3M[™] Pak 50 Boardmount Socket

.050" Straight and Right Angle Maxi-Mate

- High density connectors with up to 200 contacts
- · Horizontal, parallel and vertical mating availability
- Insulator designed to prevent mating misalignment
- 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 3, 2010

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Physical

Insulator:

Material:Glass Filled NylonFlammability:UL 94V-0Color:BlackContact Material:Phosphor BronzePlating:VickelUnderplating:NickelWiping Area:10 μ" [0.25 μm] GoldSolder Tails:Gold FlashRetaining Clips:Tin-CopperMating Compatibility:TS-2049

Electrical

Current Rating: 0.5 A

Insulation Resistance: > $1 \times 10^{9} \Omega$ at 500 V_{DC}

Withstanding Voltage: $650 V_{AC}$ for 1 minute

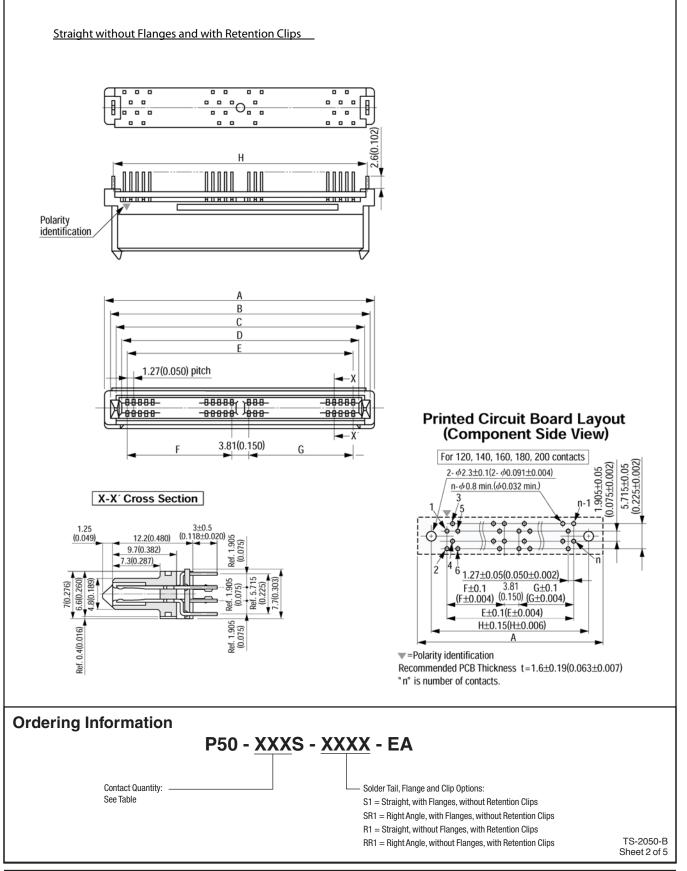
Environmental

Temperature Rating:-55°C to +85°CProcess Rating:260°C Wave Solder Compatible

UL File No.: E68080



.050" Straight and Right Angle Maxi-Mate



ЗМ

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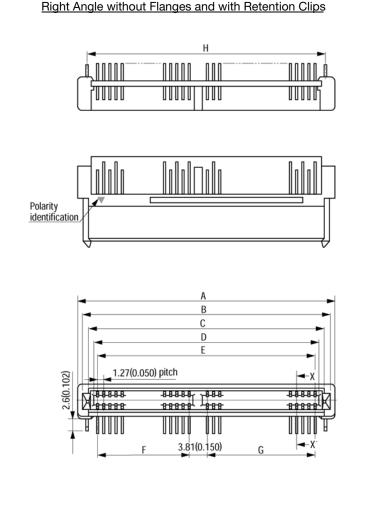
.050" Straight and Right Angle Maxi-Mate

Product Table / Dimensions for Straight and Right Angle without Flanges and with Retention Clips Contact А В С D Е F G Н Quantity 86.50 84.10 81.47 79.47 77.47 24.13 49.53 83.82 120 [3.406] [3.207] [3.129] [3.050] [0.950] [1.950] [3.300] [3.311] 94.17 [3.707] 99.20 96.80 62.23 96.52 92.17 90.17 24.13 140 [3.906] [3.811] [3.629] [3.550] [0.950] [2.450] [3.800] 111.90 109.50 106.87 104.87 102.87 36.83 62.23 109.22 160 [4.406] [4.311] [4.207] [4.129] [4.050] [1.450] [2.450] [4.300] 124.60 122.20 115.57 119.57 117.57 49.53 62.23 121.92 180 [4.906] [4.811] [4.707] [4.629] [4.550] [1.950] [2.450] [4.800] 137.30 134.90 132.27 134.62 130.27 128.27 62.23 62.23 200 [5.406] [5.311] [5.207] [5.129] [5.050] [2.450] [2.450] [5.300]

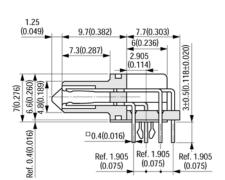
Notes:

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.

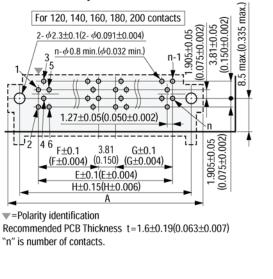




X-X[°] Cross Section



Printed Circuit Board Layout (Component Side View)



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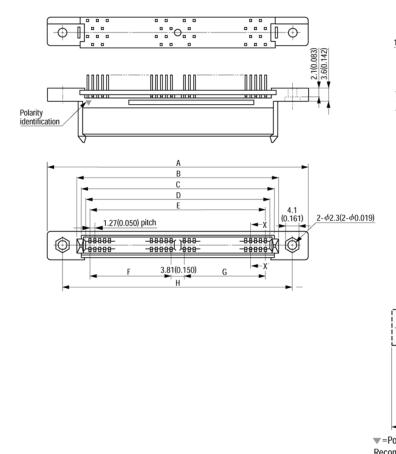
.050" Straight and Right Angle Maxi-Mate

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

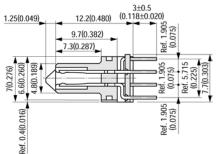
Notes:

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.

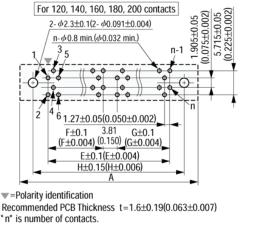
Straight with Flanges an d without Retention Clips



X-X Cross Section



Printed Circuit Board Layout (Component Side View)



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P50 Series

.050" Straight and Right Angle Maxi-Mate

P50 Series

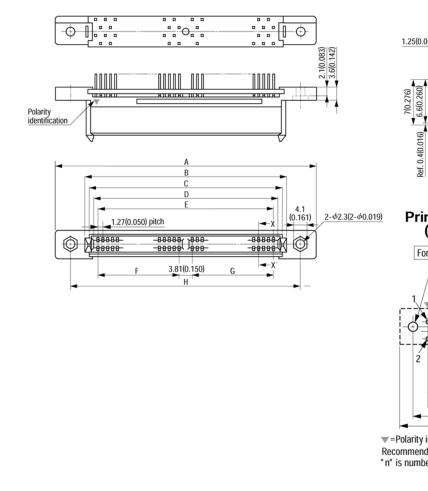
Product Table / Dimensions for Right Angle with Flanges and without Retention Clips

Contact Quantity	А	В	С	D	E	F	G	Н	J
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	111.90	96.80	94.17	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]
160	124.60	109.50	106.87	104.87	102.87	36.83	62.23	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	49.53	62.23	129.54	124.60
	[5.406]	[4.811]	[4.707]	[4.629]	[4.550]	[1.950]	[2.450]	[5.100]	[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]

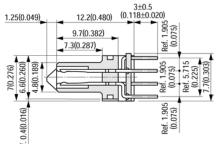
Notes:

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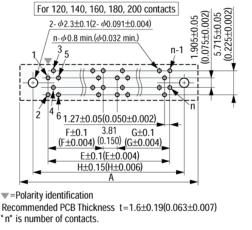
Straight with Flanges an d without Retention Clips



X-X Cross Section



Printed Circuit Board Layout (Component Side View)



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