

## Excellent Integrated System Limited

Stocking Distributor

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[3M](#)

[950406-8200-AR-TP](#)

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[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

# 3M™ Boardmount Socket

2 mm x 2 mm Right Angle, Surface Mount

950 Series



- Optimizes use of PC board space
- High temperature dielectric
- “No lead” reflow solder compatible
- Dual row design, 6–50 pins
- Mates with pin-strip header products
- 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

TS-2167-F  
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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

## 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

## Environmental

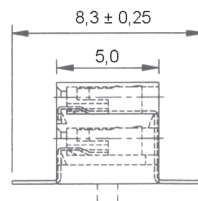
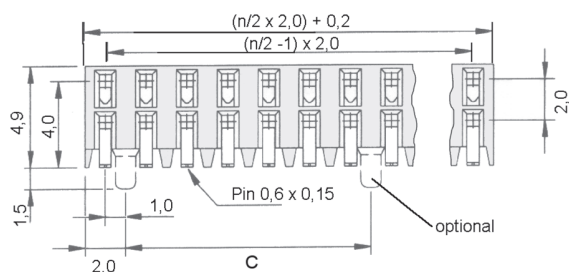
**Temperature Range:** -40 °C to +105 °C**Processing Temperature:** max. 260 °C (Profile per J-STD-020C)**Moisture Sensitivity Level:** 1 (per J-STD-020C)

UL File No.: E68080

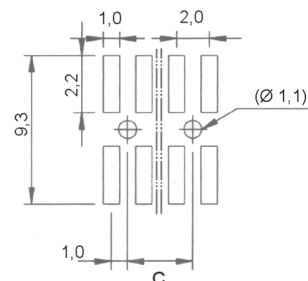
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PCB-Layout



Dimensions (mm)								
Contacts			10	12	14	16	18	20
C			4.0	4.0	6.0	8.0	10.0	12.0
Contacts	22	24	26	28	30	32	34	36
C	14.0	16.0	18.0	20.0	22.0	24.0	26.0	28.0
Contacts	38	40	42	44	46	48	50	
C	30.0	32.0	34.0	36.0	38.0	40.0	42.0	



Tape & Reel Option							
9504xx-8200	Contact Quantity	6	8–14	16–20	22–30	32–44	46–50
9504xx-8220		–	10–14	16	–	–	–
Tape Width [mm]		16	24	32	44	56	72

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

**9504XX - 82X0 - AR - XX** (RIA E1 & C1 Apply)

Contact Quantity:  
06-50 Pins

Tail Style:  
8 = Right Angle,  
Surface Mount

Packaging:  
TP = Tube  
TR = Tape & Reel

Board Location Features:  
0 = None  
2 = with Board Loc. Posts  
(6-16 Contacts / others on Request)

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Sheet 2 of 2

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