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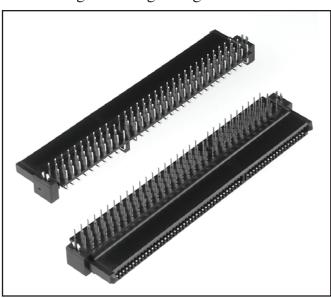




3M[™] Pak 50 Boardmount Socket

.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. 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

TS-2050-B Sheet 1 of 6

Physical

Insulator:

Material: Glass Filled Nylon

Flammability: UL 94V-0

Color: Black

Contact Material: Phosphor Bronze

Plating:

Underplating: Nickel

Wiping Area: $10 \mu'' [0.25 \mu m]$ Gold

Solder Tails: Gold Flash Retaining Clips: Tin-Copper

Mating Compatibility: TS-2049

Electrical

Current Rating: 0.5 A

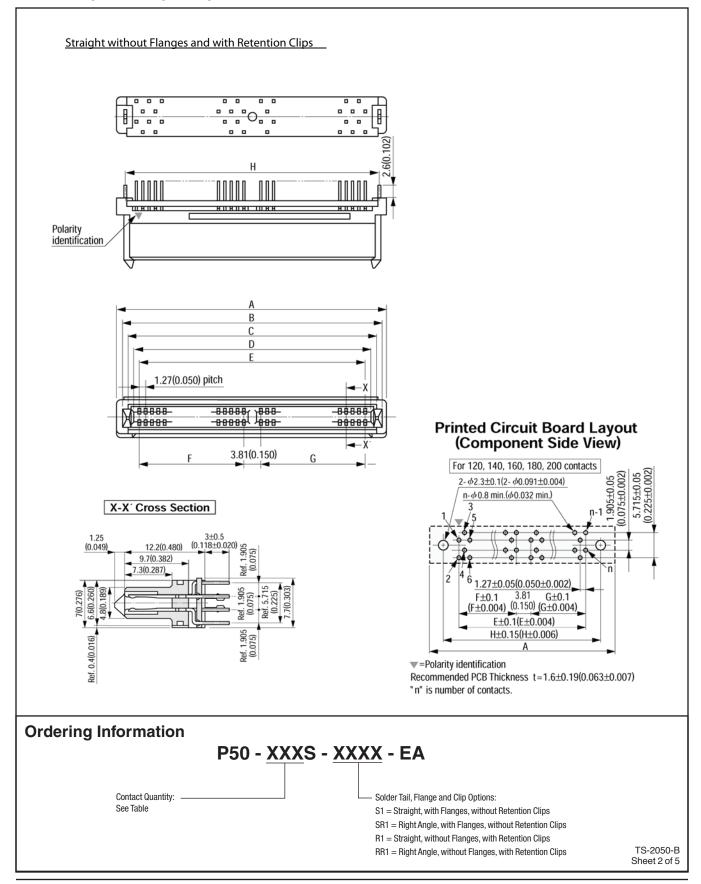
Insulation Resistance: $> 1 \times 10^9 \Omega$ at 500 V_{DC} **Withstanding Voltage:** 650 V_{AC} for 1 minute

Environmental

Temperature Rating: -55°C to +85°C

Process Rating: 260°C Wave Solder Compatible

UL File No.: E68080



.050" Straight and Right Angle Maxi-Mate

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

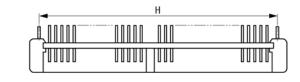
Contact Quantity	А	В	С	D	E	F	G	Н
120	86.50	84.10	81.47	79.47	77.47	24.13	49.53	83.82
	[3.406]	[3.311]	[3.207]	[3.129]	[3.050]	[0.950]	[1.950]	[3.300]
140	99.20	96.80	94.17	92.17	90.17	24.13	62.23	96.52
	[3.906]	[3.811]	[3.707]	[3.629]	[3.550]	[0.950]	[2.450]	[3.800]
160	111.90	109.50	106.87	104.87	102.87	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]

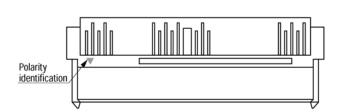
Notes:

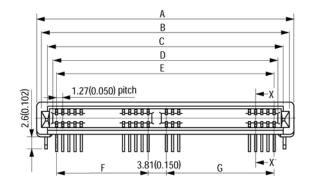
These connectors do not have a symmetrical board layout pattern. The 120 pin connectors have 80 pins on one side and 40 pins on the other. All other pin counts have 100 pins on one side and the balance on the other side.



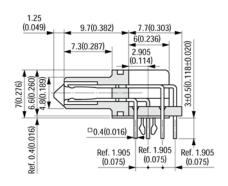
Right Angle without Flanges and with Retention Clips



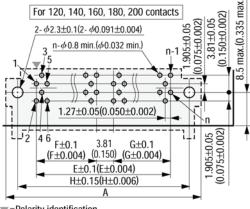




X-X´ Cross Section



Printed Circuit Board Layout (Component Side View)



▼=Polarity identification

Recommended PCB Thickness $t=1.6\pm0.19(0.063\pm0.007)$ "n" is number of contacts.

TS-2050-B Sheet 3 of 5 .050" Straight and Right Angle Maxi-Mate

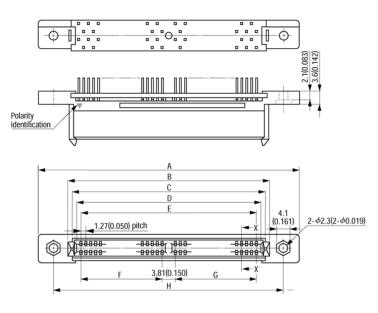
Product Table / Dimensions for Straight with Flanges and without Retention Clips

Contact Quantity	А	В	С	D	E	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]

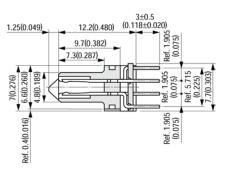
Notes:

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.

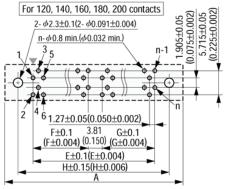
Straight with Flanges an d without Retention Clips



X-X´ Cross Section



Printed Circuit Board Layout (Component Side View)



■=Polarity identification

Recommended PCB Thickness $t=1.6\pm0.19(0.063\pm0.007)$ "n" is number of contacts.

TS-2050-B Sheet 4 of 5

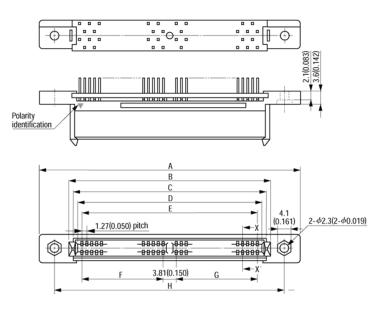
Product Table / Dimensions for Right Angle with Flanges and without Retention Clips

Contact Quantity	Α	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]

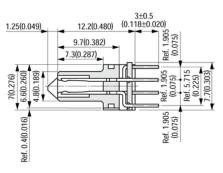
Notes:

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.

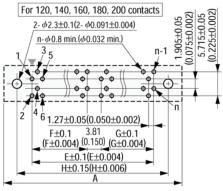
Straight with Flanges an d without Retention Clips



X-X´ Cross Section



Printed Circuit Board Layout (Component Side View)



■=Polarity identification

Recommended PCB Thickness $t=1.6\pm0.19(0.063\pm0.007)$ "n" is number of contacts.

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