

# 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, 2013

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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

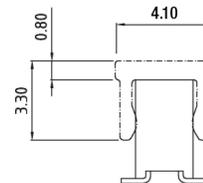
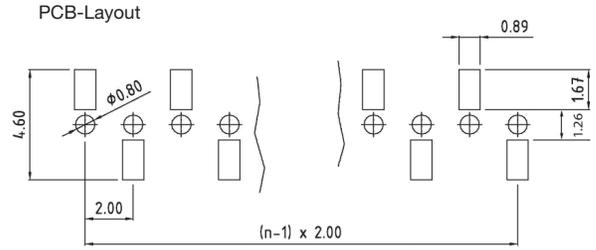
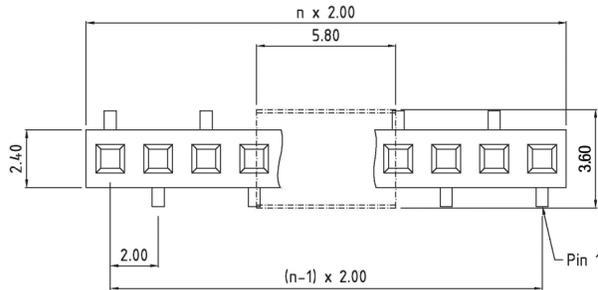
**Temperature Range:** -40 °C to +105 °C  
**Processing Temperature:** max. 260 °C (Profile per J-STD-020C)  
**Moisture Sensitivity Level:** 1 (per J-STD-020C)

UL File No.: E68080

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Tape & Reel Option							
<b>Contact Quantity</b>	4-8	9-10	11-15	16-21	22-28	29-36	37-40
<b>Tape Width [mm]</b>	24	32	44	56	72	88	104

n = No. of Contacts

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