

# 3M™ Through-Board Socket

2 mm x 2 mm Straight, Dual Entry, Surface Mount

953 Series



- Optimizes use of PC board space
- High temperature dielectric
- “No lead” reflow solder compatible
- Dual row design, 6–60 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: November 26, 2012

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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  $\mu\text{m}$  [40–118  $\mu\text{in}$ ] Matte Tin

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## Electrical

**Current Rating:** 1 A  
**Insulation Resistance:**  $> 5 \times 10^8$  Ohm at 100 V<sub>DC</sub>  
**Withstanding Voltage:** 1000 V<sub>DC</sub>  
**Transition Resistance:**  $\leq 20$  mOhm

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## Environmental

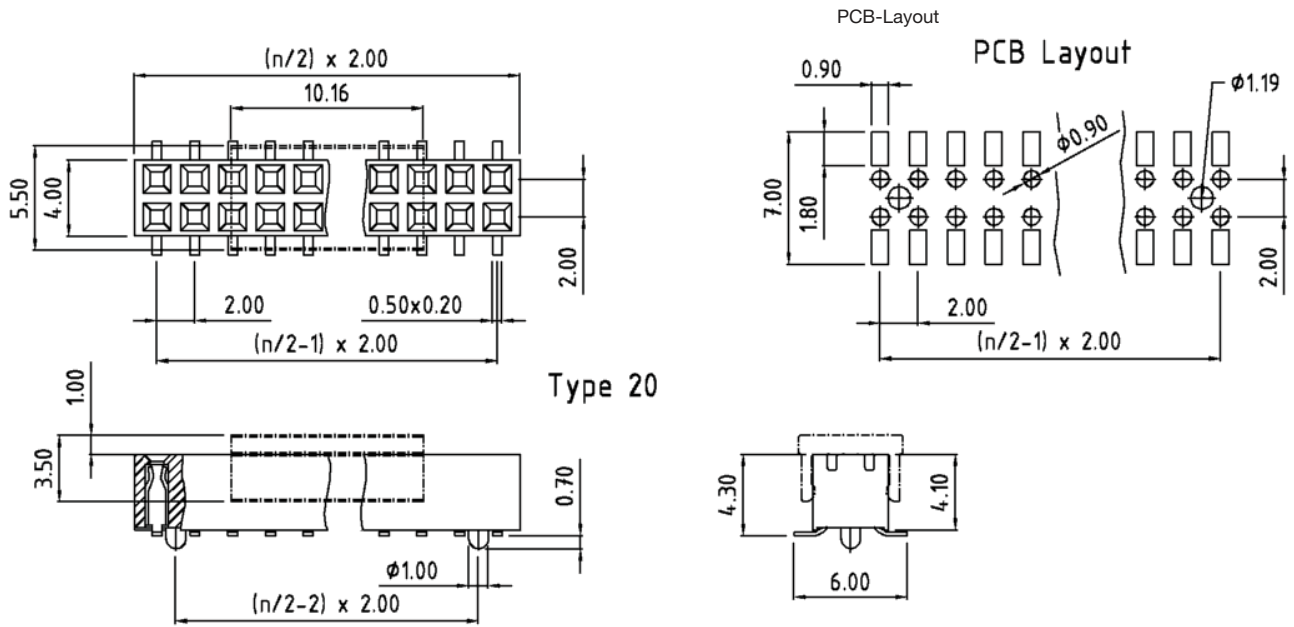
**Temperature Range:** -40 °C to +105 °C  
**Processing Temperature:** max. 260 °C (Profile per J-STD-020C)  
**Moisture Sensitivity Level:** 1 (per J-STD-020C)

UL File No.: E68080

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Type 20



| Tape & Reel Option |       |       |       |       |       |    |
|--------------------|-------|-------|-------|-------|-------|----|
| Contact Quantity   | 10-14 | 16-18 | 20-30 | 32-44 | 46-58 | 60 |
| Tape Width [mm]    | 24    | 32    | 44    | 56    | 72    | 88 |

n = No. of Contacts

| 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

**9532XX - 20X0 - AR - XX** (RIA E1 & C1 Apply)

Contact Quantity:  
06-60 Pins

Tail Style:  
2 = Straight,  
Surface Mount

Packaging:  
TP = Tube  
PT = Tube with Pad 10 to 60 pos  
PR = Tape & Reel with Pad 10 to 60 pos

Board Location Features:  
0 = none  
2 = with Loc. Posts  
(8-16 Contacts)

see packaging option

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