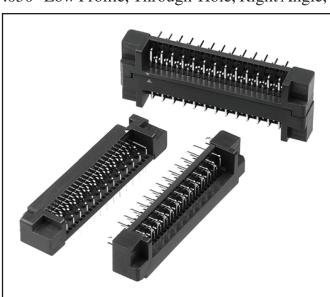
# 3M<sup>™</sup> Pak 50 Low Profile Plug

.050" Low Profile, Through-Hole, Right Angle, Boardmount

**P50L Series** 



- Low profile 0.276" (7 mm) from PCB surface
- High temperature insulator compatible with IR and wave soldering
- Optional plug standoffs allow offset of mated board by 1.0 - 4.0 mm
- 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: February 10, 2010

TS-1161-B Sheet 1 of 2

## **Physical**

#### **Insulator:**

Material: Glass Filled PPS

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-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

P50L Series

.050" Low Profile, Through-Hole, Right Angle, Boardmount

Product Table / Dimensions for Obstitution of Florings with the City of City o								
Product Table / Dimensions for Straight with Flanges, with or without Retention Clips  Contact  X-X' Cross Section								
Quantity	Α	В	С	D	E	F	G	X-X´ Cross Section
20	25.43 [1.001]	20.32 [0.800]	17.43 [0.686]	15.83 [0.623]	11.43 [0.450]	14.23 [0.560]	14.23 [0.560]	5.2(0.205) 5.8(0.228) Center of the mounting hole
30	31.78 [1.251]	26.67 [1.050]	23.78 [0.936]	22.18 [0.873]	17.78 [0.700]	20.58 [0.810]	20.58 [0.810]	3.4(0.134) 2.905(0.114) 2.905(0.114) 2.905(0.114) 2.905(0.114) 2.905(0.114) 2.905(0.114) Ref. 1.905(0.075) Ref. 3.81(0.150)
40	38.13 [1.501]	33.02 [1.300]	30.13 [1.186]	28.53 [1.123]	24.13 [0.950]	26.93 [1.060]	26.93 [1.060]	
50	44.48 [1.751]	39.37 [1.550]	36.48 [1.436]	34.88 [1.373]	30.48 [1.200]	33.28 [1.310]	33.28 [1.310]	
60	50.83 [2.001]	45.72 [1.800]	42.83 [1.686]	41.23 [1.623]	36.83 [1.450]	39.63 [1.560]	39.63 [1.560]	
80	63.53 [2.501]	58.42 [2.300]	55.53 [2.186]	53.93 [2.123]	49.53 [1.950]	52.33 [2.060]	52.33 [2.060]	
100	76.23 [3.001]	71.12 [2.800]	68.23 [2.686]	66.63 [2.623]	62.23 [2.450]	65.03 [2.560]	65.03 [2.560]	
120	88.93 [3.501]	83.82 [3.300]	80.93 [3.186]	79.33 [3.123]	74.93 [2.950]	77.73 [3.060]	77.73 [3.060]	
Printed Circuit Board Layout (Component Side View)  For 20.40.60.80.100.120 contacts  1.2-\(\theta\) 2.3\(\theta\) 1.1  Edge of the Poboard 1.2-\(\theta\) 0.5 min (\(\delta\) 0.001  Pro 30.50 contacts  1.2-\(\delta\) 2.3\(\theta\) 1.1  For 30.50 contacts  1.2-\(\delta\) 0.5 min (\(\delta\) 0.001  Pro 30.50 contacts  1.2-\(\delta\) 0.5 min (\(\delta\) 0.005  Pro 30.50 co								
Contact Quantity: ————————————————————————————————————								
								TS-1161-B Sheet 2 of 2

Sheet 2 of 2

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