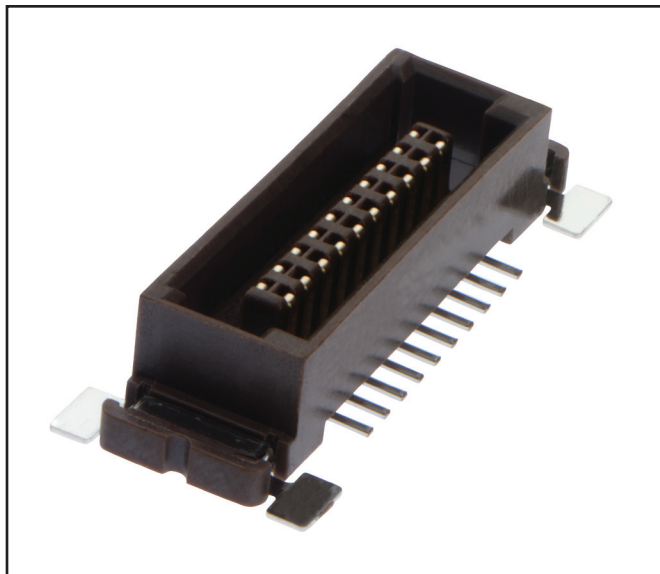


3M™ Pak 50 Low Profile Plug

.050" Surfacemount Plug .276" and .315" Mating Heights

P50L Series



- Low profile 0.276" - 0.315" (7 - 8 mm) addresses surfacemount board stacking applications
- High temperature insulator compatible with IR and wave soldering
- Solder brackets increase connector stability to protect contact solder joint integrity
- Polarized alignment posts insure correct mating
- 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 4, 2010

TS-2056-B
Sheet 1 of 2

Physical

Insulator:

Material: Glass Filled Nylon

Flammability: UL 94V-0

Color: Brown

Contact Material: Phosphor Bronze

Plating:

Underplating: Nickel

Wiping Area: Gold Flash

Solder Tails: Gold Flash

Retaining Clips: Tin-Copper

Mating Compatibility: TS-2055

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 MSL1 (per J-STD-020C)

UL File No.: E68080



Electronic Solutions Division
Interconnect Solutions
<http://www.3Mconnector.com>

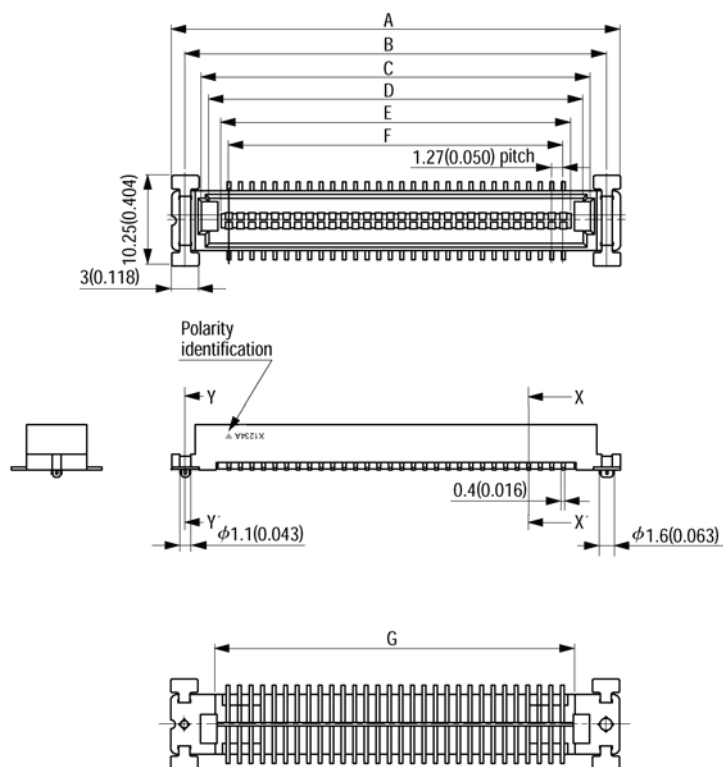
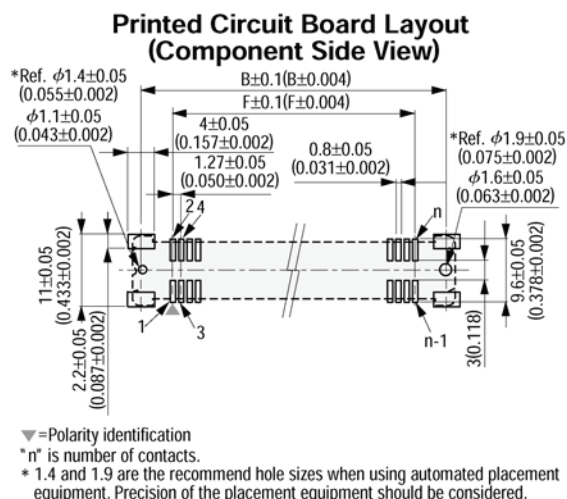
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3M™ Pak 50 Low Profile Plug

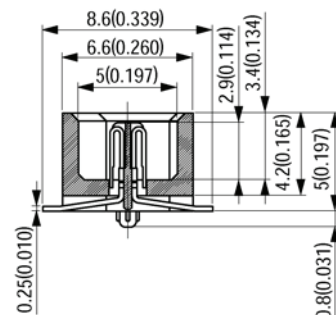
.050" Surfacemount Plug .276" and .315" Mating Heights

P50L Series

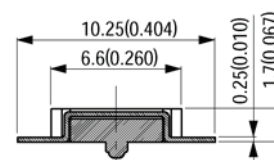
| Contact Quantity | A | B | C | D | E | F | G |
|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 20 | 24.03 [0.946] | 21.03 [0.828] | 17.43 [0.686] | 15.83 [0.623] | 13.13 [0.517] | 11.43 [0.450] | 14.23 [0.560] |
| 30 | 30.38 [1.196] | 27.38 [1.078] | 23.78 [0.936] | 22.18 [0.873] | 19.48 [0.767] | 17.78 [0.700] | 20.58 [0.810] |
| 40 | 36.73 [1.446] | 33.73 [1.328] | 31.13 [1.186] | 28.53 [1.123] | 25.83 [1.017] | 24.13 [0.950] | 26.93 [1.060] |
| 50 | 43.08 [1.696] | 40.08 [1.578] | 36.48 [1.436] | 34.88 [1.373] | 32.18 [1.267] | 30.48 [1.200] | 33.28 [1.310] |
| 60 | 49.43 [1.946] | 46.43 [1.828] | 42.83 [1.686] | 41.23 [1.623] | 38.53 [1.517] | 36.83 [1.450] | 39.63 [1.560] |
| 80 | 62.13 [2.446] | 59.13 [2.328] | 55.53 [2.186] | 53.93 [2.123] | 51.23 [2.017] | 49.53 [1.950] | 52.33 [2.060] |
| 100 | 74.83 [2.946] | 71.83 [2.828] | 68.23 [2.686] | 66.63 [2.623] | 63.93 [2.517] | 62.23 [2.450] | 65.03 [2.560] |
| 120 | 87.53 [3.446] | 84.53 [3.328] | 80.93 [3.186] | 79.33 [3.123] | 76.63 [3.017] | 74.93 [2.950] | 77.73 [3.060] |



X-X' Cross Section



Y-Y' Cross Section



Ordering Information

P50L - XXXP - AS - DA (RIA E1 and C1 apply)

Contact Quantity: _____
 See Table

TS-2056-B
 Sheet 2 of 2



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