

SN54LS257B, SN54LS258B, SN54S257, SN54S258 SN74LS257B, SN74LS258B, SN74S257, SN74S258 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

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- Three-State Outputs Interface Directly with System Bus
- 'LS257B and 'LS258B Offer Three Times the Sink-Current Capability of the Original 'LS257 and 'LS258
- Same Pin Assignments as SN54LS157, SN74LS157, SN54S157, SN74S157, and SN54LS158, SN74LS158, SN54S158, SN74S158
- Provides Bus Interface from Multiple Sources in High-Performance Systems

SN54LS257B, SN54S257,
SN54LS258B, SN54S258 . . . J OR W PACKAGE
SN74LS257B, SN74S257,
SN74LS258B, SN74S258 . . . D OR N PACKAGE
(TOP VIEW)



| | AVERAGE PROPAGATION DELAY FROM DATA INPUT | TYPICAL POWER DISSIPATION† |
|---------|---|----------------------------------|
| 'LS257B | 9 ns | 55 mW |
| 'LS258B | 9 ns | 55 mW |
| 'S257 | 4.8 ns | 320 mW |
| 'S258 | 4 ns | 280 mW |

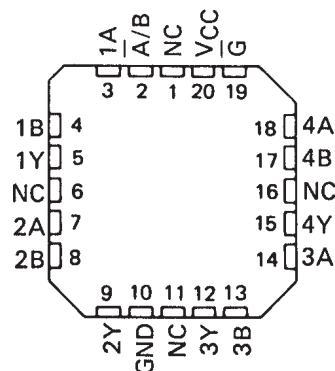
† Off state (worst case)

description

These devices are designed to multiplex signals from four-bit data sources to four-output data lines in bus-organized systems. The 3-state outputs will not load the data lines when the output control pin (\bar{G}) is at a high-logic level.

Series 54LS and 54S are characterized for operation over the full military temperature range of -55°C to 125°C ; Series 74LS and 74S are characterized for operation from 0°C to 70°C .

SN54LS257B, SN54S257,
SN54LS258B, SN54S258 . . . FK PACKAGE
(TOP VIEW)



NC-No internal connection.

FUNCTION TABLE

| OUTPUT CONTROL | INPUTS | | OUTPUT Y | | |
|----------------|--------|---|----------|------------------|------------------|
| | SELECT | A | B | 'LS257B 'S257 | 'LS258B 'S258 |
| | | H | X | X | Z |
| L | L | L | X | L | H |
| L | L | H | X | H | L |
| L | H | X | L | L | H |
| L | H | X | H | H | L |

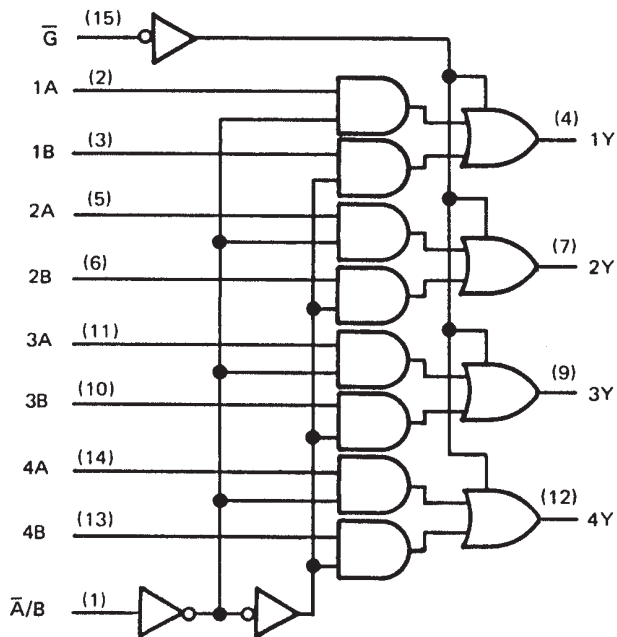
H = high level, L = low level, X = irrelevant,
Z = high impedance (off)

SN54LS257B, SN54LS258B, SN54S257, SN54S258
 SN74LS257B, SN74LS258B, SN74S257, SN74S258
QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

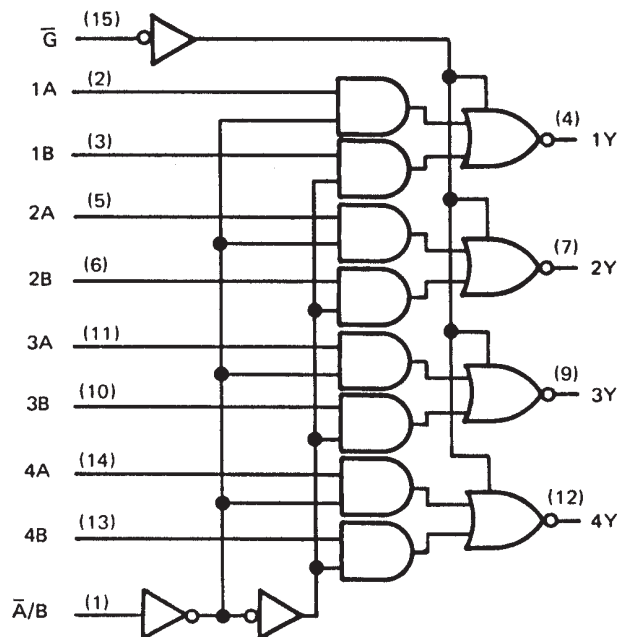
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logic diagrams (positive logic)

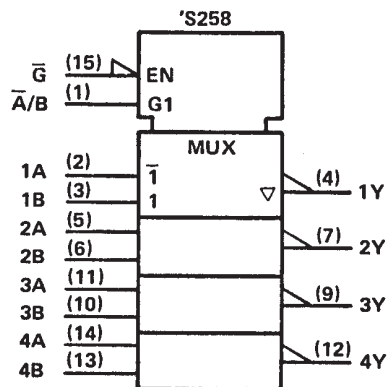
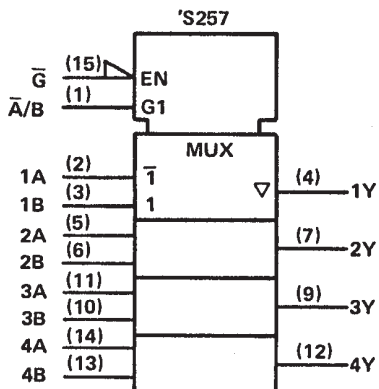
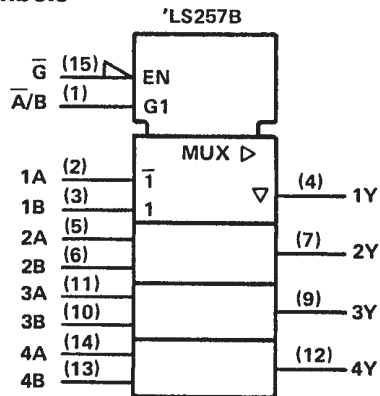
'LS257B, 'S257



'LS258B, 'S258



logic symbols†

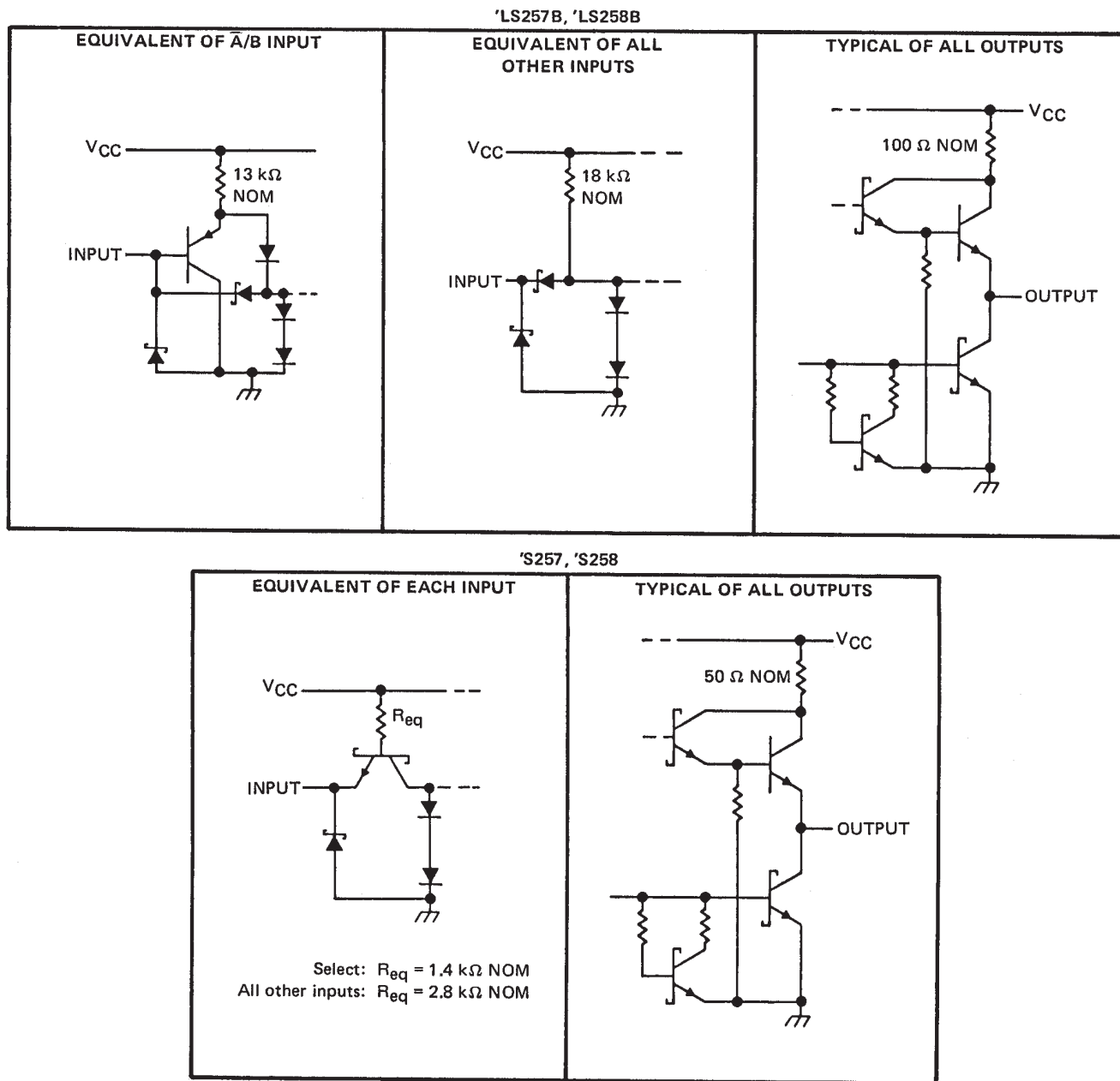


†These symbols are in accordance with ANSI/IEEE Std 91-1984 and IEC Publication 617-12. Pin numbers shown are for D, J, N, and W packages.

SN54LS257B, SN54LS258B, SN54S257, SN54S258 SN74LS257B, SN74LS258B, SN74S257, SN74S258 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

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schematics of inputs and outputs



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

| | |
|--|--|
| Supply voltage, V_{CC} (see Note 1) | 7 V |
| Input voltage: 'LS257B, 'LS258B Circuits | 7 V |
| 'S257, 'S258 Circuits | 5.5 V |
| Off-state output voltage | 5.5 V |
| Operating free-air temperature range: SN54LS', SN54S' Circuits | -55°C to 125°C |
| SN74LS', SN74S' Circuits | 0°C to 70°C |
| Storage temperature range | -65°C to 150°C |

NOTE 1: Voltage values are with respect to network ground terminal.

**SN54LS257B, SN54LS258B, SN54S257, SN54S258
SN74LS257B, SN74LS258B, SN74S257, SN74S258
QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS**

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recommended operating conditions

| | SN54LS' | | | SN74LS' | | | UNIT |
|---|---------|-----|-----|---------|-----|------|------|
| | MIN | NOM | MAX | MIN | NOM | MAX | |
| V _{CC} Supply voltage | 4.5 | 5 | 5.5 | 4.75 | 5 | 5.25 | V |
| V _{IH} High-level input voltage | 2 | | | 2 | | | V |
| V _{IL} Low-level input voltage | | | 0.7 | | | 0.8 | V |
| I _{OH} High-level output current | | | -1 | | | -2.6 | mA |
| I _{OL} Low-level output current | | | 12 | | | 24 | mA |
| T _A Operating free-air temperature | -55 | | 125 | 0 | | 70 | °C |

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

| PARAMETER | TEST CONDITIONS† | SN54LS' | | | SN74LS' | | | UNIT |
|-------------------|--|-----------------------------------|---------|------|---------|------|------|------|
| | | MIN | TYP‡ | MAX | MIN | TYP‡ | MAX | |
| V _{IK} | V _{CC} = MIN, I _I = -18 mA | | | -1.5 | | | -1.5 | V |
| V _{OH} | V _{CC} = MIN, V _{IH} = 2 V, V _{IL} = MAX, I _{OH} = MAX | 2.4 | 3.4 | | 2.4 | 3.1 | | V |
| V _{OL} | V _{CC} = MIN, V _{IH} = 2 V, V _{IL} = MAX, I _{OL} = 12 mA | | | 0.25 | 0.4 | | | V |
| | | | | | | 0.35 | 0.5 | |
| I _{OZH} | V _{CC} = MAX, V _{IH} = 2 V, V _O = 2.7 V | | | | 20 | | | μA |
| I _{OZL} | V _{CC} = MAX, V _{IH} = 2 V, V _O = 0.4 V | | | | -20 | | | μA |
| I _I | V _{CC} = MAX, V _I = 7 V | | | | 0.1 | | | mA |
| I _{IH} | V _{CC} = MAX, V _I = 2.7 V | | | | 20 | | | μA |
| I _{IL} | V _{CC} = MAX, V _I = 0.4 V | | | | -0.4 | | | mA |
| I _{OS} § | V _{CC} = MAX, | -30 | | -130 | -30 | | -130 | mA |
| I _{CC} | All outputs high | V _{CC} = MAX, See Note 2 | 'LS257B | 8 | 12 | 8 | 12 | mA |
| | All outputs low | | | 12 | 18 | 12 | 18 | |
| | All outputs off | | 13 | 19 | 13 | 19 | | |
| | All outputs high | | 'LS258B | 6 | 9 | 6 | 9 | |
| | All outputs low | | | 10 | 15 | 10 | 15 | |
| | All outputs off | | | 11 | 16 | 11 | 16 | |

† For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

‡ All typical values are at V_{CC} = 5 V, T_A = 25°C.

§ Not more than one output should be shorted at a time and duration of the short-circuit should not exceed one second.

NOTE 2: I_{CC} is measured with all outputs open and all possible inputs grounded while achieving the stated output conditions.

switching characteristics, V_{CC} = 5 V, T_A = 25°C, R_L = 667 Ω

| PARAMETER¶ | FROM (INPUT) | TO (OUTPUT) | TEST CONDITIONS | 'LS257B | | | 'LS258B | | | UNIT |
|------------------|----------------|-------------|------------------------------------|---------|-----|-----|---------|-----|-----|------|
| | | | | MIN | TYP | MAX | MIN | TYP | MAX | |
| t _{PLH} | Data | Any | C _L = 45 pF, See Note 3 | 8 | 13 | 7 | 12 | ns | | |
| t _{PHL} | | | | 10 | 15 | 11 | 17 | | | |
| t _{PLH} | Select | Any | | 16 | 21 | 14 | 21 | | | |
| t _{PHL} | | | | 17 | 24 | 19 | 24 | | | |
| t _{PZH} | Output Control | Any | | 15 | 30 | 15 | 30 | | ns | |
| t _{PZL} | | | | 19 | 30 | 20 | 30 | | | |
| t _{PHZ} | Output Control | Any | C _L = 5 pF, See Note 3 | 18 | 30 | 18 | 30 | ns | | |
| t _{PLZ} | | | 16 | 25 | 16 | 25 | | | | |

¶ t_{PLH} = propagation delay time, low-to-high-level output

t_{PHL} = propagation delay time, high-to-low-level output

t_{PZH} = output enable time to high level

t_{PZL} = output enable time to low level

t_{PHZ} = output disable time from high level

t_{PLZ} = output disable time from low level

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.



SN54LS257B, SN54LS258B, SN54S257, SN54S258 SN74LS257B, SN74LS258B, SN74S257, SN74S258 QUADRUPLE 2-LINE TO 1-LINE DATA SELECTORS/MULTIPLEXERS

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recommended operating conditions

| | SN54S' | | | SN74S' | | | UNIT |
|---------------------------------------|--------|-----|-----|--------|-----|------|------|
| | MIN | NOM | MAX | MIN | NOM | MAX | |
| Supply voltage, V_{CC} | 4.5 | 5 | 5.5 | 4.75 | 5 | 5.25 | V |
| High-level output current, I_{OH} | | | -2 | | | -6.5 | mA |
| Low-level output current, I_{OL} | | | 20 | | | 20 | mA |
| Operating free-air temperature, T_A | -55 | | 125 | 0 | | 70 | °C |

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

| PARAMETER | | TEST CONDITIONS† | 'S257 | | | 'S258 | | | UNIT | |
|-----------|--|---|--------|------|------|-------|------|------|------|----|
| | | | MIN | TYP‡ | MAX | MIN | TYP‡ | MAX | | |
| V_{IH} | High-level input voltage | | 2 | | | 2 | | | V | |
| V_{IL} | Low-level input voltage | | | | 0.8 | | | 0.8 | V | |
| V_{IK} | Input clamp voltage | $V_{CC} = \text{MIN}, I_I = -18 \text{ mA}$ | | | -1.2 | | | -1.2 | V | |
| V_{OH} | High-level output voltage | $V_{CC} = \text{MIN}, V_{IH} = 2 \text{ V}, V_{IL} = 0.8 \text{ V}, I_{OH} = -1 \text{ mA}$ | SN74S' | 2.7 | | 2.7 | | | V | |
| | | $V_{CC} = \text{MIN}, V_{IH} = 2 \text{ V}, V_{IL} = 0.8 \text{ V}, I_{OH} = \text{MAX}$ | SN54S' | 2.4 | 3.4 | 2.4 | 3.4 | | | |
| | | | SN74S' | 2.4 | 3.2 | 2.4 | 3.2 | | | |
| V_{OL} | Low-level output voltage | $V_{CC} = \text{MIN}, V_{IH} = 2 \text{ V}, V_{IL} = 0.8 \text{ V}, I_{OL} = 20 \text{ mA}$ | | | 0.5 | | | 0.5 | V | |
| I_{OZH} | Off-state output current, high-level voltage applied | $V_{CC} = \text{MAX}, V_{IH} = 2 \text{ V}, V_O = 2.4 \text{ V}$ | | | 50 | | | 50 | μA | |
| I_{OZL} | Off-state output current, low-level voltage applied | $V_{CC} = \text{MAX}, V_{IH} = 2 \text{ V}, V_O = 0.5 \text{ V}$ | | | -50 | | | -50 | μA | |
| I_I | Input current at maximum input voltage | $V_{CC} = \text{MAX}, V_I = 5.5 \text{ V}$ | | | 1 | | | 1 | mA | |
| I_{IH} | High-level input current | S input | | | 100 | | | 100 | μA | |
| | | Any other | | | 50 | | | 50 | | |
| I_{IL} | Low-level input current | S input | | | -4 | | | -4 | mA | |
| | | Any other | | | -2 | | | -2 | | |
| I_{OS} | Short-circuit output current§ | $V_{CC} = \text{MAX}$ | -40 | | -100 | -40 | | -100 | mA | |
| I_{CC} | Supply current | All outputs high | | | 44 | 68 | | 36 | 56 | mA |
| | | All outputs low | | | 60 | 93 | | 52 | 81 | |
| | | All outputs off | | | 64 | 99 | | 56 | 87 | |

† For conditions shown as MIN or MAX, use the appropriate value specified under recommended operating conditions.

‡ All typical values are at $V_{CC} = 5 \text{ V}, T_A = 25^\circ\text{C}$.

§ Not more than one output should be shorted at a time and duration of the short-circuit should not exceed one second.

NOTE 2: I_{CC} is measured with all outputs open and all possible inputs grounded while achieving the stated output conditions.

switching characteristics, $V_{CC} = 5 \text{ V}, T_A = 25^\circ\text{C}, R_L = 280 \Omega$

| PARAMETER¶ | FROM (INPUT) | TO (OUTPUT) | TEST CONDITIONS | 'S257 | | | 'S258 | | | UNIT |
|------------|--------------|-------------|--------------------------------------|-------|------|-----|-------|------|-----|------|
| | | | | MIN | TYP | MAX | MIN | TYP | MAX | |
| t_{PLH} | Data | Any | $C_L = 15 \text{ pF},$ See Note 3 | 5 | 7.5 | | 4 | 6 | ns | |
| t_{PHL} | | | | 4.5 | 6.5 | | 4 | 6 | | |
| t_{PLH} | Select | Any | | 8.5 | 15 | | 8 | 12 | ns | |
| t_{PHL} | | | | 8.5 | 15 | | 7.5 | 12 | | |
| t_{PZH} | Output | Any | | 13 | 19.5 | | 13 | 19.5 | ns | |
| t_{PZL} | Control | | | 14 | 21 | | 14 | 21 | | |
| t_{PHZ} | Output | Any | 5.5 | 8.5 | | 5.5 | 8.5 | ns | | |
| t_{PLZ} | Control | | 9 | 14 | | 9 | 14 | | | |

¶ f_{max} = Maximum clock frequency

t_{PLH} = propagation delay time, low-to-high-level output

t_{PHL} = propagation delay time, high-to-low-level output

t_{PZH} = output enable time to high level

t_{PZL} = output enable time to low level

t_{PHZ} = output disable time from high level

t_{PLZ} = output disable time from low level

NOTE 3: Load circuits and voltage waveforms are shown in Section 1.

PACKAGING INFORMATION

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/ Ball Finish | MSL Peak Temp ⁽³⁾ | Samples (Requires Login) |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|----------------------|------------------------------|----------------------------------|
| 5962-7603701VEA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 5962-7603701VFA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 5962-7603701VFA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 7603701EA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 7603701EA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 7603701FA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 7603701FA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 76038012A | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| 76038012A | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| 7603801EA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 7603801EA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 7603801FA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 7603801FA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 8002301EA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 8002301EA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 8002301FA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| 8002301FA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| JM38510/07906BEA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| JM38510/07906BEA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| JM38510/07906BFA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| JM38510/07906BFA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| JM38510/30906B2A | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| JM38510/30906B2A | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| JM38510/30906BEA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| JM38510/30906BEA | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| JM38510/30906BFA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| JM38510/30906BFA | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SN54LS257BJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SN54LS257BJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SN54LS258BJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/ Ball Finish | MSL Peak Temp ⁽³⁾ | Samples (Requires Login) |
|------------------|-----------------------|--------------|-----------------|------|-------------|----------------------------|----------------------|------------------------------|----------------------------------|
| SN54LS258BJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SN54S257J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SN54S257J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SN54S258J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SN54S258J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SN74LS257BD | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BD | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDE4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDE4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDG4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDG4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDR | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDR | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDRE4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDRE4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDRG4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BDRG4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BN | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Purchase Samples |
| SN74LS257BN | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Purchase Samples |
| SN74LS257BN3 | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74LS257BN3 | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74LS257BNE4 | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Purchase Samples |

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/ Ball Finish | MSL Peak Temp ⁽³⁾ | Samples (Requires Login) |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|----------------------|------------------------------|----------------------------------|
| SN74LS257BNE4 | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Purchase Samples |
| SN74LS257BNSR | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BNSR | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BNSRE4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BNSRE4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BNSRG4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS257BNSRG4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BD | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BD | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BDE4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BDE4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BDG4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BDG4 | ACTIVE | SOIC | D | 16 | 40 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BDR | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BDR | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BDRE4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BDRE4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BDRG4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/Ball Finish | MSL Peak Temp ⁽³⁾ | Samples (Requires Login) |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|------------------|------------------------------|----------------------------------|
| SN74LS258BDRG4 | ACTIVE | SOIC | D | 16 | 2500 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BN | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Purchase Samples |
| SN74LS258BN | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Purchase Samples |
| SN74LS258BN3 | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74LS258BN3 | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74LS258BNE4 | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Purchase Samples |
| SN74LS258BNE4 | ACTIVE | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Purchase Samples |
| SN74LS258BNSR | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BNSR | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BNSRE4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BNSRE4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BNSRG4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74LS258BNSRG4 | ACTIVE | SO | NS | 16 | 2000 | Green (RoHS & no Sb/Br) | CU NIPDAU | Level-1-260C-UNLIM | Purchase Samples |
| SN74S257N | NRND | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Samples Not Available |
| SN74S257N | NRND | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Samples Not Available |
| SN74S257N3 | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74S257N3 | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74S257NE4 | NRND | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Samples Not Available |
| SN74S257NE4 | NRND | PDIP | N | 16 | 25 | Pb-Free (RoHS) | CU NIPDAU | N / A for Pkg Type | Samples Not Available |
| SN74S258DR | OBSOLETE | SOIC | D | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74S258DR | OBSOLETE | SOIC | D | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74S258N | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74S258N | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74S258N3 | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74S258N3 | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SN74S258N3 | OBSOLETE | PDIP | N | 16 | | TBD | Call TI | Call TI | Samples Not Available |
| SNJ54LS257BFBK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |

| Orderable Device | Status ⁽¹⁾ | Package Type | Package Drawing | Pins | Package Qty | Eco Plan ⁽²⁾ | Lead/ Ball Finish | MSL Peak Temp ⁽³⁾ | Samples (Requires Login) |
|------------------|-----------------------|--------------|-----------------|------|-------------|-------------------------|----------------------|------------------------------|----------------------------------|
| SNJ54LS257BFK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| SNJ54LS257BJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54LS257BJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54LS257BW | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54LS257BW | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54LS258BFK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| SNJ54LS258BFK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| SNJ54LS258BJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54LS258BJ | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54LS258BW | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54LS258BW | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54S257FK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| SNJ54S257FK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| SNJ54S257J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54S257J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54S257W | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54S257W | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54S258FK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| SNJ54S258FK | ACTIVE | LCCC | FK | 20 | 1 | TBD | POST-PLATE | N / A for Pkg Type | Purchase Samples |
| SNJ54S258J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54S258J | ACTIVE | CDIP | J | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54S258W | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase Samples |
| SNJ54S258W | ACTIVE | CFP | W | 16 | 1 | TBD | A42 | N / A for Pkg Type | Purchase 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.

OBSELETE: 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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OTHER QUALIFIED VERSIONS OF SN54LS257B, SN54LS257B-SP, SN54LS258B, SN54S257, SN54S258, SN74LS257B, SN74LS258B, SN74S257, SN74S258 :

● Catalog: [SN74LS257B](#), [SN54LS257B](#), [SN74LS258B](#), [SN74S257](#), [SN74S258](#)

● Military: [SN54LS257B](#), [SN54LS258B](#), [SN54S257](#), [SN54S258](#)

● Space: [SN54LS257B-SP](#)

NOTE: Qualified Version Definitions:

- Catalog - TI's standard catalog product
- Military - QML certified for Military and Defense Applications
- Space - Radiation tolerant, ceramic packaging and qualified for use in Space-based application

TAPE AND REEL INFORMATION



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 |
|---------------|--------------|-----------------|------|------|--------------------|--------------------|---------|---------|---------|---------|--------|---------------|
| SN74LS257BDR | SOIC | D | 16 | 2500 | 330.0 | 16.4 | 6.5 | 10.3 | 2.1 | 8.0 | 16.0 | Q1 |
| SN74LS257BNSR | SO | NS | 16 | 2000 | 330.0 | 16.4 | 8.2 | 10.5 | 2.5 | 12.0 | 16.0 | Q1 |
| SN74LS258BDR | SOIC | D | 16 | 2500 | 330.0 | 16.4 | 6.5 | 10.3 | 2.1 | 8.0 | 16.0 | Q1 |
| SN74LS258BNSR | SO | NS | 16 | 2000 | 330.0 | 16.4 | 8.2 | 10.5 | 2.5 | 12.0 | 16.0 | Q1 |

TAPE AND REEL BOX DIMENSIONS

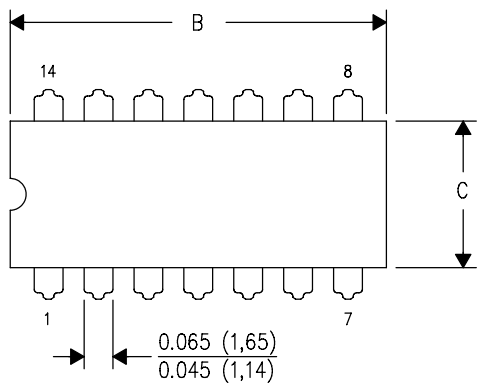


*All dimensions are nominal

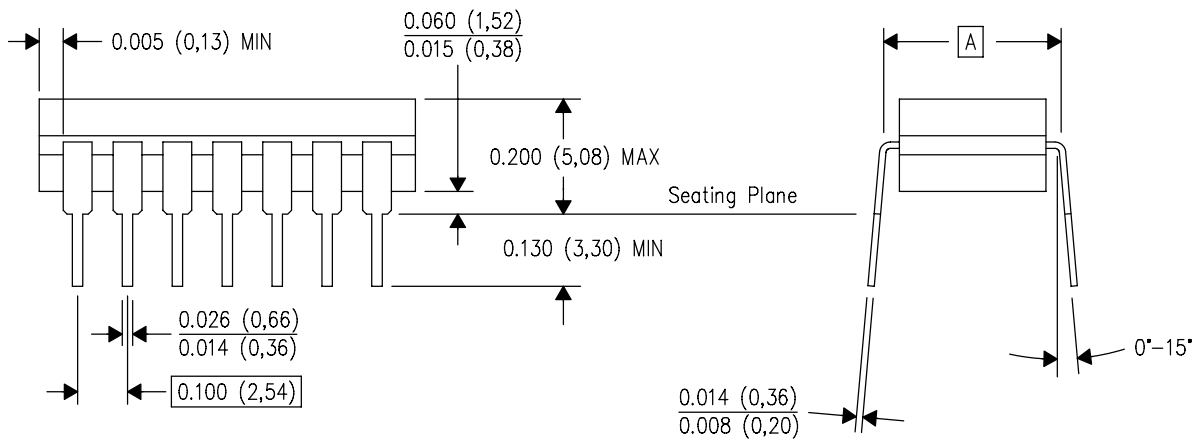
| Device | Package Type | Package Drawing | Pins | SPQ | Length (mm) | Width (mm) | Height (mm) |
|---------------|--------------|-----------------|------|------|-------------|------------|-------------|
| SN74LS257BDR | SOIC | D | 16 | 2500 | 333.2 | 345.9 | 28.6 |
| SN74LS257BNSR | SO | NS | 16 | 2000 | 346.0 | 346.0 | 33.0 |
| SN74LS258BDR | SOIC | D | 16 | 2500 | 333.2 | 345.9 | 28.6 |
| SN74LS258BNSR | SO | NS | 16 | 2000 | 346.0 | 346.0 | 33.0 |

J (R-GDIP-T**)
 14 LEADS SHOWN

CERAMIC DUAL IN-LINE PACKAGE



| DIM \ PINS ** | 14 | 16 | 18 | 20 |
|---------------|------------------------|------------------------|------------------------|------------------------|
| A | 0.300 (7,62) BSC | 0.300 (7,62) BSC | 0.300 (7,62) BSC | 0.300 (7,62) BSC |
| B MAX | 0.785 (19,94) | .840 (21,34) | 0.960 (24,38) | 1.060 (26,92) |
| B MIN | — | — | — | — |
| C MAX | 0.300 (7,62) | 0.300 (7,62) | 0.310 (7,87) | 0.300 (7,62) |
| C MIN | 0.245 (6,22) | 0.245 (6,22) | 0.220 (5,59) | 0.245 (6,22) |

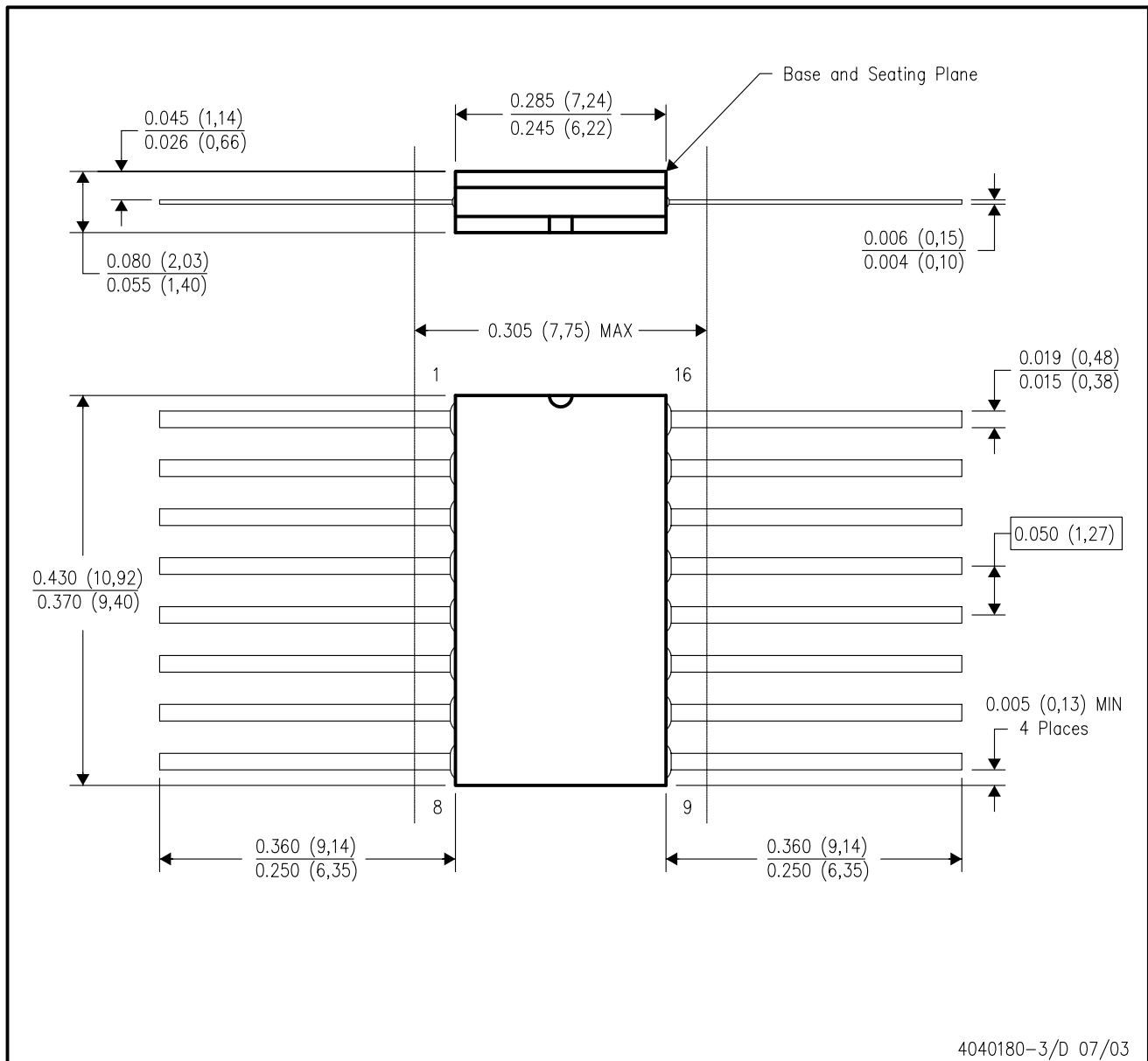


4040083/F 03/03

- NOTES:
- 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-F16)

CERAMIC DUAL FLATPACK

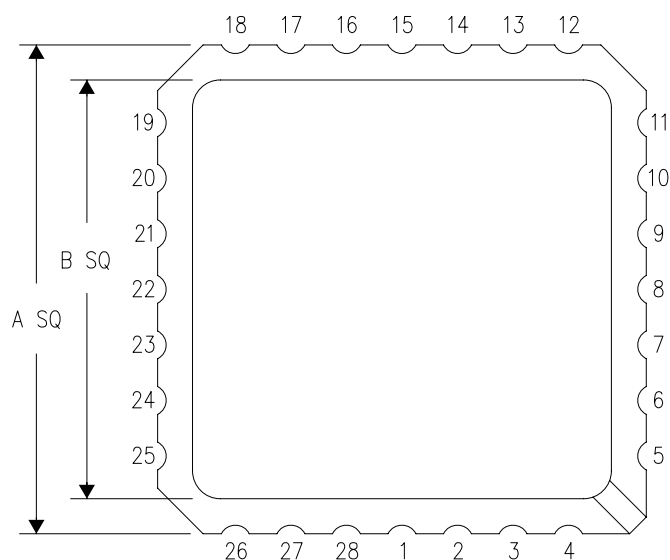


- NOTES:
- A. All linear dimensions are in inches (millimeters).
 - B. This drawing is subject to change without notice.
 - C. This package can be hermetically sealed with a ceramic lid using glass frit.
 - D. Index point is provided on cap for terminal identification only.
 - E. Falls within MIL STD 1835 GDFP1-F16 and JEDEC MO-092AC

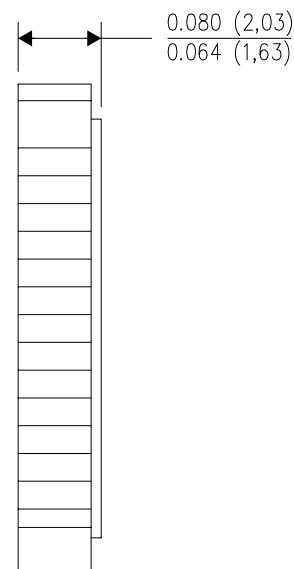
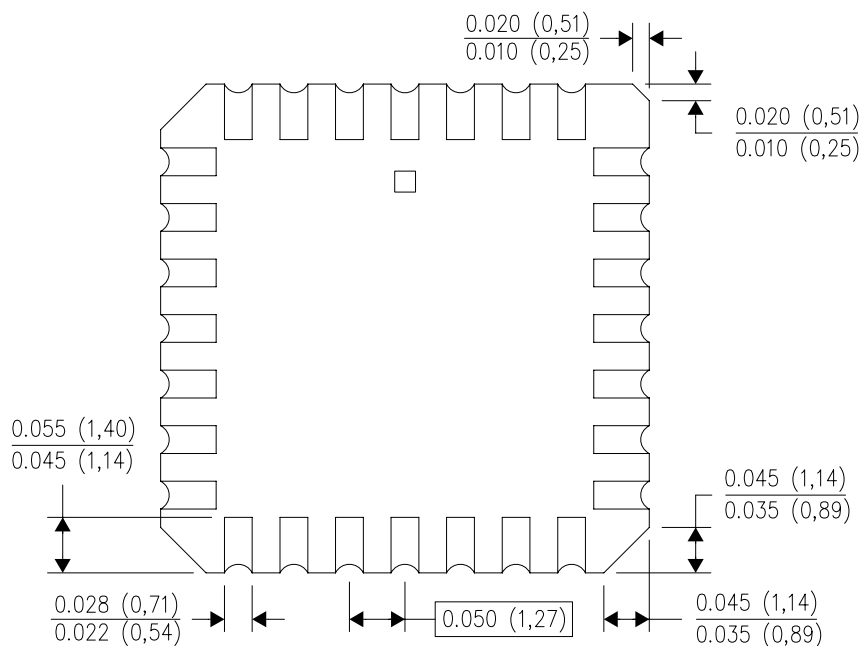
FK (S-CQCC-N**)

LEADLESS CERAMIC CHIP CARRIER

28 TERMINAL SHOWN



| NO. OF TERMINALS ** | A | | B | |
|---------------------|------------------|------------------|------------------|------------------|
| | MIN | MAX | MIN | MAX |
| 20 | 0.342 (8,69) | 0.358 (9,09) | 0.307 (7,80) | 0.358 (9,09) |
| 28 | 0.442 (11,23) | 0.458 (11,63) | 0.406 (10,31) | 0.458 (11,63) |
| 44 | 0.640 (16,26) | 0.660 (16,76) | 0.495 (12,58) | 0.560 (14,22) |
| 52 | 0.740 (18,78) | 0.761 (19,32) | 0.495 (12,58) | 0.560 (14,22) |
| 68 | 0.938 (23,83) | 0.962 (24,43) | 0.850 (21,6) | 0.858 (21,8) |
| 84 | 1.141 (28,99) | 1.165 (29,59) | 1.047 (26,6) | 1.063 (27,0) |



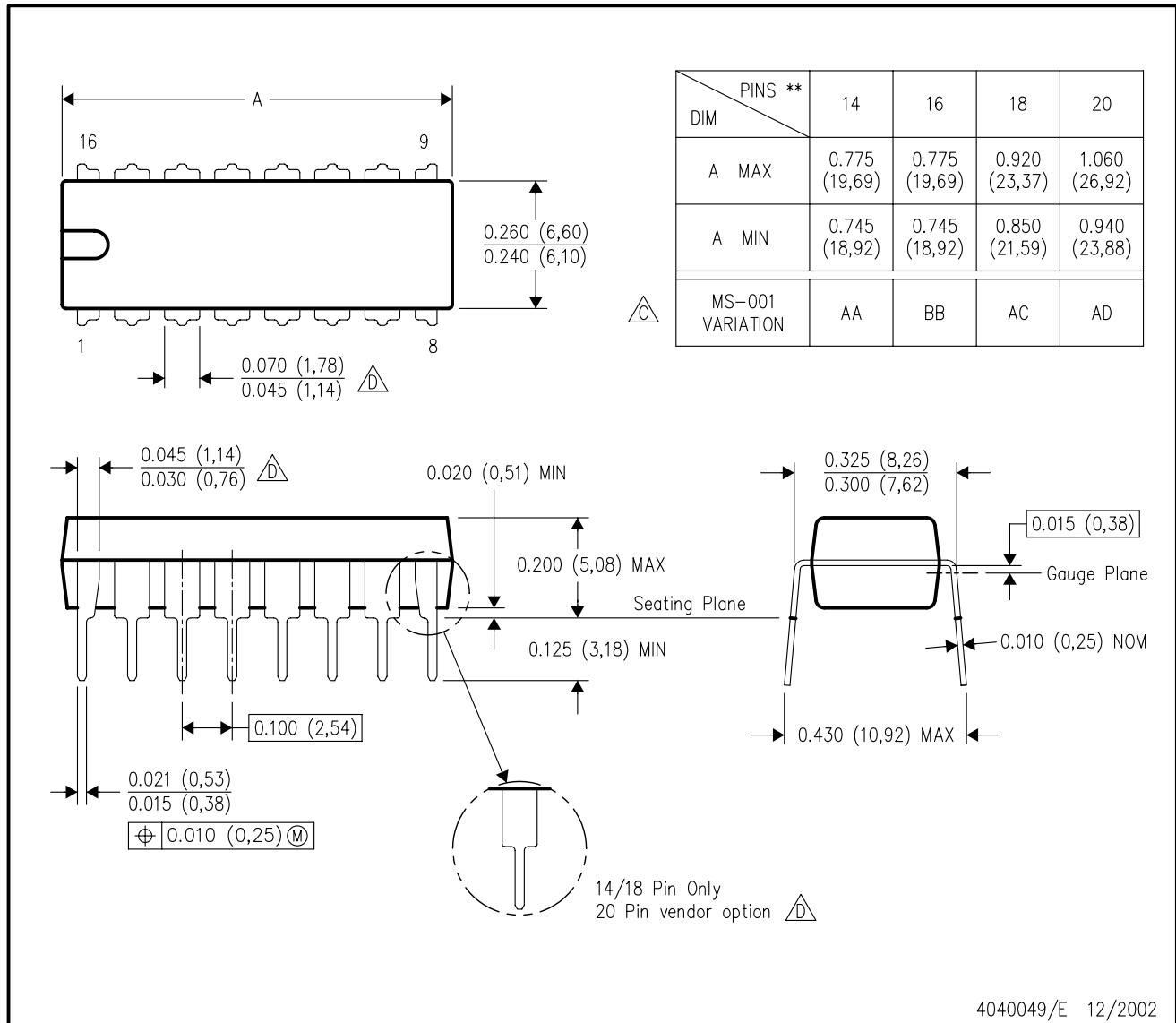
4040140/D 01/11

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

N (R-PDIP-T**)

PLASTIC DUAL-IN-LINE PACKAGE

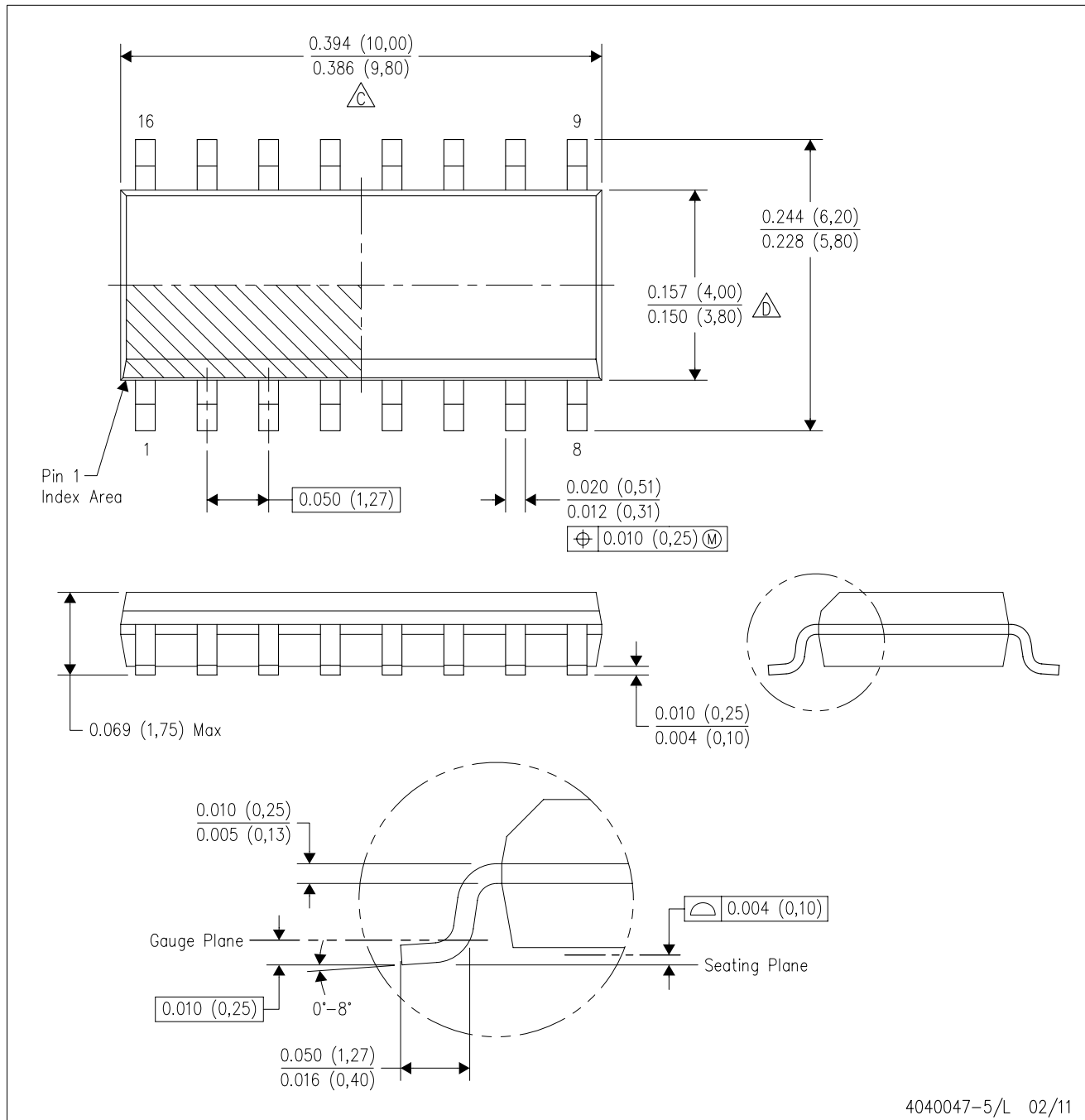
16 PINS SHOWN





- NOTES:
- 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.

D (R-PDSO-G16)

PLASTIC SMALL OUTLINE

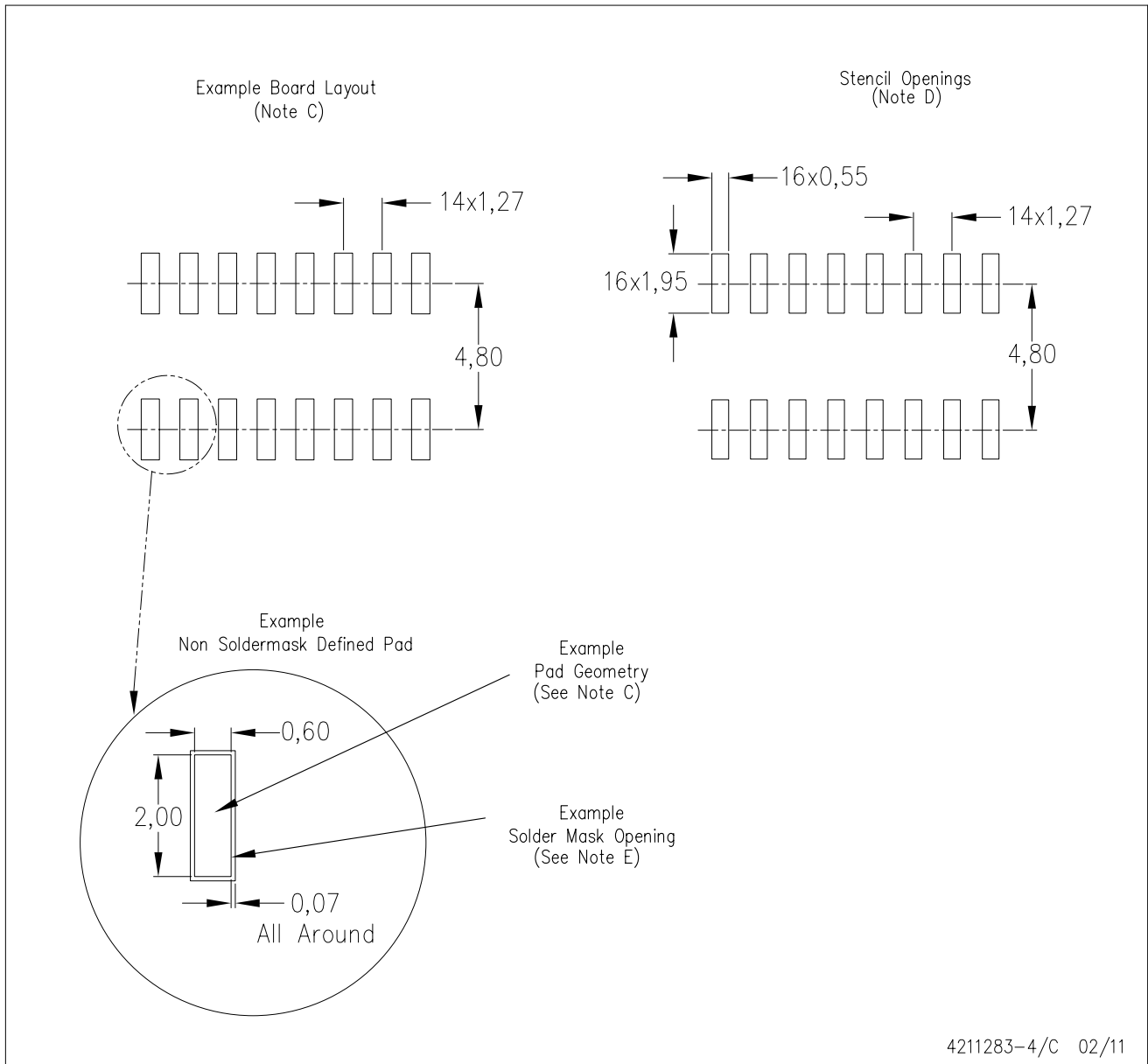


4040047-5/L 02/11

- NOTES:
- 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 AC.

D (R-PDSO-G16)

PLASTIC SMALL OUTLINE



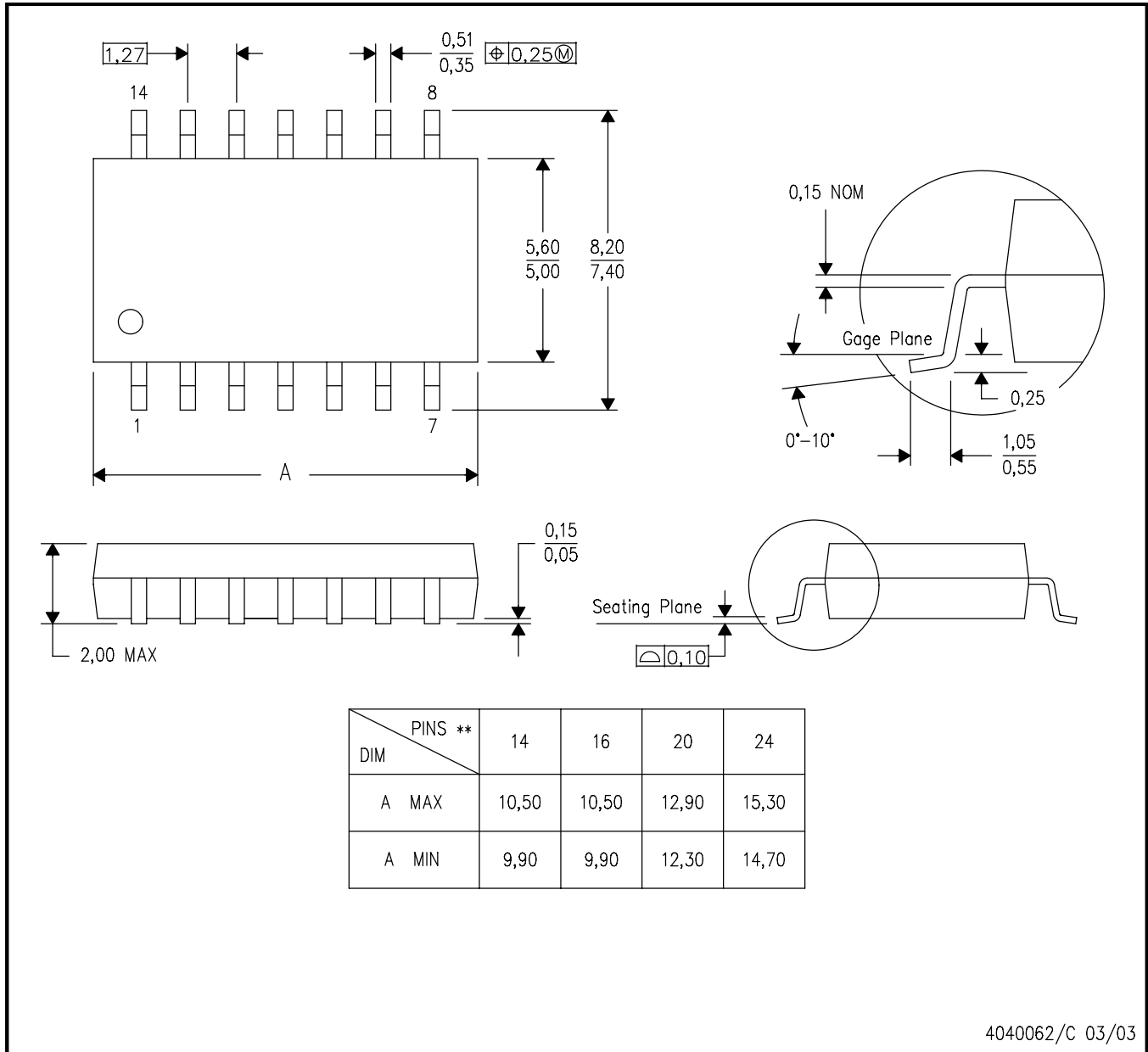
- NOTES:
- A. All linear dimensions are in millimeters.
 - B. This drawing is subject to change without notice.
 - C. Publication IPC-7351 is recommended for alternate designs.
 - D. Laser cutting apertures with trapezoidal walls and also rounding corners will offer better paste release. Customers should contact their board assembly site for stencil design recommendations. Refer to IPC-7525 for other stencil recommendations.
 - E. Customers should contact their board fabrication site for solder mask tolerances between and around signal pads.

MECHANICAL DATA

NS (R-PDSO-G)**

PLASTIC SMALL-OUTLINE PACKAGE

14-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.

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