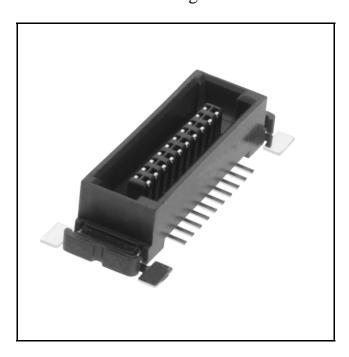
# 3M<sup>™</sup> Pak 50 Low Profile Plug

.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

Date Modified: October 2, 2006

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## **Physical**

#### Insulation

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
Retainer Clips: Tin-Copper

### **Electrical**

Current Rating: 0.5 A

**Insulation Resistance:**  $10^3 \Omega$  at 500 VDC **Withstanding Voltage:** 650 VAC for 1 minute

## **Environmental**

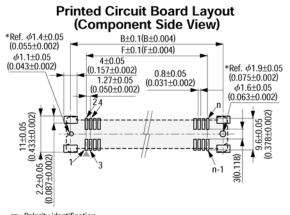
**Temperature Rating:**  $-55^{\circ}C$  to  $+85^{\circ}C$ 

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

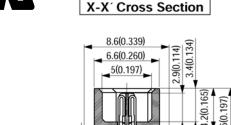
\*"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated in writing by 3M, this information represents 3M's knowledge and belief based on information provided by third party suppliers to 3M.

UL File No.: E68080

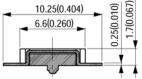
#### .050" Surfacemount Plug .276" and .315" Mating Heights **Product Table / Dimensions** Contact $\mathbf{C}$ D E G Quantity \*Ref. $\phi$ 1.4±0.05 (0.055±0.002) 24.03 21.03 17.43 15.83 13.13 11.43 14.23 φ1.1±0.05 [0.946][0.828][0.686] [0.623][0.517][0.450] [0.560] $(0.043\pm0.002)$ 30.38 27.38 23.78 22.18 19.48 17.78 20.58 40 36.73 33.73 28.53 [1.446] 50 43.08 36.48 34.88 32.18 [1.696] [1.578] [1.436] [1.373] [1.267] [1.200] [1.310] 60 49.43 46.43 42.83 41.23 [1.946] [1.828] [1.623] [1.517] [1.450] [1.560] [1.686] 80 62.13 59.13 55.53 53.93 51.23 49.53 [2.446][2.328] [2.186] [2.123] [2.017][1.950] [2.060] 100 74.83 66.63 [2.946] [2.686] [2.517] [2.450] [2.560] ■=Polarity identification 120 87.53 84.53 80.93 79.33 76.63 74.93 77.73 "n" is number of contacts. 3(0.118) Polarity identification 0.4(0.016)



 1.4 and 1.9 are the recommend hole sizes when using automated placement equipment. Precision of the placement equipment should be considered.







## **Ordering Information**

 $\phi$ 1.1(0.043)

P50L - XXXP - AS - DA

 $\phi$ 1.6(0.063)

Contact Quantity —— See Table

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0.8(0.031)

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