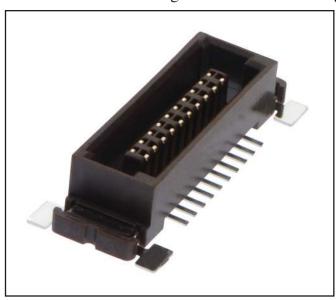
# 3M<sup>™</sup> Pak 50 Low Profile Plug

.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

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

Contact	I A	В	С	D	E	F	G	
Quantity 20	24.03	21.03	17.43	15.83	13.13	11.43	14.23	Printed Circuit Board Layout (Component Side View)
30	[0.946]	[0.828]	[0.686]	[0.623]	[0.517] 19.48	[0.450]	[0.560]	*Ref. \$\phi 1.4\pm 0.05 \\ (0.055\pm 0.02) \\ \phi 1.1\pm 0.05 \\ \phi 0.02 \\ \phi 1.1\pm 0.05 \\ \phi 0.01 \\ \phi 0.05
40	[1.196] 36.73	33.73	[0.936]	[0.873]	[0.767] 25.83	[0.700]	[0.810]	(0.157±0.002) (0.157±0.002) (0.8±0.05 (0.075±0.002) (0.050±0.002) (0.050±0.002) (0.050±0.002) (0.050±0.002)
50	[1.446]	[1.328] 40.08	36.48	34.88	32.18	30.48	33.28	(0.063±0.002)
60	[1.696]	[1.578] 46.43	[1.436] 42.83	[1.373]	38.53	36.83	[1.310] 39.63	(0.378±0.002)
80	[1.946] 62.13	[1.828] 59.13	[1.686] 55.53	[1.623] 53.93	51.23	[1.450] 49.53	[1.560] 52.33	(0.087±0.005) 1-1 10.003 3(0.118)
100	74.83	71.83	[2.186] 68.23	[2.123] 66.63	[2.017] 63.93	[1.950] 62.23	[2.060] 65.03	0.087
120	[2.946] 87.53	[2.828]	[2.686]	79.33	[2.517] 76.63	[2.450] 74.93	[2.560] 77.73	<ul> <li>▼=Polarity identification</li> <li>"n" is number of contacts.</li> <li>* 1.4 and 1.9 are the recommend hole sizes when using automated placement</li> </ul>
	[3.446]	[3.328]	[3.186]	[3.123]	[3.017]	[2.950]	[3.060]	equipment. Precision of the placement equipment should be considered.
Name								
Contact Quantity: ————————————————————————————————————								
								TS-2056-B Sheet 2 of 2

# **Important Notice** All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M. Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. 3M MAKES NO OTHER WARRANTIES

INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of

3M is a trademark of 3M Company.

the legal theory asserted.

6801 River Place Blvd. Austin, TX 78726-9000

www.3Mconnector.com

U.S.A. 1-800-225-5373

**3M Electronics Solutions Division**