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 for compliance information (RIA E1 & C1 apply)

Date Modified: November 26, 2012

Physical

Insulation	
Material:	High Temperature Thermoplastic
Flammability:	UL 94V-0
Color:	Black
Contact	
Material:	Copper Alloy
Plating	
Underplating:	1.25–2.5 µm [50-100 µ"] Nickel
Wiping Area:	Flash Gold
Solder Tail Area:	1–3 µm [40–118 µ"] Matte Tin

Electrical

Current Rating:	1 A
Insulation Resistance:	> 5 x 10^8 Ohm at 100 V_{DC}
Withstanding Voltage:	1000 V_{DC}
Transition Resistance:	≤ 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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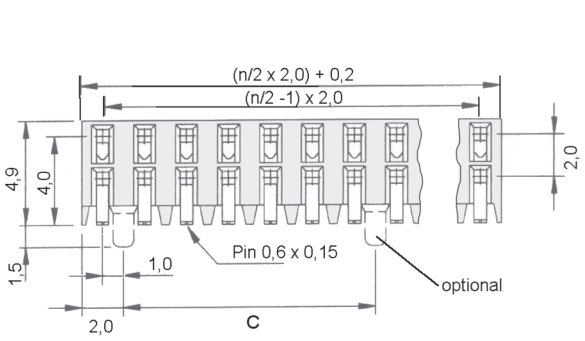
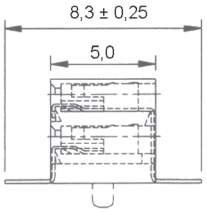
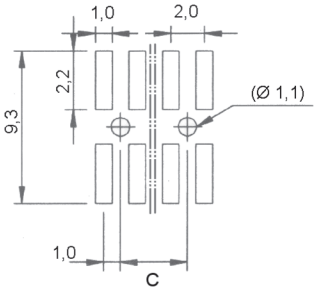
950 Series





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

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

Packaging:
TP = Tube
TR = Tape & Reel

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