3M[™] Pak 50 Boardmount Plug

.050" Through-Hole, Straight and Right Angle, with Ret. Clips, Flng. Option

P50 Series



- Contact design features two contact points and straight beam construction for connector reliability and low insertion force
- Retention clip secures connector for wave soldering eliminating additional hardware expenses
- Horizontal, parallel or vertical mating available
- Insulator design prevents mis-insertion errors and contact damage
- Available with and without flanges
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the "RoHS Compliance" section of www.3Mconnector.com for compliance information (RIA E1 and C1 apply)

Date Modified: February 10, 2010

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Physical

Insulator:

Material: Glass Filled Nylon

Flammability: UL 94V-0

Color: Black

Contact Material: Phosphor Bronze

Plating:

Underplating: Nickel

Wiping Area: 10 μ" [0.25 μm] Gold

Solder Tails: Gold Flash Retaining Clips: Tin-Copper Mating Compatibility: TS-2047

Electrical

Current Rating: 0.5 A

Insulation Resistance: $> 1 \times 10^9 \Omega$ at $500 V_{DC}$ **Withstanding Voltage:** $500 V_{TMS}$ at Sea Level

Environmental

Temperature Rating: -55°C to +85°C

Process Rating: 260°C Wave Solder Compatible

UL File No.: E68080

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Product Table / Dimensions for Straight with Flanges, with or without Retention Clips

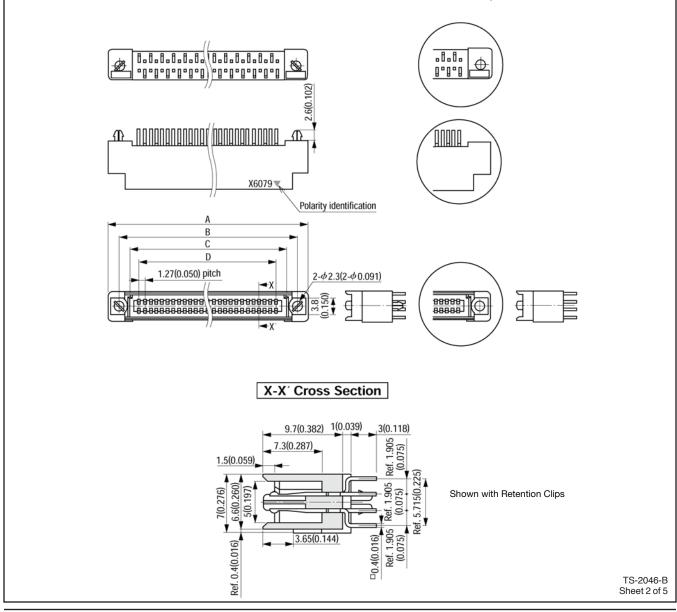


Contact Quantity	А	В	С	D
20	25.43	20.32	15.83	11.43
	[1.001]	[0.800]	[0.623]	[0.450]
26	29.24	24.13	19.64	15.24
	[1.151]	[0.950]	[0.773]	[0.600]
30	31.78	26.67	22.18	17.78
	[1.251]	[1.050]	[0.873]	[0.700]
32	33.05	27.94	23.45	19.05
	[1.301]	[1.100]	[0.923]	[0.750]
34	34.32	29.21	24.72	20.32
	[1.351]	[1.150]	[0.973]	[0.800]
40	38.13	33.02	28.53	24.13
	[1.501]	[1.300]	[1.123]	[0.950]

Contact Quantity	Α	В	С	D
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]
80	63.53	58.42	53.93	49.53
	[2.501]	[2.300]	[2.123]	[1.950]
100	76.23	71.12	66.63	62.23
	[3.001]	[2.800]	[2.623]	[2.450]

With Retention Clips

Without Retention Clips



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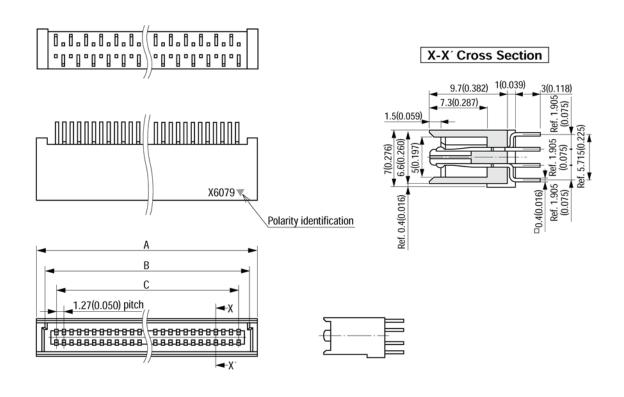
.050" Through-Hole, Straight and Right Angle, with Ret. Clips, Flng. Option

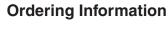
P50 Series

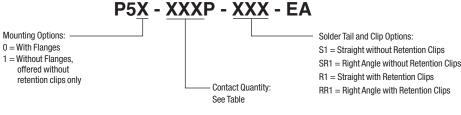
Product Table / Dimensions for Straight without Flanges

Contact Quantity	А	В	С
20	17.83	15.83	11.43
	[0.702]	[0.623]	[0.450]
26	21.64	19.64	15.24
	[0.852]	[0.773]	[0.600]
30	24.18	22.18	17.78
	[0.952]	[0.873]	[0.700]
32	25.45	23.45	19.05
	[1.002]	[0.923]	[0.750]
34	26.72	24.72	20.32
	[1.052]	[0.973]	[0.800]
40	30.53	28.53	24.13
	[1.202]	[1.123]	[0.950]

Contact Quantity	А	В	С
50	36.88	34.88	30.48
	[1.452]	[1.373]	[1.200]
52	38.15	36.15	31.75
	[1.502]	[1.423]	[1.250]
60	43.23	41.23	36.83
	[1.702]	[1.623]	[1.450]
68	48.31	46.31	41.91
	[1.902]	[1.823]	[1.650]
80	55.93	53.93	49.53
	[2.202]	[2.123]	[1.950]
100	68.63	66.63	62.23
	[2.702]	[2.623]	[2.450]







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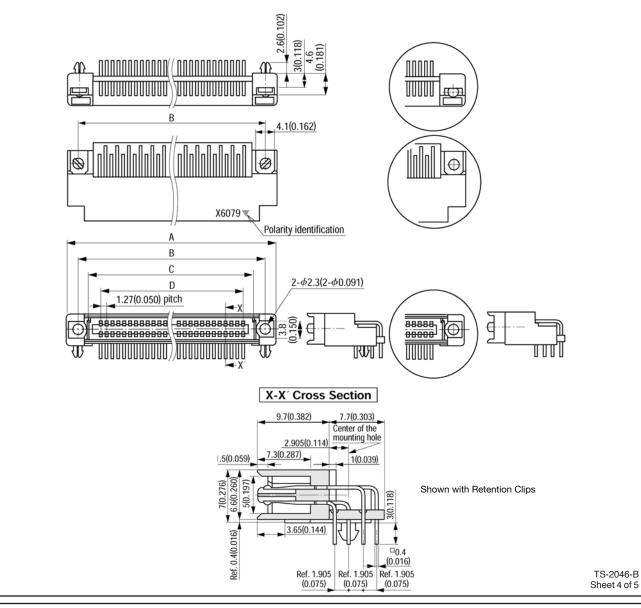
Product Table / Dimensions for Right Angle with Flanges, with or without Retention Clips

Contact Quantity	Α	В	С	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]
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Contact Quantity	Α	В	С	D
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	[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]
80	63.53	58.42	53.93	49.53
	[2.501]	[2.300]	[2.123]	[1.950]
100	76.23	71.12	66.63	62.23
	[3.001]	[2.800]	[2.623]	[2.450]

With Retention Clips

Without Retention Clips



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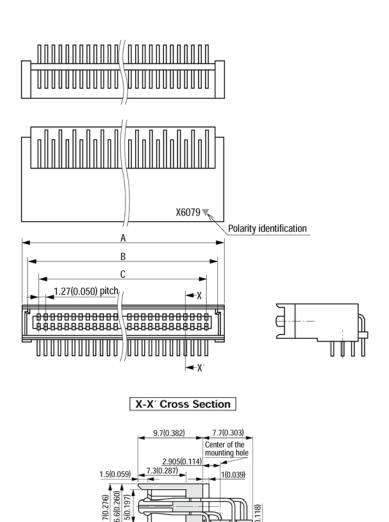
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Product Table / Dimensions for Right Angle without Flanges

Contact Quantity	Α	В	С
20	17.83	15.83	11.43
	[0.702]	[0.623]	[0.450]
26	21.64	19.64	15.24
	[0.852]	[0.773]	[0.600]
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100	68.63	66.63	62.23
	[2.702]	[2.623]	[2.450]



Ref. 1.905 Ref. 1.905 Ref. 1.905 (0.075) (0.075)

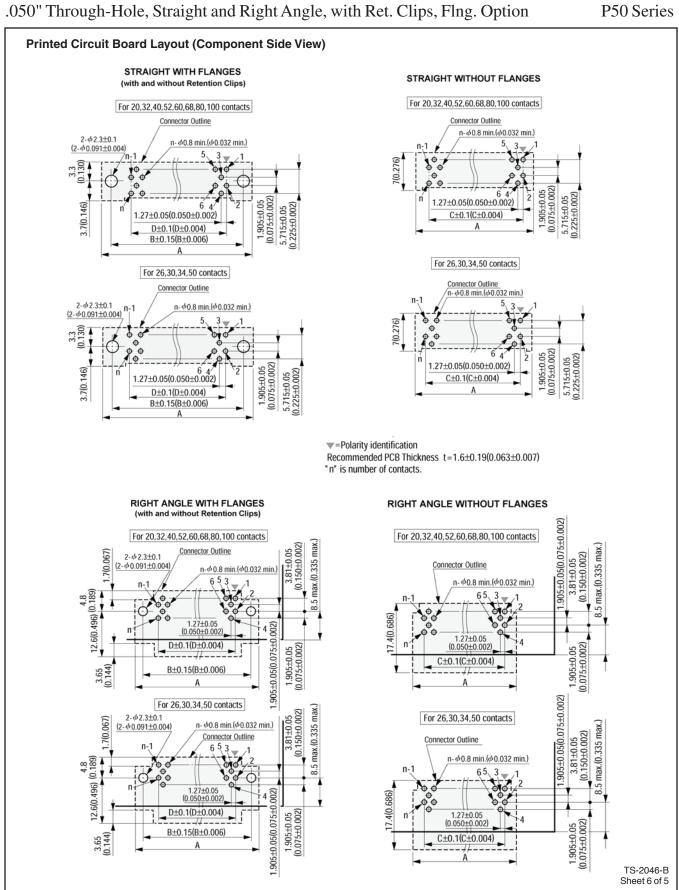
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