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

.050" Plug, (1.27) Straight, Right Angle and SMT, Low Profile

**P50LE Series** 



- Latch/eject mechanism maintains a secure connection
- Low profile 11.8 mm mated height when using the surfacemount version
- Mates to the P25LE wiremount socket
- 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

TS-1148-B Sheet 1 of 4

## **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-1142

### **Electrical**

**Current Rating:** 0.5 A

**Insulation Resistance:**  $> 1 \times 10^9 \,\Omega$  at  $250 \,V_{_{DC}}$ **Withstanding Voltage:**  $300 \,V_{_{AC}}$  for 1 minute

### **Environmental**

**Temperature Rating:** -55°C to +85°C

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

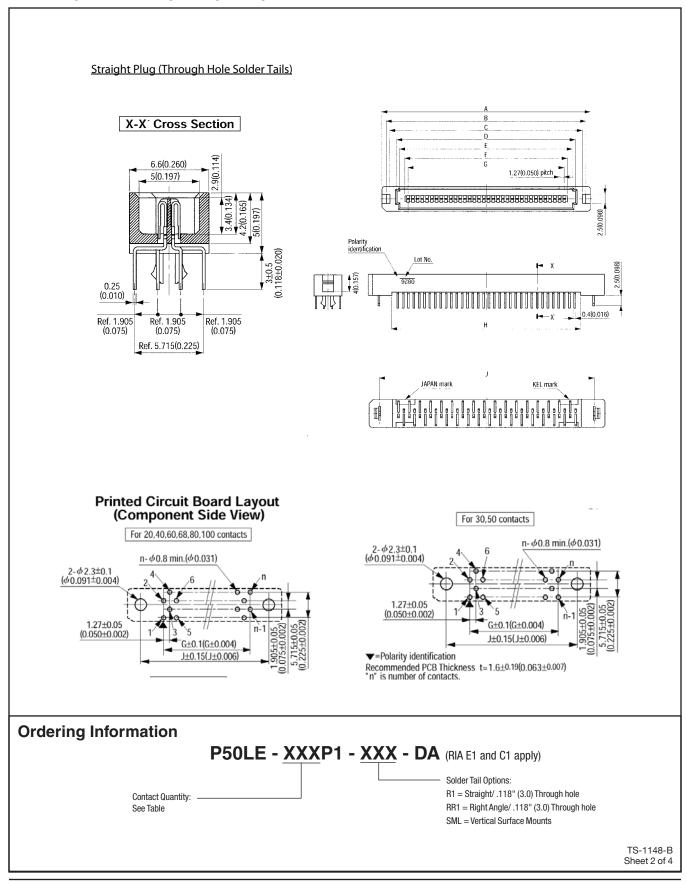
UL File No.: E68080

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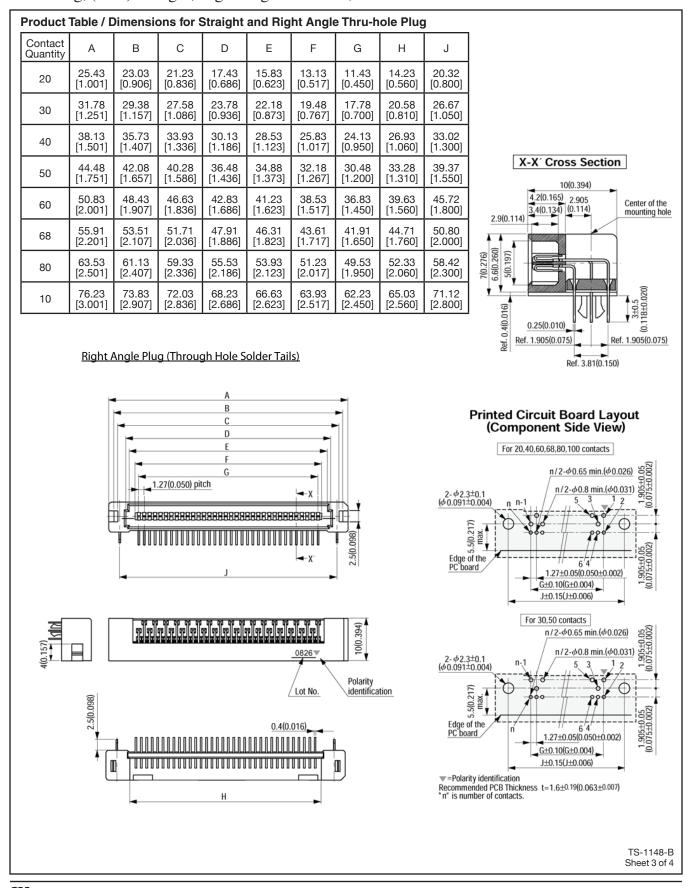
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#### **Product Table / Dimensions for SMT Plug** Contact D Ε F В G Н J Quantity 25.43 23.03 21.23 17.43 15.83 13.13 11.43 14.23 16.51 20 [1.001][0.907][0.836][0.686][0.623][0.517][0.450][0.560][0.650]31.78 29.38 27.58 23.78 22.18 19.48 17.78 20.58 22.86 30 [1.251][1.157][1.086][0.936][0.873][0.767][0.700][0.810][0.900]38.13 35.73 33.93 30.13 28.53 25.83 26.93 29.21 40 [1.501][1.407][1.336][1.186][1.123][1.017][0.950][1.060][1.150] 42.08 35.56 44.48 40.28 36.48 34.88 32.18 30.48 33.28 50 [1.751][1.657][1.586][1.436][1.373][1.267][1.200][1.310][1.400]36.83 50.83 48.43 46.63 42.83 41.23 38.53 39.63 41.91 60 [2.001][1.907][1.836][1.686][1.623][1.517][1.450][1.560][1.650]41.91 55.91 53.51 51.71 47.91 46.31 43.61 44.71 46.99 68 [2.201][2.107][2.036][1.760][1.886][1.823][1.717][1.650][1.850]55.53 49.53 52.33 63.53 61.13 59.33 53.93 51.23 54.61 80 [2.060][2.501][2.407][2.336][2.186][2.123][2.017][1.950][2.150]76.23 73.83 72.03 68.23 66.63 63.93 62.23 65.03 67.31 100 [3.001] [2.907][2.836][2.686][2.623] [2.517][2.450][2.560][2.650 Straight Plug (SMT) X-X´ Cross Section 1.27(0.050) pitch 8.6(0.340) 6.6(0.260) 5(0.197) .4(0.134) .2(0.165) Polarity identification **₽**66 0.8(0.031)∳ ঔ $\phi$ 0.8(0.031) 0.4(0.016) φ1.3(0.051) **Printed Circuit Board Layout** (Component Side View) J±0.1(J±0.004) G±0.1(G±0.004) 1.27±0.05 $(0.05\pm0.002)$ $0.8\pm0.05$ φ1.6±0.05 (0.03±0.002) $(\phi 0.06\pm 0.002)$ lead end 1.27±0.4(0.050±0.016) $\phi$ 1.1 $\pm$ 0.05 $(\phi 0.04\pm 0.002)$ 3(0.118) ▼=Polarity identification TS-1148-B "n" is number of contacts. Sheet 4 of 4

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