

# 3M™ Through-Board Socket

2.54 mm, Single Row, Dual Entry, Surface Mount

963 Series



- High temperature dielectric
- “No lead” reflow solder compatible
- Single row design, 3–30 pins
- Mates with pin headers for board stacking applications
- Dual entry design allows mating from top side or bottom side through the printed circuit board
- 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: August 27, 2014

TS-2190-F  
Sheet 1 of 2

## 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  $\mu\text{m}$  [40–100  $\mu\text{in}$ ] Matte Tin

## Electrical

Current Rating: 2 A

Insulation Resistance:  $\geq 10^8$  Ohm at 100 V<sub>DC</sub>

Withstanding Voltage: 500 V<sub>DC</sub>

## Environmental

Temperature Range: -25 °C to +105 °C

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

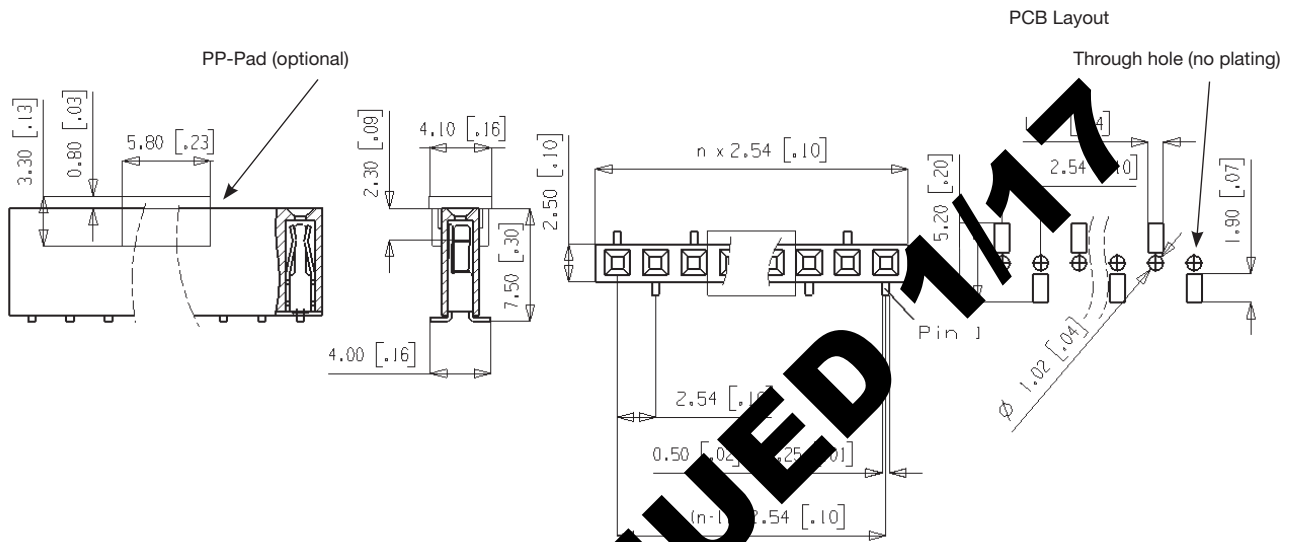
Moisture Sensitivity Level: 1 (per J-STD-020C)

UL File No.: E68080

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n = No. of Contacts

|                  | Tape & Reel |      |       |       |       |       |     |
|------------------|-------------|------|-------|-------|-------|-------|-----|
| Contact Quantity | 4-6         | 8-12 | 13-17 | 18-22 | 23-28 | 29-30 |     |
| Tape Width [mm]  | 24          | 32   | 44    | 56    | 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

**9631XX - 2000 - AR-XX**

(RIA E1 & C1 Apply)

Contact Quantity:  
03-30 Pins / 1 Row

Packaging:  
TP = Tube without Pad (3 to 30 pos)  
PT = Tube with Pad (4 to 30 pos)  
PR = Tape & Reel with Pad(4 to 30 pos)

TS-2190-F  
Sheet 2 of 2

**DISCONTINUED 1/17**

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