

3M™ Pak 50 Plug

.050" Straight and Right Angle Plug, with Power Ground Pin

P50 Series



- Power/ground contacts enable separation of power and signals
- EMLB power/ground contacts control static discharge and allow "hot board" replacement
- 2 amp power/ground contact rating for high current applications maximizes signal contact utilization
- 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 18, 2010

TS-2051-C
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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 μ m] Gold

Solder Tails: Gold Flash

Retainer Clips: Tin-Copper

Mating Compatibility: TS-2052

Electrical

Current Rating: 0.5 A per Signal Contact, 2 A per Power Contact

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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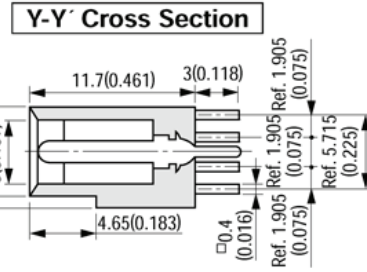
Product Table / Dimensions for Straight and Right Angle Plugs

| Contact Quantity | A | B | C | D |
|------------------|------------------|------------------|------------------|------------------|
| 20 | 25.43 [1.001] | 20.32 [0.800] | 15.83 [0.623] | 11.43 [0.450] |
| 26 | 29.24 [1.151] | 24.13 [0.950] | 19.64 [0.773] | 15.24 [0.600] |
| 30 | 31.78 [1.251] | 26.67 [1.050] | 22.18 [0.873] | 17.78 [0.700] |
| 32 | 33.05 [1.301] | 27.94 [1.100] | 23.45 [0.923] | 19.05 [0.750] |
| 34 | 34.32 [1.351] | 29.21 [1.150] | 24.72 [0.973] | 20.32 [0.800] |
| 40 | 38.13 [1.501] | 33.02 [1.300] | 28.53 [1.123] | 24.13 [0.950] |

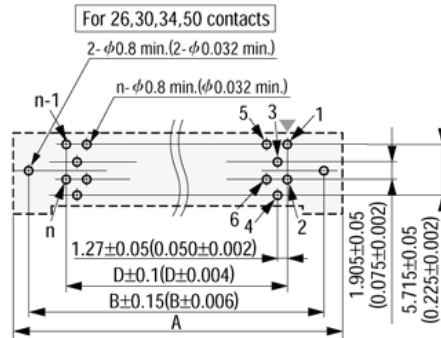
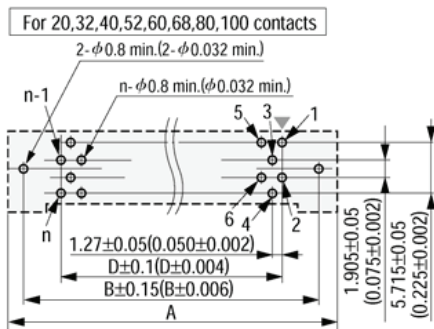
| Contact Quantity | A | B | C | D |
|------------------|------------------|------------------|------------------|------------------|
| 50 | 44.48 [1.751] | 39.37 [1.550] | 34.88 [1.373] | 30.48 [1.200] |
| 52 | 45.75 [1.801] | 40.64 [1.593] | 36.15 [1.423] | 31.75 [1.250] |
| 60 | 50.83 [2.001] | 45.72 [1.800] | 41.23 [1.623] | 36.83 [1.450] |
| 68 | 55.91 [2.201] | 50.8 [2.000] | 46.31 [1.823] | 41.91 [1.650] |
| 80 | 63.53 [2.501] | 58.42 [2.300] | 53.93 [2.123] | 49.53 [1.950] |
| 100 | 76.23 [3.001] | 71.12 [2.800] | 66.63 [2.623] | 62.23 [2.450] |



Straight



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.

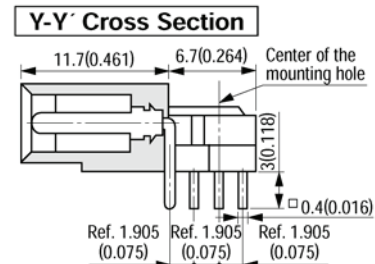
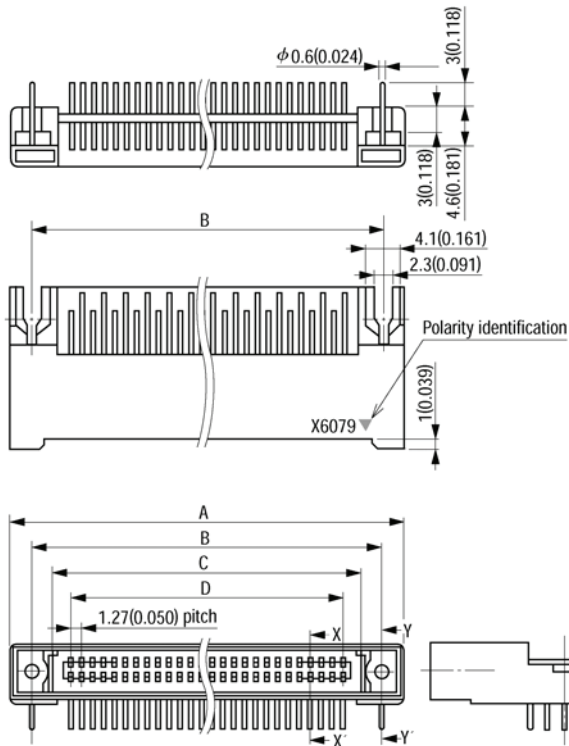
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3M™ Pak 50 Plug

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Right Angle



Printed Circuit Board Layout (Component Side View)



▽ = Polarity identification
 Recommended PCB Thickness $t = 1.6 \pm 0.19 (0.063 \pm 0.007)$
 n is number of contacts.

Ordering Information

P50 - XXXPG - XXX - EA (RIA E1 and C1 apply)

Contact Quantity:
See Table

Solder Tail Options:
S1 = Straight
SR1 = Right Angle

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RIA-2217B-E

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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