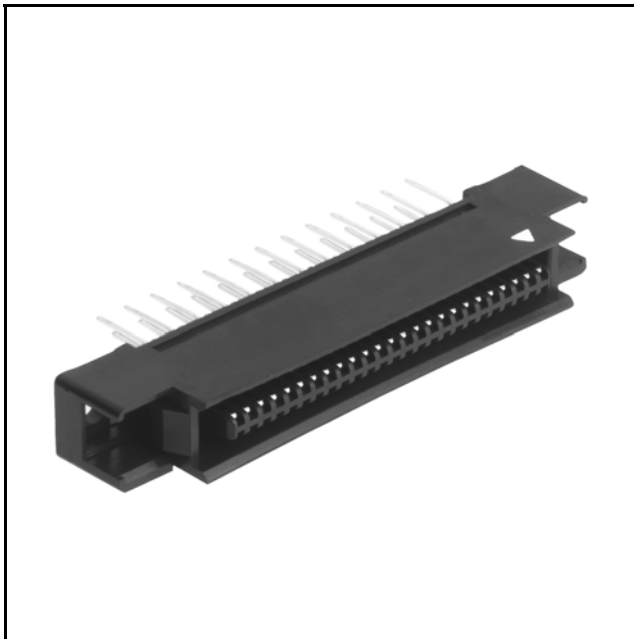


3M™ Pak 50 Boardmount Plug

.050" Straight and Right Angle, Through-Hole

P50E Series



- P50E Plug offers straight and right angle through-hole options
- Right angle P50E Plug comes with and without retention clips
- Latch/eject mechanism maintains a secure connection
- Mates to the P50E wiremount socket
- RoHS* compliant

Date Modified: December 13, 2006

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Physical

Insulation

Material: Glass Filled Nylon
Flammability: UL 94V-0
Color: Black

Contact

Material: Copper Alloy

Plating

Underplating: Nickel
Wiping Area: 10 μ" [0.25 μm] Gold
Solder Tails: Gold Flash
Retention Clips: Tin-Copper

Electrical

Current Rating: 0.5 A
Insulation Resistance: 10³ Ω at 500 V_{DC}
Withstanding Voltage: 650 V_{AC} for 1 minute

Environmental

Temperature Rating: -55°C to +85°C
Process Rating: 260°C (ref 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 by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

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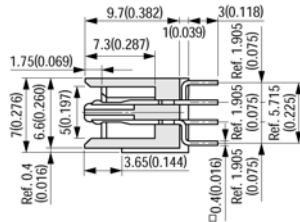
P50E Series

Product Table / Dimensions (For Straight and Right Angle)

Contact Quantity	A	B	C	D
20	27.83	22.86	15.83	11.43
	[1.096]	[0.900]	[0.623]	[0.450]
26	31.64	26.67	19.64	15.24
	[1.246]	[1.050]	[0.773]	[0.600]
30	34.18	29.21	22.18	17.78
	[1.346]	[1.150]	[0.873]	[0.700]
32	35.45	30.48	23.45	19.05
	[1.396]	[1.200]	[0.923]	[0.750]
34	36.72	31.75	24.72	20.32
	[1.446]	[1.250]	[0.973]	[0.800]
40	40.53	35.56	28.53	24.13
	[1.596]	[1.400]	[1.123]	[0.950]

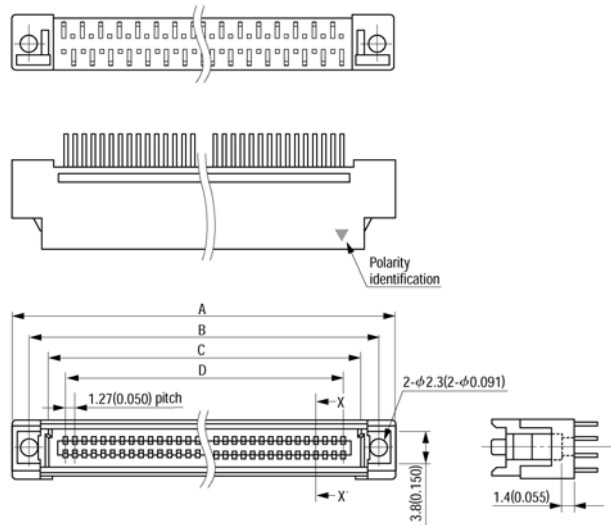
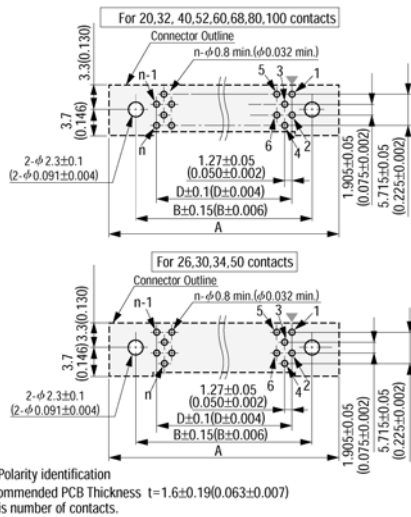
Contact Quantity	A	B	C	D
50	46.88	41.91	34.88	30.48
	[1.846]	[1.650]	[1.373]	[1.200]
52	48.15	43.18	36.15	31.75
	[1.896]	[1.700]	[1.423]	[1.250]
60	53.23	48.26	41.23	36.83
	[2.096]	[1.900]	[1.623]	[1.450]
68	58.31	53.34	46.31	41.91
	[2.296]	[2.100]	[1.823]	[1.650]
80	65.93	60.96	53.93	49.53
	[2.596]	[2.400]	[2.123]	[1.950]
100	78.63	73.66	66.63	62.23
	[3.096]	[2.900]	[2.623]	[2.450]

X-X' Cross Section



Straight Plug

Printed Circuit Board Layout (Component Side View)



Ordering Information

P50E - XXXP1 - XXX - EA

Contact Quantity
See Table

Solder Tail/Clip Options:
S1 = Straight tails, without Retention Clips
SR1 = Right angle tails, without Retention Clips
RR1 = Right angle tails, with Retention Clips

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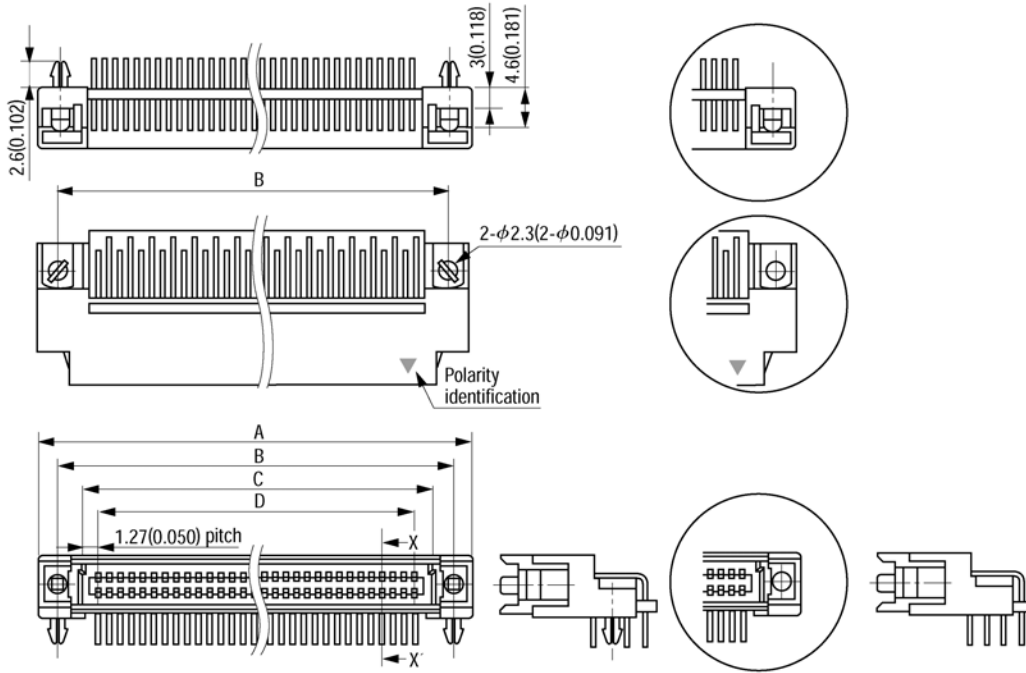
3M™ Pak 50 Boardmount Plug

.050" Straight and Right Angle, Through-Hole

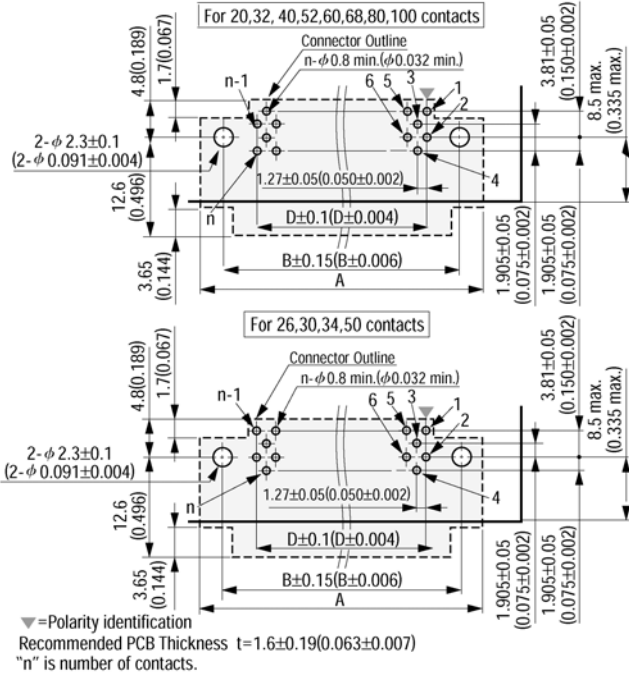
P50E Series

Right Angle Plug with Retention Clips

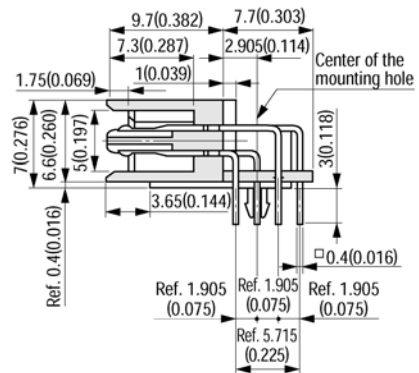
Right Angle Plug without Retention Clips



Printed Circuit Board Layout (Component Side View)



X-X' Cross Section



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