

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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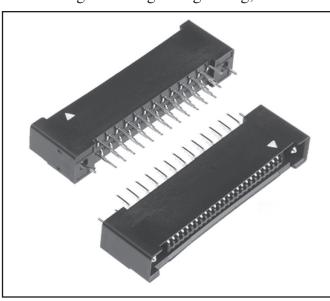






.050" Straight and Right Angle Plug, with Power Ground Pin

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 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-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

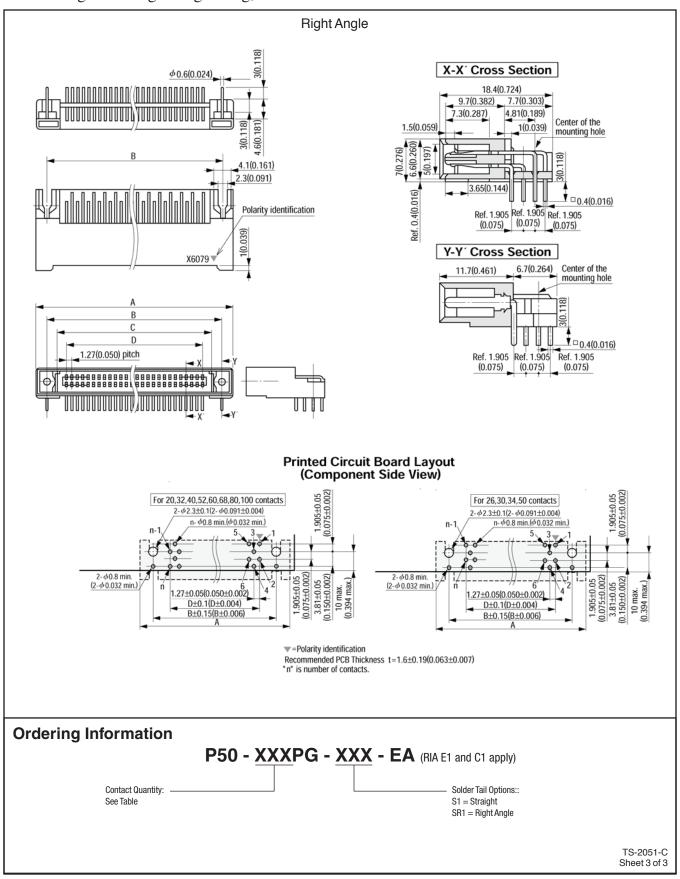
Process Rating: 260°C Wave Solder Compatible

UL File No.: E68080

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

Product Table / Dimensions for Straight and Right Angle Plugs Contact Quantity Contact Quantity С В С D 25.43 [1.001] 20.32 [0.800] 15.83 44.48 [1.751] 39.37 34.88 30.48 11.43 20 50 [1.550] [0.450][1.373] [0.623][1.200] 29.24 24.13 19.64 15.24 45.75 40.64 36.15 31.75 26 52 [1.151][0.950] [0.773][0.600][1.801][1.593][1.423] [1.250] 31.78 26.67 22.18 17.78 50.83 45.72 41.23 36.83 30 60 [1.251] [1.050] [0.873][0.700][2.001] [1.800][1.623] [1.450]33.05 [1.301] 19.05 [0.750] 55.91 [2.201] 50.8 [2.000] 27.94 46.31 41.91 23.45 32 68 [1.823] [1.100][0.923][1.650] 34.32 63.53 49.53 29.21 24.72 20.32 58.42 53.93 34 80 [1.351][1.150][0.973][0.800][2.501][2.300][2.123][1.950]38.13 33.02 28.53 24.13 76.23 71.12 66.63 62.23 40 100 [1.123] [1.501] [1.300][0.950][3.001][2.800] [2.623][2.450] Straight X-X' Cross Section 0.0.0.0.0.0.0.\\0.0.0.0.0.0.0. 11.7(0.461) (0.118) 9.7(0.382) 1(0.039) .3(0.287) ϕ 0.6(0.024) Ref. Polarity identification 6.6(0.260) 7(0.276) 1(0.039) 3.65(0.144) X6079 Y-Y' Cross Section В 11.7(0.461) 1.27(0.050) pitch 6.6(0.260) 4.65(0.183) **Printed Circuit Board Layout** (Component Side View) For 26,30,34,50 contacts For 20,32,40,52,60,68,80,100 contacts φ0.8 min.(2-φ0.032 min.) 2-φ0.8 min.(2-φ0.032 min.) ϕ 0.8 min.(ϕ 0.032 min. ϕ 0.8 min.(ϕ 0.032 min. 1.905±0.05 0.075±0.002) (0.075 ± 0.002) 5.715±0.05 (0.225±0.002) 6 4 64 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-2051-C Sheet 2 of 3

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



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