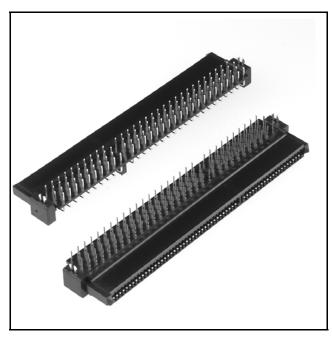
.050" Straight and Right Angle Maxi-Mate

P50 Series



- High density connectors with up to 200 contacts
- Horizontal, parallel and vertical mating availability
- Insulator designed to prevent mating misalignment
- RoHS* compliant

Date Modified: December 11, 2006

TS-2050-03 Sheet 1 of 5

Physical

Material:Glass Filled NylonFlammability:UL 94V-0Color:BlackContactMaterial:Phosphor BronzePlatingNickelUnderplating:10 μ" [0.25 μm] GoldSolder Tails:Gold FlashRetaining Clips:Tin-Copper

Electrical

Current Rating:0.5 AInsulation Resistance: $10^3 \Omega$ at 500 V_{DC}Withstanding Voltage: 650 V_{AC} for 1 minute

Environmental

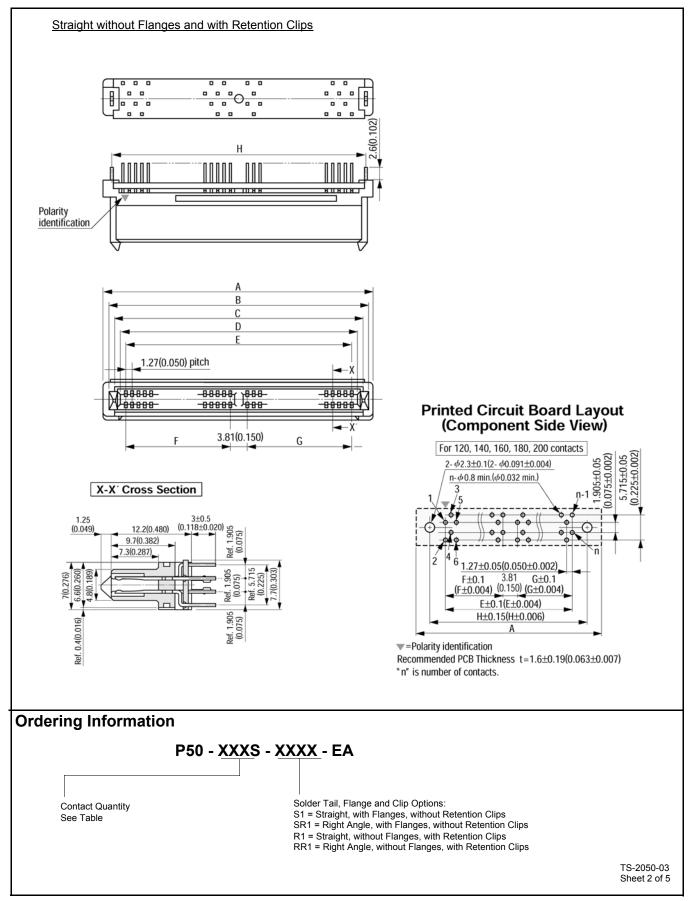
Temperature Rating: -55°C to +85°C Process Rating: 260°C (per J-STD-020C)

"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 by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

UL File No.: E68080

3M Interconnect Solutions http://www.3M.com/interconnects/

.050" Straight and Right Angle Maxi-Mate



.050" Straight and Right Angle Maxi-Mate

P50 Series

Product Table / Dimensions for Straight and Right Angle without Flanges and with Retention Clips

Contact Quantity	Α	В	С	D	E	F	G	Н
120	86.50	84.10	81.47	79.47	77.47	24.13	49.53	83.82
	[3.406]	[3.311]	[3.207]	[3.129]	[3.050]	[0.950]	[1.950]	[3.300]
140	99.20	96.80	94.17	92.17	90.17	24.13	62.23	96.52
	[3.906]	[3.811]	[3.707]	[3.629]	[3.550]	[0.950]	[2.450]	[3.800]
160	111.90	109.50	106.87	104.87	102.87	36.83	62.23	109.22
	[4.406]	[4.311]	[4.207]	[4.129]	[4.050]	[1.450]	[2.450]	[4.300]
180	124.60	122.20	119.57	117.57	115.57	49.53	62.23	121.92
	[4.906]	[4.811]	[4.707]	[4.629]	[4.550]	[1.950]	[2.450]	[4.800]
200	137.30	134.90	132.27	130.27	128.27	62.23	62.23	134.62
	[5.406]	[5.311]	[5.207]	[5.129]	[5.050]	[2.450]	[2.450]	[5.300]

Note:

These connectors do not have a symmetrical board layout pattern. The 120 pin connectors have 80 pins on one side and 40 pins on the other. All other pin counts have 100 pins on one side and the balance on the other side.

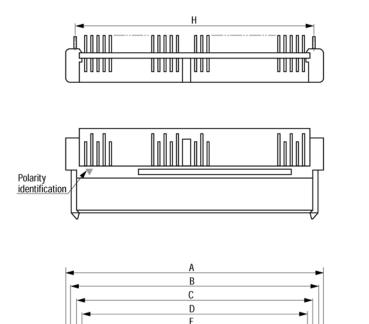
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Right Angle without Flanges and with Retention Clips



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3.81(0.150)

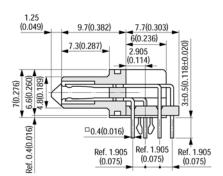
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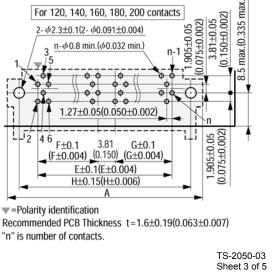
1.27(0.050) pitch

88888

X-X´Cross Section



Printed Circuit Board Layout (Component Side View)



.6(0.102)

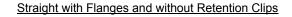
.050" Straight and Right Angle Maxi-Mate

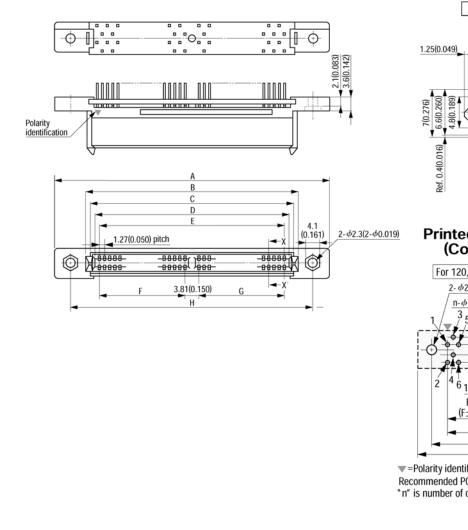
P50 Series

Contact Quantity	Α	В	С	D	Е	F	G	Н
120	99.20	84.10	81.47	79.47	77.47	24.13	49.53	91.44
	[3.906]	[3.311]	[3.207]	[3.129]	[3.050]	[0.950]	[1.950]	[3.600]
140	111.90	96.80	94.17	92.17	90.17	24.13	62.23	104.14
	[4.406]	[3.811]	[3.707]	[3.629]	[3.550]	[0.950]	[2.450]	[4.100]
160	124.60	109.50	106.87	104.87	102.87	36.83	62.23	116.84
	[4.906]	[4.311]	[4.207]	[4.129]	[4.050]	[1.450]	[2.450]	[4.600]
180	137.30	122.20	119.57	117.57	115.57	49.53	62.23	129.54
	[5.406]	[4.811]	[4.707]	[4.629]	[4.550]	[1.950]	[2.450]	[5.100]
200	150.00	134.90	132.27	130.27	128.27	62.23	62.23	142.24
	[5.906]	[5.311]	[5.207]	[5.129]	[5.050]	[2.450]	[2.450]	[5.600]

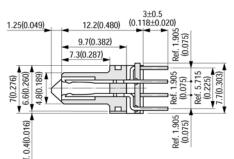
Note:

These connectors do not have a symmetrical board layout pattern. The 120 pin connectors have 80 pins on one side and 40 pins on the other. All other pin counts have 100 pins on one side and the balance on the other side.

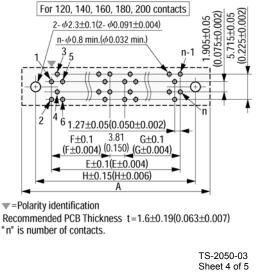




X-X´ Cross Section



Printed Circuit Board Layout (Component Side View)



.050" Straight and Right Angle Maxi-Mate

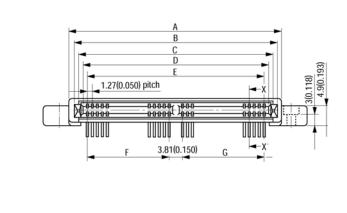
Product Table / Dimensions for Right Angle with Flanges and without Retention Clips Contact С D Е F G B J А Н Quantity 120 99.20 84.10 81.47 79.47 77.47 24.13 49.53 91.44 86.50 [3.906] [3.311] [3.207 [3.129] [3.050 [0.950] [1.950] [3.600] [3.406] 140 94.17 111.90 96.80 92.17 90.17 24.13 62.23 104.14 99.20 [4.406] [3.811] [3.707 [3.629] [3.550] [0.950] [2.450] [4.100] [3.906] 62.23 160 124.60 109.50 106.87 104.87 102.87 36.83 116.84 111.90 [4.906] [4.311] [4.207 [4.129] [4.050] [1.450] [2.450] [4.600] [4.406] 180 137.30 122.20 119.57 117.57 115.57 62.23 129.54 49.53 124.60 [4.550] [5.100] [5.406] [4.811] [4.707][4.629] [1.950] [2.450][4.906] 200 150.00 134.90 132.27 130.27 128.27 62.23 62.23 142.24 137.30 [5.906] [5.311] [5.207 [5.129] [5.050] [2.450] [2.450] [5.600] [5.406]

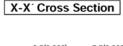
Note:

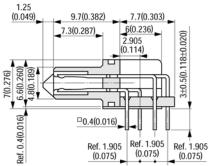
These connectors do not have a symmetrical board layout pattern. The 120 pin connectors have 80 pins on one side and 40 pins on the other. All other pin counts have 100 pins on one side and the balance on the other side.

Right Angle with Flanges and without Retention Clips

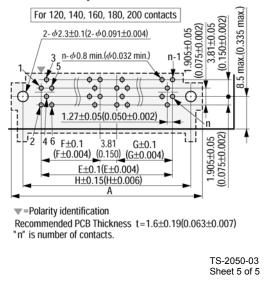
H 4.1(0.161) C- d2.3(2-00.091)







Printed Circuit Board Layout (Component Side View)



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