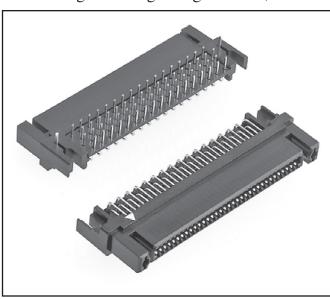
3M[™] Pak 50 Power Ground Socket

.050" Straight and Right Angle Socket, 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-2052-C Sheet 1 of 3

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 Retainer Clips: Tin-Copper

Mating Compatibility: TS-2051

Electrical

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

Insulation Resistance: $> 1 \times 10^9 \,\Omega$ min. 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 Sockets Contact Contact В С D Quantity Quantity 25.43 20.32 15.43 11.43 44.48 39.37 34.48 30.48 20 50 [1.001] [0.800] [0.607] [1.751] [1.550] [1.357] [1.200] 45.75 [1.801] 24.13 29.24 19.24 15.24 40.64 35.75 31.75 26 52 [1.151] [0.950] [0.757][1.593][1.407] [1.250] 17.78 [0.700] 21.78 31.78 50.83 45.72 40.83 26.67 36.83 30 60 [1.251][1.050][0.857][2.001] [1.800][1.607][1.450]33.05 19.05 50.80 45.91 27.94 55.91 41.91 32 68 mm [1.301] [1.100][0.907][0.750][2.201] [2.000][1.807][1.650] [Inch] 34.32 29.21 24.32 20.32 63.53 58.42 53.53 49.53 Tolerance Unless Noted 34 80 [1.351] [1.150] [0.957] [0.800] [2.501] [2.300] [2.107] [1.950] 0.0 mm ± .10 38.13 33.02 28.13 71.12 66.23 62.23 24.13 76.23 100 40 [] Dimensions used for [1.501] [0.950] [3.001] [2.800] [2.450] [1.300] [1.107] [2.607]Reference Only Straight X-X´ Cross Section 11.2(0.441) (0.118) 9.7(0.382) .0.0.0.0.0.0.0//0.0.0.0.0.0.0.0 Ref. 6.6(0.260) Ref. 1.905 Polarity identification Y-Y' Cross Section 3(0.118) 11.2(0.441) (0.075)0000000000000 **Printed Circuit Board Layout** (Component Side View) For 20,32,40,52,60,68,80,100 contacts For 26,30,34,50 contacts 2-φ0.8 min.(2-φ0.032 min.) -φ 0.8 min.(2-φ 0.032 min.) n- φ0.8 min.(φ0.032 min.) n- φ0.8 min.(φ0.032 min.) 1.905±0.05 (0.075±0.002) 1.905±0.05 (0.075±0.002) 5.715±0.05 (0.225±0.002) 5.715±0.05 0.225±0.002) 1.27±0.05(0.050±0.002) 1.27±0.05(0.050±0.002) D±0.1(D±0.004) D±0.1(D±0.004) B±0.15(B±0.006) B±0.15(B±0.006) Recommended PCB Thickness $t=1.6\pm0.19(0.063\pm0.007)$ "n" is number of contacts. TS-2052-C Sheet 2 of 3

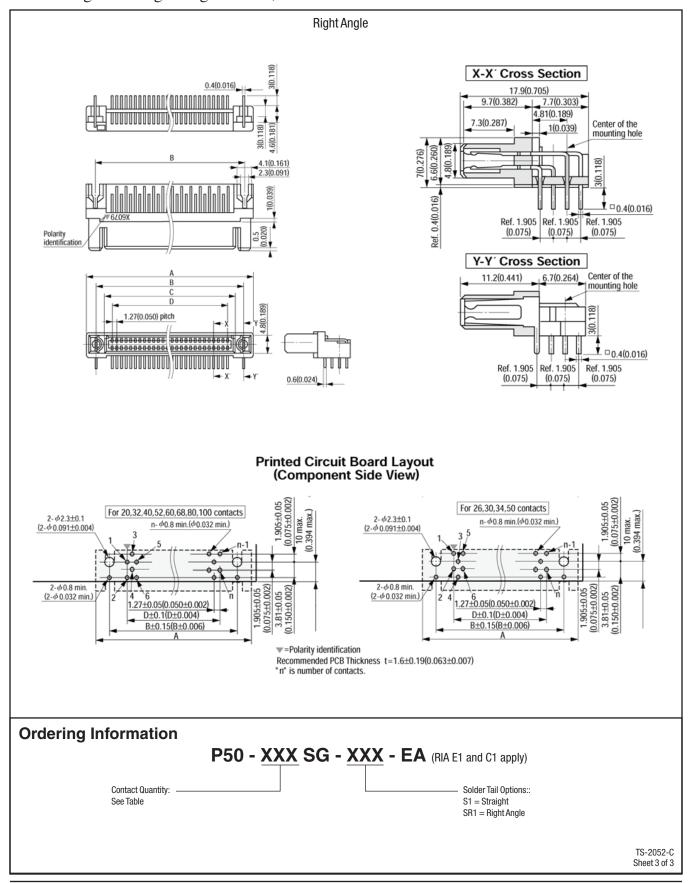
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