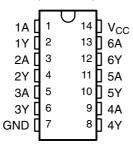
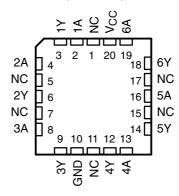
- 2-V to 6-V V_{CC} Operation
- Inputs Accept Voltages to 6 V
- Max t_{pd} of 7 ns at 5 V

SN54AC04 . . . J OR W PACKAGE SN74AC04 . . . D, DB, N, NS, OR PW PACKAGE (TOP VIEW)



SN54AC04...FK PACKAGE (TOP VIEW)



NC - No internal connection

description/ordering information

The 'AC04 devices contain six independent inverters. The devices perform the Boolean function $Y = \overline{A}$.

ORDERING INFORMATION

| T _A | PACKAGI | Εţ | ORDERABLE PART NUMBER | TOP-SIDE MARKING |
|----------------|------------|---------------|--------------------------|---------------------|
| | PDIP – N | Tube | SN74AC04N | SN74AC04N |
| | 0010 D | Tube | SN74AC04D | 1001 |
| –40°C to 85°C | SOIC - D | Tape and reel | SN74AC04DR | AC04 |
| | SOP - NS | Tape and reel | SN74AC04NSR | AC04 |
| | SSOP – DB | Tape and reel | SN74AC04DBR | AC04 |
| | TOCOD DW | Tube | SN74AC04PW | 1004 |
| | TSSOP – PW | Tape and reel | SN74AC04PWR | AC04 |
| | CDIP – J | Tube | SNJ54AC04J | SNJ54AC04J |
| -55°C to 125°C | CFP – W | Tube | SNJ54AC04W | SNJ54AC04W |
| | LCCC - FK | Tube | SNJ54AC04FK | SNJ54AC04FK |

[†] Package drawings, standard packing quantities, thermal data, symbolization, and PCB design guidelines are available at www.ti.com/sc/package.

FUNCTION TABLE (each inverter)

| INPUT A | OUTPUT Y |
|------------|-------------|
| Н | L |
| L | Н |



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, each inverter (positive logic)



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

| Supply voltage range, V _{CC} | | –0.5 V to 7 V |
|---|-------------|--|
| Input voltage range, V _I (see Note 1) | | $-0.5 \text{ V to V}_{CC} + 0.5 \text{ V}$ |
| Output voltage range, V _O (see Note 1) | | $-0.5 \text{ V to V}_{CC} + 0.5 \text{ V}$ |
| Input clamp current, I_{IK} ($V_I < 0$ or $V_I > V_{CC}$) | | ±20 mA |
| Output clamp current, IOK (VO < 0 or VO > VCC) |) | ±20 mA |
| Continuous output current, $I_O(V_O = 0 \text{ to } V_{CC})$ | | ±50 mA |
| Continuous current through V _{CC} or GND | | ±200 mA |
| Package thermal impedance, θ _{JA} (see Note 2): | : D package | 86°C/W |
| | DB package | 96°C/W |
| | N package | 80°C/W |
| | NS package | |
| | PW package | 113°C/W |
| Storage temperature range, T _{stq} | | –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. The input and output voltage ratings may be exceeded if the input and output current ratings are observed.

2. The package thermal impedance is calculated in accordance with JESD 51-7.

recommended operating conditions (see Note 3)

| | | | SN54 | AC04 | SN74 | AC04 | UNUT |
|-----------------|------------------------------------|--------------------------|------|----------|------|----------|------|
| | | | MIN | MAX | MIN | MAX | UNIT |
| V_{CC} | Supply voltage | | 2 | 6 | 2 | 6 | V |
| | | V _{CC} = 3 V | 2.1 | | 2.1 | | |
| V_{IH} | High-level input voltage | $V_{CC} = 4.5 \text{ V}$ | 3.15 | | 3.15 | | V |
| | | $V_{CC} = 5.5 \text{ V}$ | 3.85 | | 3.85 | | |
| | | V _{CC} = 3 V | | 0.9 | | 0.9 | |
| V_{IL} | Low-level input voltage | $V_{CC} = 4.5 \text{ V}$ | | 1.35 | | 1.35 | V |
| | | V _{CC} = 5.5 V | | 1.65 | | 1.65 | |
| VI | Input voltage | • | 0 | V_{CC} | 0 | V_{CC} | V |
| Vo | Output voltage | | 0 | V_{CC} | 0 | V_{CC} | V |
| | | V _{CC} = 3 V | | -12 | | -12 | |
| l _{OH} | High-level output current | $V_{CC} = 4.5 \text{ V}$ | | -24 | | -24 | mA |
| | | $V_{CC} = 5.5 \text{ V}$ | | -24 | | -24 | |
| | | V _{CC} = 3 V | | 12 | | 12 | |
| I_{OL} | Low-level output current | $V_{CC} = 4.5 \text{ V}$ | | 24 | | 24 | mA |
| | | $V_{CC} = 5.5 \text{ V}$ | | 24 | | 24 | |
| Δt/Δν | Input transition rise or fall rate | | | 8 | | 8 | ns/V |
| T _A | Operating free-air temperature | | -55 | 125 | -40 | 85 | °C |

NOTE 3: 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)

| DADAMETED | TEST COMPLETIONS | ., | T | _A = 25°C | ; | SN54 | AC04 | SN74/ | AC04 | | |
|-----------------|---|-----------------|------|---------------------|------|------|------|-------|------|------|--|
| PARAMETER | TEST CONDITIONS | v _{cc} | MIN | TYP | MAX | MIN | MAX | MIN | MAX | UNIT | |
| | | 3 V | 2.9 | 2.99 | | 2.9 | | 2.9 | | | |
| | $I_{OH} = -50 \mu A$ | 4.5 V | 4.4 | 4.49 | | 4.4 | | 4.4 | | | |
| | | 5.5 V | 5.4 | 5.49 | | 5.4 | | 5.4 | | | |
| | I _{OH} = -12 mA | 3 V | 2.56 | | | 2.4 | | 2.46 | | ., | |
| V _{OH} | | 4.5 V | 3.86 | | | 3.7 | | 3.76 | | V | |
| | $I_{OH} = -24 \text{ mA}$ | 5.5 V | 4.86 | | | 4.7 | | 4.76 | | | |
| | $I_{OH} = -50 \text{ mA}^{\dagger}$ | 5.5 V | | | | 3.85 | | | | | |
| | $I_{OH} = -75 \text{ mA}^{\dagger}$ | 5.5 V | | | | | | 3.85 | | | |
| | | 3 V | | 0.002 | 0.1 | | 0.1 | | 0.1 | | |
| | $I_{OL} = 50 \mu A$ | 4.5 V | | 0.001 | 0.1 | | 0.1 | | 0.1 | | |
| | | 5.5 V | | 0.001 | 0.1 | | 0.1 | | 0.1 | | |
| V | I _{OL} =12 mA | 3 V | | | 0.36 | | 0.5 | | 0.44 | ., | |
| V _{OL} | | 4.5 V | | | 0.36 | | 0.5 | | 0.44 | V | |
| | I _{OL} = 24 mA | 5.5 V | | | 0.36 | | 0.5 | | 0.44 | | |
| | $I_{OL} = 50 \text{ mA}^{\dagger}$ | 5.5 V | | | | | 1.65 | | | | |
| | $I_{OL} = 75 \text{ mA}^{\dagger}$ | 5.5 V | | | | | | | 1.65 | | |
| I ₁ | V _I = V _{CC} or GND | 5.5 V | | | ±0.1 | | ±1 | | ±1 | μΑ | |
| I _{CC} | $V_I = V_{CC}$ or GND, $I_O = 0$ | 5.5 V | | | 2 | | 40 | | 20 | μΑ | |
| C _i | V _I = V _{CC} or GND | | | 2.8 | | | | | | pF | |

[†] Not more than one output should be tested at a time, and the duration of the test should not exceed 2 ms.

switching characteristics over recommended operating free-air temperature range, V_{CC} = 3.3 V \pm 0.3 V (unless otherwise noted) (see Figure 1)

| DADAMETED | FROM | то | T _A = 25°C | | | SN54 | AC04 | SN74 | | |
|------------------|---------|----------|-----------------------|-----|-----|------|------|------|-----|------|
| PARAMETER | (INPUT) | (OUTPUT) | MIN | TYP | MAX | MIN | MAX | MIN | MAX | UNIT |
| t _{PLH} | ^ | Y | 1.5 | 4.5 | 9 | 1 | 11 | 1 | 10 | 20 |
| t _{PHL} | A | | 1.5 | 4.5 | 8.5 | 1 | 10 | 1 | 9.5 | ns |

switching characteristics over recommended operating free-air temperature range, V_{CC} = 5 V \pm 0.5 V (unless otherwise noted) (see Figure 1)

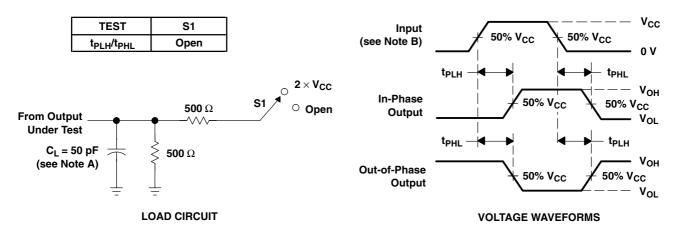
| PARAMETER | | FROM | то | T, | ₄ = 25°C | ; | SN54 | AC04 | SN74 | AC04 | LINUT |
|------------------|-----|---------|----------|-----|---------------------|-----|------|------|------|------|-------|
| PARAME | IEK | (INPUT) | (OUTPUT) | MIN | TYP | MAX | MIN | MAX | MIN | MAX | UNIT |
| t _{PLH} | | Δ. | V | 1.5 | 4 | 7 | 1 | 8.5 | 1 | 7.5 | ne |
| t _{PHL} | | ^ | T | 1.5 | 3.5 | 6.5 | 1 | 7.5 | 1 | 7 | ns |

operating characteristics, $V_{CC} = 5 \text{ V}$, $T_A = 25^{\circ}\text{C}$

| PARAMETER | TEST CONDITIONS | TYP | UNIT |
|---|--|-----|------|
| C _{pd} Power dissipation capacitance | $C_L = 50 \text{ pF}, \qquad \qquad f = 1 \text{ MHz}$ | 45 | pF |



PARAMETER MEASUREMENT INFORMATION



NOTES: A. C_L includes probe and jig capacitance.

- B. All input pulses are supplied by generators having the following characteristics: PRR \leq 1 MHz, $Z_0 = 50 \Omega$, $t_r \leq 2.5$ ns, $t_f \leq 2.5$ ns.
- C. The outputs are measured one at a time with one input transition per measurement.

Figure 1. Load Circuit and Voltage Waveforms





25-Oct-2016

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 |
|------------------|----------|--------------|--------------------|------|----------------|----------------------------|------------------|--------------------|--------------|---------------------------------------|---------|
| 5962-87609012A | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | -55 to 125 | 5962- 87609012A SNJ54AC 04FK | Samples |
| 5962-8760901CA | ACTIVE | CDIP | J | 14 | 1 | TBD | A42 | N / A for Pkg Type | -55 to 125 | 5962-8760901CA SNJ54AC04J | Samples |
| 5962-8760901DA | ACTIVE | CFP | W | 14 | 1 | TBD | A42 | N / A for Pkg Type | -55 to 125 | 5962-8760901DA SNJ54AC04W | Samples |
| SN74AC04D | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04DBLE | OBSOLETE | SSOP | DB | 14 | | TBD | Call TI | Call TI | -40 to 85 | | |
| SN74AC04DBR | ACTIVE | SSOP | DB | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04DE4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04DG4 | ACTIVE | SOIC | D | 14 | 50 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04DR | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04DRE4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04DRG4 | ACTIVE | SOIC | D | 14 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04N | ACTIVE | PDIP | N | 14 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | -40 to 85 | SN74AC04N | Samples |
| SN74AC04NE4 | ACTIVE | PDIP | N | 14 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | -40 to 85 | SN74AC04N | Samples |
| SN74AC04NSR | ACTIVE | SO | NS | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04PW | ACTIVE | TSSOP | PW | 14 | 90 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04PWLE | OBSOLETE | TSSOP | PW | 14 | | TBD | Call TI | Call TI | -40 to 85 | | |
| SN74AC04PWR | ACTIVE | TSSOP | PW | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |



PACKAGE OPTION ADDENDUM

25-Oct-2016

| 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 |
|------------------|--------|--------------|--------------------|------|----------------|----------------------------|----------------------|--------------------|--------------|---------------------------------------|---------|
| SN74AC04PWRE4 | ACTIVE | TSSOP | PW | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SN74AC04PWRG4 | ACTIVE | TSSOP | PW | 14 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | -40 to 85 | AC04 | Samples |
| SNJ54AC04FK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | -55 to 125 | 5962- 87609012A SNJ54AC 04FK | Samples |
| SNJ54AC04J | ACTIVE | CDIP | J | 14 | 1 | TBD | A42 | N / A for Pkg Type | -55 to 125 | 5962-8760901CA SNJ54AC04J | Samples |
| SNJ54AC04W | ACTIVE | CFP | W | 14 | 1 | TBD | A42 | N / A for Pkg Type | -55 to 125 | 5962-8760901DA SNJ54AC04W | 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⁾ 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.



PACKAGE OPTION ADDENDUM

25-Oct-2016

(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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OTHER QUALIFIED VERSIONS OF SN54AC04, SN74AC04:

Catalog: SN74AC04

Automotive: SN74AC04-Q1, SN74AC04-Q1

Enhanced Product: SN74AC04-EP, SN74AC04-EP

Military: SN54AC04

NOTE: Qualified Version Definitions:

- Catalog TI's standard catalog product
- Automotive Q100 devices qualified for high-reliability automotive applications targeting zero defects
- Enhanced Product Supports Defense, Aerospace and Medical Applications
- Military QML certified for Military and Defense Applications

PACKAGE MATERIALS INFORMATION

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TAPE AND REEL INFORMATION





| _ | | |
|---|----|---|
| | | Dimension designed to accommodate the component width |
| | | Dimension designed to accommodate the component length |
| | | Dimension designed to accommodate the component thickness |
| | W | Overall width of the carrier tape |
| Г | P1 | Pitch between successive cavity centers |

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

| All difficults 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 |
| SN74AC04DBR | SSOP | DB | 14 | 2000 | 330.0 | 16.4 | 8.2 | 6.6 | 2.5 | 12.0 | 16.0 | Q1 |
| SN74AC04DR | SOIC | D | 14 | 2500 | 330.0 | 16.4 | 6.5 | 9.0 | 2.1 | 8.0 | 16.0 | Q1 |
| SN74AC04PWR | TSSOP | PW | 14 | 2000 | 330.0 | 12.4 | 6.9 | 5.6 | 1.6 | 8.0 | 12.0 | Q1 |

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*All dimensions are nominal

| 7 til difficiono dio ficininal | | | | | | | |
|--------------------------------|--------------|-----------------|------|------|-------------|------------|-------------|
| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
| SN74AC04DBR | SSOP | DB | 14 | 2000 | 367.0 | 367.0 | 38.0 |
| SN74AC04DR | SOIC | D | 14 | 2500 | 367.0 | 367.0 | 38.0 |
| SN74AC04PWR | TSSOP | PW | 14 | 2000 | 367.0 | 367.0 | 35.0 |

FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a metal lid.
- D. Falls within JEDEC MS-004



MECHANICAL DATA

NS (R-PDSO-G**)

14-PINS SHOWN

PLASTIC SMALL-OUTLINE PACKAGE



- 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, not to exceed 0,15.



D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Body length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0.006 (0,15) each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0.017 (0,43) each side.
- E. Reference JEDEC MS-012 variation AB.



D (R-PDSO-G14)

PLASTIC SMALL OUTLINE



- 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.



PW (R-PDSO-G14)

PLASTIC SMALL OUTLINE



- A. All linear dimensions are in millimeters. Dimensioning and tolerancing per ASME Y14.5M—1994.
- B. This drawing is subject to change without notice.
 - Sody length does not include mold flash, protrusions, or gate burrs. Mold flash, protrusions, or gate burrs shall not exceed 0,15 each side.
- Body width does not include interlead flash. Interlead flash shall not exceed 0,25 each side.
- E. Falls within JEDEC MO-153



PW (R-PDSO-G14)

PLASTIC SMALL OUTLINE



- 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.



N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

16 PINS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- Falls within JEDEC MS-001, except 18 and 20 pin minimum body length (Dim A).
- The 20 pin end lead shoulder width is a vendor option, either half or full width.



DB (R-PDSO-G**)

PLASTIC SMALL-OUTLINE

28 PINS SHOWN



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 not to exceed 0,15.

D. Falls within JEDEC MO-150

14 LEADS SHOWN



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package is hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only on press ceramic glass frit seal only.
- E. Falls within MIL STD 1835 GDIP1-T14, GDIP1-T16, GDIP1-T18 and GDIP1-T20.

W (R-GDFP-F14)

CERAMIC DUAL FLATPACK



- A. All linear dimensions are in inches (millimeters).
- B. This drawing is subject to change without notice.
- C. This package can be hermetically sealed with a ceramic lid using glass frit.
- D. Index point is provided on cap for terminal identification only.
- E. Falls within MIL STD 1835 GDFP1-F14



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