

# 3M™ Through-Board Socket

2 mm Single Row, Straight, Dual Entry, Surface Mount

953 Series



- Optimizes use of PC board space
- High temperature dielectric
- “No lead” reflow solder compatible
- Single row design, 4–40 pins
- Minimized PC Board stacking heights
- Mates with pin headers for board stacking applications
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the RoHS compliance section of [www.3Mconnectors.com](http://www.3Mconnectors.com) for compliance information (RIA E1 & C1 apply)

Date Modified: December 3, 2011

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## Physical

### Insulation

Material: High Temperature Thermoplastic  
Flammability: UL 94V-0  
Color: Black

### Contact

Material: Copper Alloy

### Plating

Underplating: 1.25–2.5  $\mu\text{m}$  [50–100  $\mu\text{in}$ ] Nickel  
Wiping Area: Flash Gold  
Solder Tail Area: 1–3  $\mu\text{m}$  [40–110  $\mu\text{in}$ ] Matte Tin

## Electrical

### Current Rating:

Insulation Resistance:  $> 5 \times 10^8 \text{ Ohm}$  at 100 V<sub>DC</sub>

Withstanding Voltage: 1000 V<sub>DC</sub>

Transition Resistance:  $\leq 20 \text{ mOhm}$

## Environmental

Temperature Range: -40 °C to +105 °C

Processing Temperature: max. 260 °C (Profile per J-STD-020C)

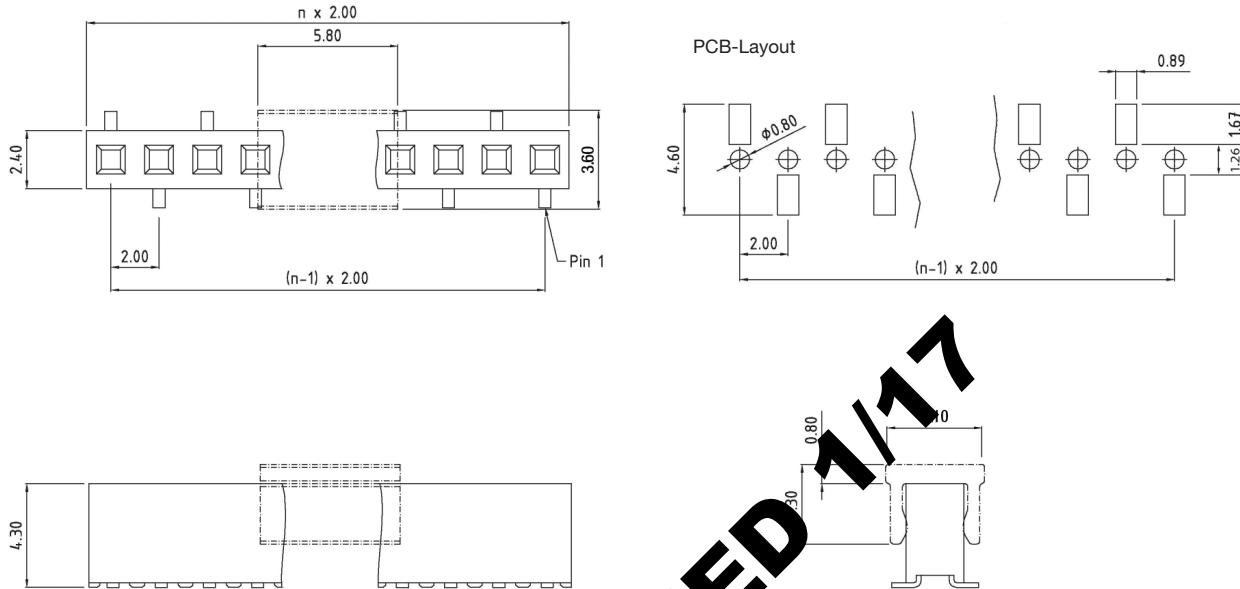
Moisture Sensitivity Level: 1 (per J-STD-020C)

UL File No.: E68080

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n = No. of Contacts

| Tape & Reel Option |     |      |       |       |       |       |       |
|--------------------|-----|------|-------|-------|-------|-------|-------|
| Contact Quantity   | 4-8 | 9-10 | 11-15 | 16-21 | 22-28 | 29-36 | 37-40 |
| Tape Width [mm]    | 24  | 32   | 40    | 48    | 72    | 88    | 104   |

| Tolerance Unless Noted [mm] |         |         |         |         |
|-----------------------------|---------|---------|---------|---------|
| Nominal Size                | 0.5-3   | 3-6     | 6-30    | 30-120  |
| Linear Dim                  | +/- 0.1 | +/- 0.1 | +/- 0.2 | +/- 0.3 |
| Radii                       | +/- 0.2 | +/- 0.5 | +/- 1   | +/- 1   |

## Ordering Information

9531XX - 2000 - AR - XX (RIA E1 & C1 Apply)

Contact Quantity:  04-40 Pins

Tail Style:  2 = Straight, Surface Mount

Packaging:  
TP = Tube  
PT = Tube with Pad  
PR = Tape & Reel with Pad

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