3M[™] Pak 50 Boardmount Plug

.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.3Mconnectors.com for compliance information (RIA E1 and C1 apply)

Date Modified: February 3, 2012

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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" [.25 μm] Gold Solder Tails: Gold Flash Retaining Clips: Tin-Copper Mating Compatibility: TS-2050

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

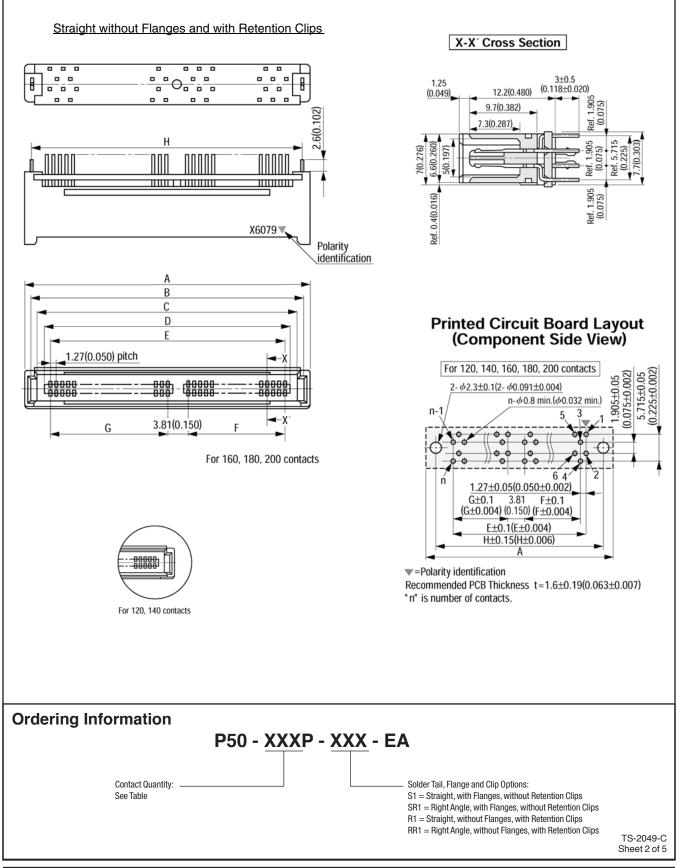
UL File No.: E68080

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.050" Straight and Right Angle Maxi-Mate



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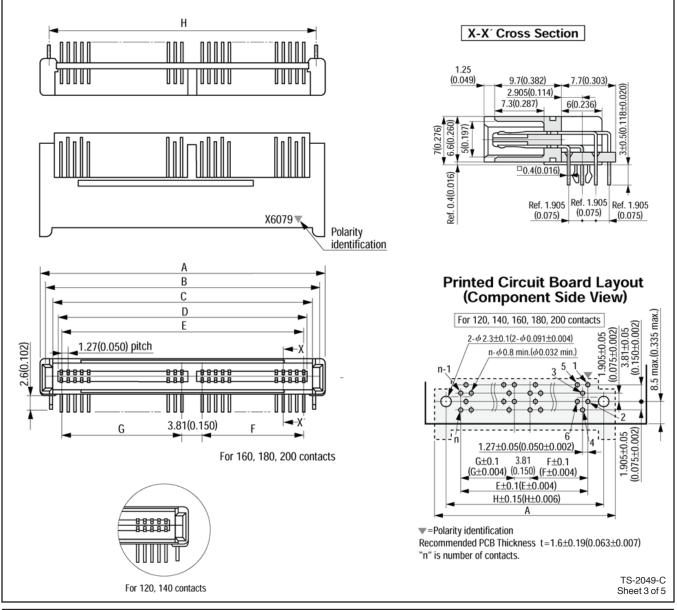
.050" Straight and Right Angle Maxi-Mate

| Product Table / Dimensions for Straight and Right Angle without Flanges | | | | | | | | | | | |
|---|---------|---------|---------|---------|---------|---------|---------|---------|--|--|--|
| Contact Quantity | A | В | С | D | E | F | G | Н | | | |
| 120 | 86.50 | 84.50 | 81.87 | 79.17 | 77.47 | 24.13 | 49.53 | 83.82 | | | |
| | [3.406] | [3.327] | [3.223] | [3.117] | [3.050] | [0.950] | [1.950] | [3.300] | | | |
| 140 | 99.20 | 97.20 | 94.57 | 91.87 | 90.17 | 24.13 | 62.23 | 96.52 | | | |
| | [3.906] | [3.827] | [3.723] | [3.617] | [3.550] | [0.950] | [2.450] | [3.800] | | | |
| 160 | 111.90 | 109.90 | 107.27 | 104.57 | 102.87 | 36.83 | 62.23 | 109.22 | | | |
| | [4.406] | [4.327] | [4.223] | [4.117] | [4.050] | [1.450] | [2.450] | [4.300] | | | |
| 180 | 124.60 | 122.60 | 119.97 | 117.27 | 115.57 | 49.53 | 62.23 | 121.92 | | | |
| | [4.906] | [4.827] | [4.723] | [4.617] | [4.550] | [1.950] | [2.450] | [4.800] | | | |
| 200 | 137.30 | 135.30 | 132.67 | 129.97 | 128.27 | 62.23 | 62.23 | 134.62 | | | |
| | [5.406] | [5.327] | [5.223] | [5.117] | [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



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and with Retention Clips

.050" Straight and Right Angle Maxi-Mate

| Product Table / Dimensions for Straight and Right Angle with Flanges and without Retention Clips | | | | | | | | | | | |
|--|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|------------------|------------------|-------------------|-------------------|--|
| | Contact Quantity | А | В | С | D | E | F | G | Н | J | |
| | 120 | 99.20 [3.906] | 84.50 [3.327] | 81.87 [3.223] | 79.17 [3.117] | 77.47 [3.050] | 24.13 [0.950] | 49.53 [1.950] | 91.44 [3.600] | 86.50 [3.406] | |
| | 140 | 111.90 [4.406] | 97.20 [3.827] | 94.57 [3.723] | 91.87 [3.617] | 90.17 [3.550] | 24.13 [0.950] | 62.23 [2.450] | 104.14 [4.100] | 99.20 [3.906] | |
| | 160 | 124.60 [4.906] | 109.90 [4.327] | 107.27 [4.223] | 104.57 [4.117] | 102.87 [4.050] | 36.83 [1.450] | 62.23 [2.450] | 116.84 [4.600] | 111.90 [4.406] | |
| | 180 | 137.30 [5.406] | 122.60 [4.827] | 119.97 [4.723] | 117.27 [4.617] | 115.57 [4.550] | 49.53 [1.950] | 62.23 [2.450] | 129.54 [5.100] | 124.60 [4.906] | |
| | 200 | 150.00 [5.906] | 135.30 [5.327] | 132.67 [5.223] | 129.97 [5.117] | 128.27 [5.050] | 62.23 [2.450] | 62.23 [2.450] | 142.24 [5.600] | 137.30 [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 and without Retention Clips



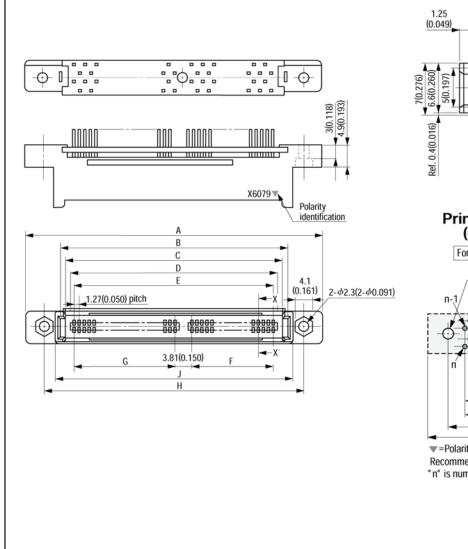
12.2(0.480) 9.7(0.382)

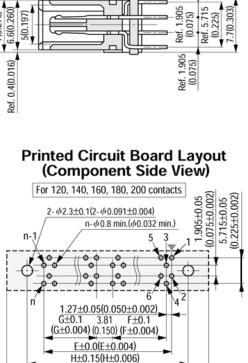
.3(0.287)

3±0.5 (0.118±0.020)

0.07

Ref.





■=Polarity identification Recommended PCB Thickness t=1.6±0.19(0.063±0.007) "n" is number of contacts.

А

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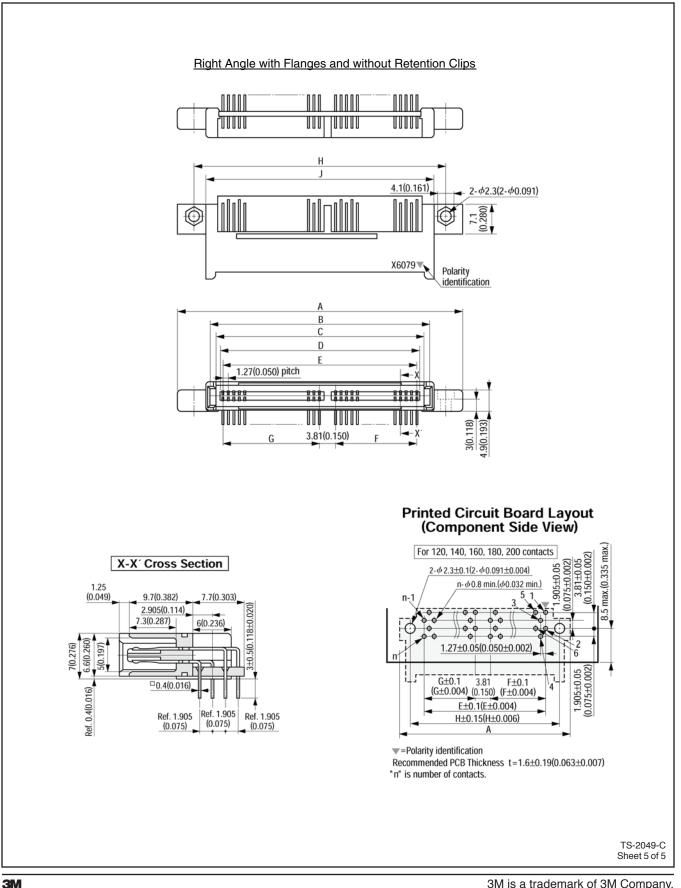
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.050" Straight and Right Angle Maxi-Mate

P50 Series



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