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

.050" Low Profile, Right Angle Stacking Socket

**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 11, 2010

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## **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-1145, TS-1161, TS-2053

### **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" Low Profile, Right Angle Stacking Socket

.050 Low Frome, Right Migie Stacking Socket							
Product Table / Dimensions							
Contact Quantity	А	В	С	D	E	F	X-X' Cross Section
20	25.43 [1.001]	20.32 [0.800]	17.03 [0.670]	15.43 [0.607]	11.43 [0.450]	14.23 [0.560]	Center of the
30	31.78 [1.251]	26.67 [1.050]	23.38 [0.920]	21.78 [0.857]	17.78 [0.700]	20.58 [0.810]	0.8(0.031) 4.6(0.181) 5.8(0.228) mounting hole 3.4(0.134) 2.905(0.114)
40	38.13 [1.501]	33.02 [1.300]	29.73 [1.170]	28.13 [1.107]	24.13 [0.950]	26.93 [1.060]	
50	44.48 [1.751]	39.37 [1.550]	36.08 [1.420]	34.48 [1.357]	30.48 [1.200]	33.28 [1.310]	V <u> </u>
60	50.83 [2.001]	45.72 [1.800]	42.43 [1.670]	40.83 [1.607]	36.83 [1.450]	39.63 [1.560]	(9100) 0.25(0.010) 0.25(0.075) Ref. 1.905(0.075)
80	63.53 [2.501]	58.42 [2.300]	55.13 [2.170]	53.53 [2.107]	49.53 [1.950]	52.33 [2.060]	Ref. 1.905(0.075) Ref. 1.905(0.075)
100	76.23 [3.001]	71.12 [2.800]	67.83 [2.670]	66.23 [2.607]	62.23 [2.450]	65.03 [2.560]	Ref. 3.81(0.150)
120	88.93 [3.501]	83.82 [3.300]	80.53 [3.170]	78.93 [3.107]	74.93 [2.950]	77.73 [3.060]	<b>91</b> °
Printed Circuit Board Layout (Component Side View)  For 20,40,60,80,100,120 contacts  n/2-φ0.8 min.(φ0.031)  2-φ2.3±0.1 (φ0.091±0.004)  For 30,50 contacts  n/2-φ0.8 min.(φ0.031)  2-φ2.3±0.1 (φ0.091±0.004)  B±0.15(B±0.006)  For 30,50 contacts  n/2-φ0.65 min (φ0.091±0.004)  Edge of the PC board  PC board						1,905±0.05 (0.075±0.002) (0.075±0.002) (0.0	Polarity identification  RR1 - DA (RIA E1 and C1 apply)
		Contact Qu See Table	-				
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