.050" Straight and Right Angle, Through-Hole, Boardmount

P50 Series



- P50 Plug offers straight and right angle through-hole options
- Right angle P50 Plug comes with and without retention clips
- Latch/eject mechanism maintains a secure connection
- Mates to the P50 wiremount socket
- · RoHS* compliant

Date Modified: December 15, 2006

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Physical

Insulation

Material: Glass Filled Nylon

Flammability: UL 94V-0

Color: Black

Contact

Material: Phosphor Bronze

Plating

Underplating: Nickel

Wiping Area: 10 µ" [.25 µm] Gold

Solder Tails: Gold Flash Retention Clips: Tin-Copper

Electrical

Current Rating: 0.5 A

Insulation Resistance: $10^3 \Omega$ at $500 V_{DC}$ Withstanding Voltage: $650 V_{AC}$ for 1 minute

Environmental

Temperature Rating: -55°C to +85°C

Process Rating: 260°C (per J-STD-020C)

*"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated in writing by 3M, this information represents 3M's knowledge and belief based on information provided by third party suppliers to 3M.

UL File No.: E68080

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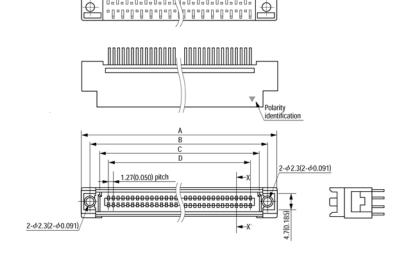
For Straight and Right Angle Plug Product Table / Dimensions

Contact Quantity	A	В	C	D
20	25.43	20.32	15.83	11.43
	[1.001]	[0.800]	[0.623]	[0.450]
26	29.24	24.13	19.64	15.24
	[1.151]	[0.950]	[0.773]	[0.600]
30	31.78	26.67	22.18	17.78
	[1.251]	[1.050]	[0.873]	[0.700]
32	33.05	27.94	23.45	19.05
	[1.301]	[1.100]	[0.923]	[0.750]
34	34.32	29.21	24.72	20.32
	[1.351]	[1.150]	[0.973]	[0.800]

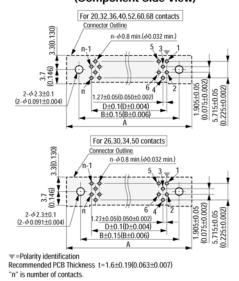
Contact Quantity	A	В	C	D
40	38.13	33.02	28.53	24.13
	[1.501]	[1.300]	[1.123]	[0.950]
50	44.48	39.37	34.88	30.48
	[1.751]	[1.550]	[1.373]	[1.200]
52	45.75	40.64	36.15	31.75
	[1.801]	[1.600]	[1.423]	[1.250]
60	50.83	45.72	41.23	36.83
	[2.001]	[1.800]	[1.623]	[1.450]
68	55.91	50.80	46.31	41.91
	[2.201]	[2.000]	[1.823]	[1.650]



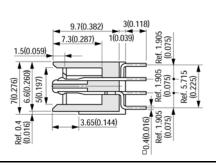
Straight Plug



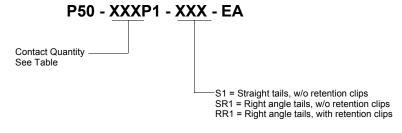
Printed Circuit Board Layout (Component Side View)



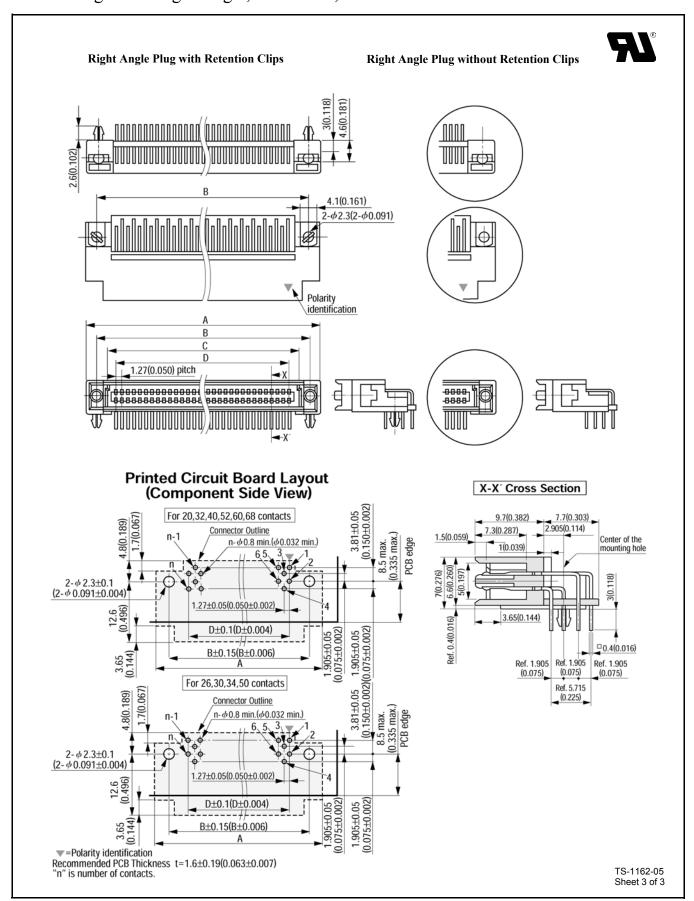
X-X´ Cross Section



Ordering Information



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