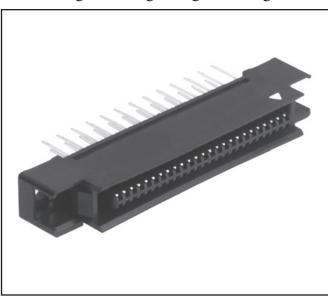
3M[™] Pak 50 Boardmount Plug

.050" Straight and Right Angle, Through-Hole

P50E Series



- P50E Plug offers straight and right angle throughhole options
- Right angle P50E Plug comes with and without retention clips
- Latch/eject mechanism maintains a secure connection
- Mates to the P25E, P50E, and P50 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: January 31, 2011

TS-1144-B Sheet 1 of 3

Physical

Insulation:

Material: Glass Filled Nylon

Flammability: UL 94V-0

Color: Black

Contact:

Material: Copper Alloy

Plating:

Underplating: Nickel

Wiping Area: $10 \mu'' [0.25 \mu m]$ Gold

Solder Tails: Gold Flash Retention Clips: Tin-Copper

Mating Compatibility: TS-1143, TS-1141, TS-2047

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 Wave Solder Compatible

UL File No.: E68080

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Electronic Solutions Division Interconnect Solutions
http://www.3Mconnector.com

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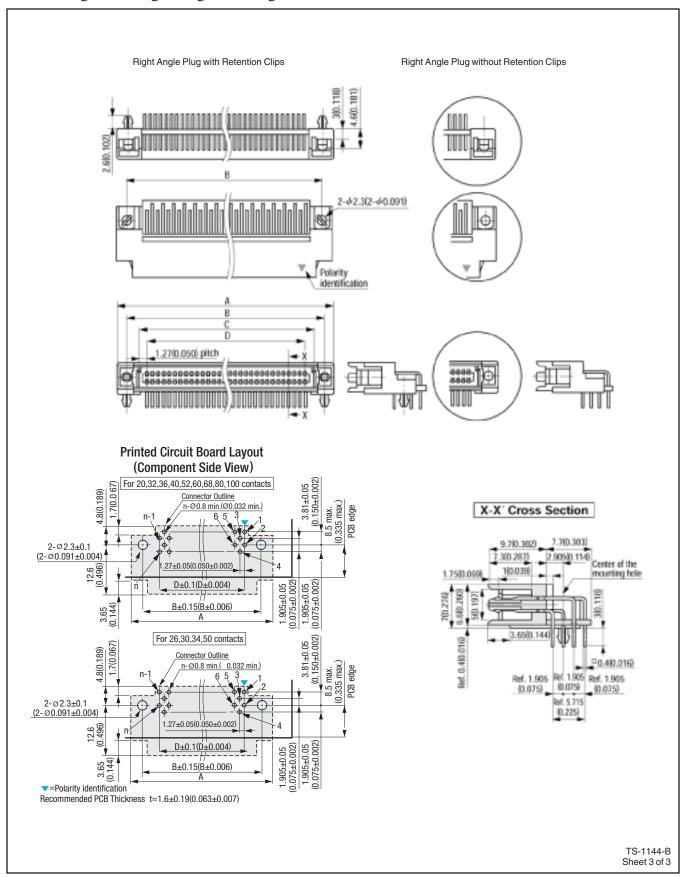
P50E Series

.050" Straight and Right Angle, Through-Hole Product Table / Dimensions (For Straight and Right Angles) Contact Quantity 27.83 22.86 15.83 11.43 20 [0.900] [1.096] [0.450] [0.623]X-X´ Cross Section 31.64 26.67 19.64 15.24 26 [1.246] [1.050] [0.773][0.600]Ref. 1.905 (0.075) 34.18 29.21 17.78 30 [1.346][1.150][0.873][0.700]1.75(0.069) 19.05 35.45 30.48 23.45 6.6(0.260) 32 [1.396][1.200][0.923][0.750]36.72 31.75 24.72 20.32 34 [1.446] [0.973][0.800] [1.250]3.65(0.144) 0.4(0.016) 33.02 21.59 37.99 25 99 36 [0.850][1.496][1.300][1.023]40.53 35.56 28.53 24.13 40 [1.596] [1.400][1.123][0.950]41.91 34.88 30.48 46.88 50 [1.846][1.650][1.200]36.15 48.15 43.18 31.75 52 [1.896] [1.700] [1.423] [1.250]53.23 48.26 41.23 36.83 60 [2.096] [1.900] [1.623] [1.450] 46.31 58.31 53.34 41.91 **Printed Circuit Board Layout** 68 [2.100][1.823][1.650](Component Side View) 65.93 60.96 53.93 49 53 80 For 20,32,36,40,52,60,68,80,100 contacts [2.596][2.400][2.123][1.950]3.3(0.130) Connector Outline 78.63 62.23 73.66 66.63 100 [3.096] [2.900] [2.450] [2.623]1.905±0.05 (0.075±0.002) 5.715±0.05 (0.225±0.002) straight Plug 2-Ø2.3+0.1 1.27+0.05 (2-Ø0.091±0.004) D±0.1(D±0.004) B±0.15(B±0.006) For 26,30,34,50 contacts Connector Outline 130) Polarity identification 1.27±0.05 6 (0.050±0.002) 5.715±0.05 (0.225±0.002) 2-Ø2.3±0.1 1.905±0.05 (0.075±0.002) (2-Ø0.091±0.004) D±0.1(D±0.004) 2-\$\phi 2.3(2-\$\phi 0.091) B±0.15(B±0.006) 1.27(0.050) pitch =Polarity identification Recommended PCB Thickness $t=1.6\pm0.19(0.063\pm0.007)$ 1.4(0.055) **Ordering Information P50E - XXXP1 - XXX - EA** Solder Tail/Clip Options: S1 = Straight tails, without Retention Clips Contact Quantity: SR1 = Right angle tails, without Retention Clips See Table RR1 = Right angle tails, with Retention Clips TS-1144-B Sheet 2 of 3

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Electronic Solutions Division Interconnect Solutions http://www.3Mconnector.com

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6801 River Place Blvd. Austin, TX 78726-9000 U.S.A. 1-800-225-5373 www.3Mconnector.com

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