

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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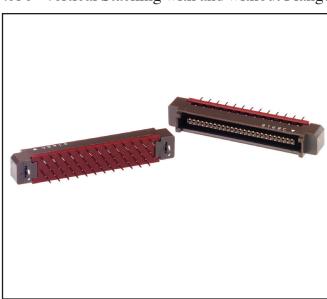




3M[™] Pak 50 Low Profile Plug

.050" Vertical Stacking with and without Flanges

P50L Series



- Low profile offers mating heights between 0.276" 0.472" (7-12 mm) for board stacking applications
- High temperature insulator compatible with IR and wave soldering
- Guide posts for easy mating/unmating
- Retention clips stabilize connector to the board during wave soldering
- 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: August 4, 2010

TS-2053-C Sheet 1 of 3

Physical

Insulator:

Material: Glass Filled PPS

Flammability: UL 94V-0

Color: Black

Contact Material: Phosphor Bronze

Plating:

Underplating: Nickel
Wiping Area: Gold Flash
Solder Tails: Gold Flash
Retaining Clips: Tin-Copper

Mating Compatibility: TS-1146, TS-2054

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

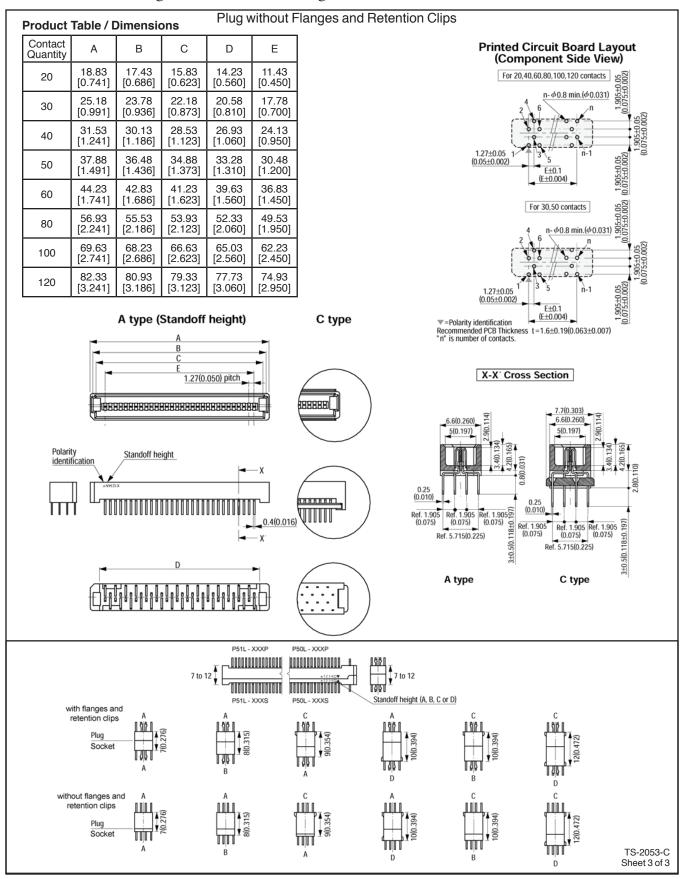
Process Rating: 260°C MSL1 (per J-STD-020C)

UL File No.: E68080

.050" Vertical Stacking with and without Flanges

Plug with Flanges and Retention Clips **Product Table / Dimensions** Contact F G Type Quantity 3.50 0.80 Α 17.43 25.43 20.32 15.83 11.43 [0.138][0.032]20 [1.001][0.800][0.686][0.623][0.450]5.50 2.80 С 31.78 26.67 23.78 22.18 17.78 [0.217] [0.110] 30 [1.251] [1.050] [0.936] [0.873] [0.700] 24.13 [0.950] 38.13 33.02 20.13 28.53 40 [1.501] [1.300][1.186] [1.123]44.48 39.37 36.48 34.88 30.48 50 [1.751][1.550][1.436][1.373][1.200]**Printed Circuit Board Layout** (Component Side View) 50.83 45.72 42.83 41.23 36.83 60 [2.001] [1.800] [1.686] [1.623] [1.450] For 20,40,60,80,100,120 contacts n- \phi 0.8 min.(\phi 0.031) 63.53 58.42 55.53 53.93 49 53 80 [2.501] [2.300] [1.950]2-\$\phi 2.3\pm 0.1 (\$\phi 0.091\pm 0.004) [2.186] [2.123] 66.63 62.23 76.23 71.12 68.23 100 [3.001][2.800] [2.686][2.623][2.450]88.93 83.82 80.93 79.33 74.93 1.27±0.05(0.05±0.002) 120 [3.501] [3.300] [3.186] [3.123] [2.950] E±0.1(E±0.004) A type (Standoff height) C type For 30,50 contacts n- \(\phi 0.8 \text{ min.(} \(\phi 0.031 \) 2-φ2.3±0.1 (φ0.091±0.004) 1.27(0.050) pitch 1.27±0.05(0.05±0.002) 88888 Recommended PCB Thickness $t=1.6\pm0.19(0.063\pm0.007)$ "n" is number of contacts. Polarity Standoff height identification X-X Cross Section 6.6(0.260) 0.4(0.016) 8 Ref. 1.905 (0.075) Ref. 1.905 (0.075) Ref. 1.905 (0.075) (0.010) Ref. 1.905 Ref. 5.715(0.225) Ref. 5.715(0.225) Plugs/Sockets with flanges and retention clips are not interchangeable A type C type with plugs/sockets without flanges and retention clips **Ordering Information** P5XL - XXXP - X - DA (RIA E1 and C1 apply) 0 = With Flanges and Retention Clips A = Type A1 = Without Flanges and Retention Clips C = Type CContact Quantity See Table TS-2053-C Sheet 2 of 3

.050" Vertical Stacking with and without Flanges



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