteristics

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

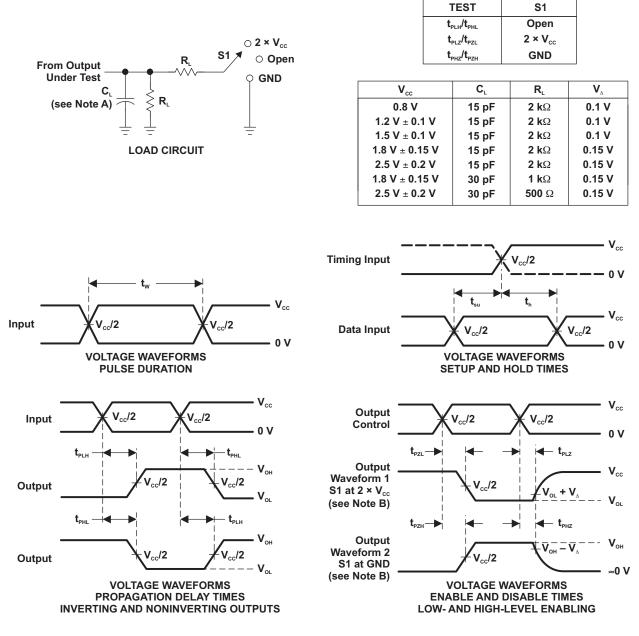
| PARAMETER | FROM (INPUT) | TO | | _c = 1.8 V 0.15 V | | V _{CC} = 2 ± 0.2 | UNIT | |
|-----------------|-----------------|----------|-----|--------------------------------|-----|------------------------------|------|----|
| | | (OUTPUT) | MIN | TYP | MAX | MIN | MAX | |
| t _{pd} | A or B | Y | 0.8 | 1.5 | 2.6 | 0.7 | 2 | ns |

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 | 15 | 15 | 16 | 19 | 27 | pF |

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, Z_o = 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 $\dot{t}_{_{PHZ}}$ are the same as $t_{_{dis}}$.
- F. $t_{\mbox{\tiny PZL}}$ and $t_{\mbox{\tiny PZH}}$ are the same as $t_{\mbox{\tiny en}}.$
- G. t_{PIH} and t_{PHI} are the same as t_{od} .

Figure 1. Load Circuit and Voltage Waveforms



PACKAGING INFORMATION

| Orderable Device | Status | Package Type | - | Pins | Package | Eco Plan | Lead finish/ | MSL Peak Temp | Op Temp (°C) | Device Marking | Samples |
|-------------------|--------|--------------|---------|------|---------|--------------|---------------|--------------------|--------------|-----------------------|---------|
| | (1) | | Drawing | | Qty | (2) | Ball material | (3) | | (4/5) | |
| | | | | | | | (6) | | | | |
| SN74AUC2G86DCTR | ACTIVE | SM8 | DCT | 8 | 3000 | RoHS & Green | NIPDAU SN | Level-1-260C-UNLIM | -40 to 85 | (2XF5, U86) (R, Z) | Samples |
| SN74AUC2G86DCUR | ACTIVE | VSSOP | DCU | 8 | 3000 | RoHS & Green | NIPDAU SN | Level-1-260C-UNLIM | -40 to 85 | (U86Q, U86R) | Samples |
| SN74AUC2G86DCURG4 | ACTIVE | VSSOP | DCU | 8 | 3000 | RoHS & Green | NIPDAU | Level-1-260C-UNLIM | -40 to 85 | U86R | Samples |
| SN74AUC2G86YZPR | ACTIVE | DSBGA | YZP | 8 | 3000 | RoHS & Green | SNAGCU | Level-1-260C-UNLIM | -40 to 85 | UHN | 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 finish/Ball material - Orderable Devices 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.

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PACKAGE MATERIALS INFORMATION

Texas Instruments

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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 |
| SN74AUC2G86DCTR | SM8 | DCT | 8 | 3000 | 177.8 | 12.4 | 3.45 | 4.4 | 1.45 | 4.0 | 12.0 | Q3 |
| SN74AUC2G86DCTR | SM8 | DCT | 8 | 3000 | 180.0 | 13.0 | 3.35 | 4.5 | 1.55 | 4.0 | 12.0 | Q3 |
| SN74AUC2G86DCUR | VSSOP | DCU | 8 | 3000 | 180.0 | 8.4 | 2.25 | 3.35 | 1.05 | 4.0 | 8.0 | Q3 |
| SN74AUC2G86DCUR | VSSOP | DCU | 8 | 3000 | 178.0 | 9.5 | 2.25 | 3.35 | 1.05 | 4.0 | 8.0 | Q3 |
| SN74AUC2G86DCURG4 | VSSOP | DCU | 8 | 3000 | 180.0 | 8.4 | 2.25 | 3.35 | 1.05 | 4.0 | 8.0 | Q3 |
| SN74AUC2G86YZPR | DSBGA | YZP | 8 | 3000 | 178.0 | 9.2 | 1.02 | 2.02 | 0.63 | 4.0 | 8.0 | Q1 |



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PACKAGE MATERIALS INFORMATION

27-May-2021



*All dimensions are nominal

| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
|-------------------|--------------|-----------------|------|------|-------------|------------|-------------|
| SN74AUC2G86DCTR | SM8 | DCT | 8 | 3000 | 183.0 | 183.0 | 20.0 |
| SN74AUC2G86DCTR | SM8 | DCT | 8 | 3000 | 182.0 | 182.0 | 20.0 |
| SN74AUC2G86DCUR | VSSOP | DCU | 8 | 3000 | 202.0 | 201.0 | 28.0 |
| SN74AUC2G86DCUR | VSSOP | DCU | 8 | 3000 | 202.0 | 201.0 | 28.0 |
| SN74AUC2G86DCURG4 | VSSOP | DCU | 8 | 3000 | 202.0 | 201.0 | 28.0 |
| SN74AUC2G86YZPR | DSBGA | YZP | 8 | 3000 | 220.0 | 220.0 | 35.0 |

DCU0008A



PACKAGE OUTLINE

VSSOP - 0.9 mm max height

SMALL OUTLINE PACKAGE



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. 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. Reference JEDEC registration MO-187 variation CA.



DCU0008A

EXAMPLE BOARD LAYOUT

VSSOP - 0.9 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

5. Publication IPC-7351 may have alternate designs.

6. Solder mask tolerances between and around signal pads can vary based on board fabrication site.



DCU0008A

EXAMPLE STENCIL DESIGN

VSSOP - 0.9 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

8. Board assembly site may have different recommendations for stencil design.



^{7.} Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.

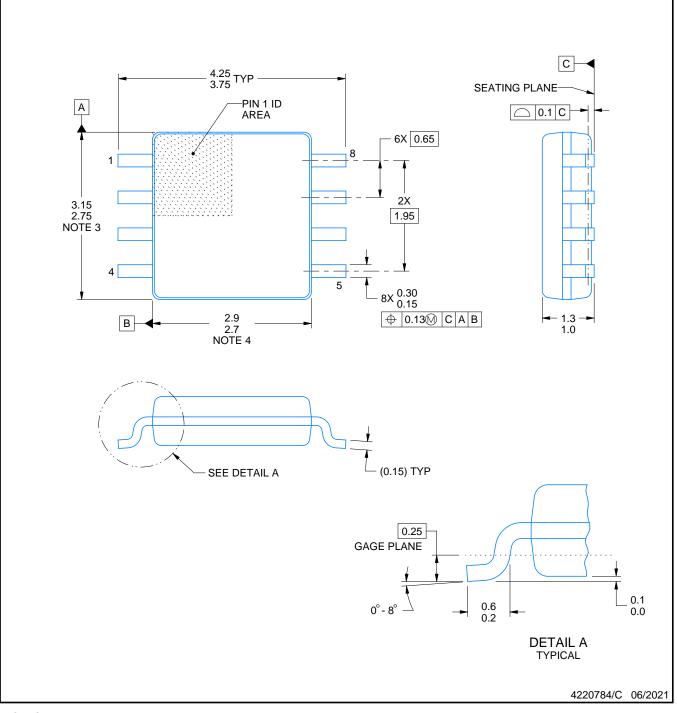
DCT0008A



PACKAGE OUTLINE

SSOP - 1.3 mm max height

SMALL OUTLINE PACKAGE



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 0.25 mm per side.

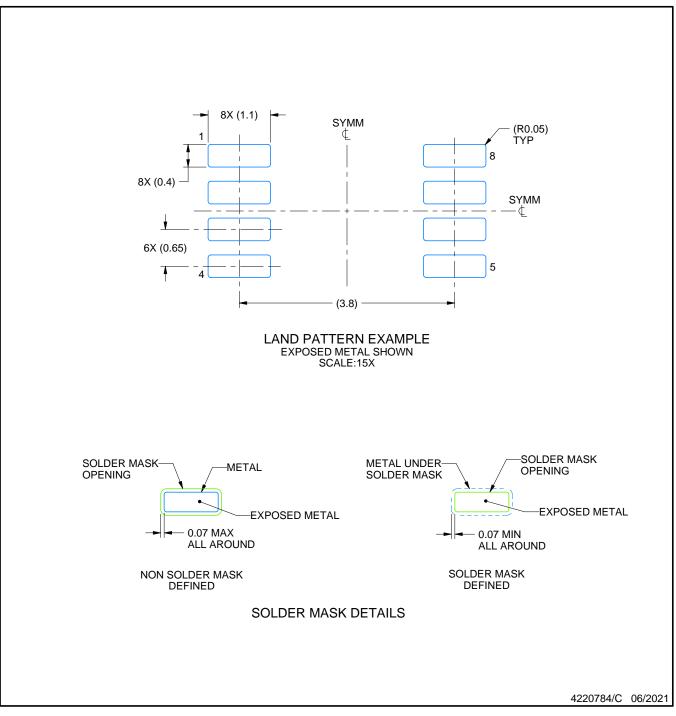


DCT0008A

EXAMPLE BOARD LAYOUT

SSOP - 1.3 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

Publication IPC-7351 may have alternate designs.
Solder mask tolerances between and around signal pads can vary based on board fabrication site.



DCT0008A

EXAMPLE STENCIL DESIGN

SSOP - 1.3 mm max height

SMALL OUTLINE PACKAGE



NOTES: (continued)

8. Board assembly site may have different recommendations for stencil design.



^{7.} Laser cutting apertures with trapezoidal walls and rounded corners may offer better paste release. IPC-7525 may have alternate design recommendations.

YZP0008



PACKAGE OUTLINE

DSBGA - 0.5 mm max height

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.



YZP0008

EXAMPLE BOARD LAYOUT

DSBGA - 0.5 mm max height

DIE SIZE BALL GRID ARRAY



NOTES: (continued)

3. Final dimensions may vary due to manufacturing tolerance considerations and also routing constraints. For more information, see Texas Instruments literature number SNVA009 (www.ti.com/lit/snva009).



YZP0008

EXAMPLE STENCIL DESIGN

DSBGA - 0.5 mm max height

DIE SIZE BALL GRID ARRAY



NOTES: (continued)

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



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