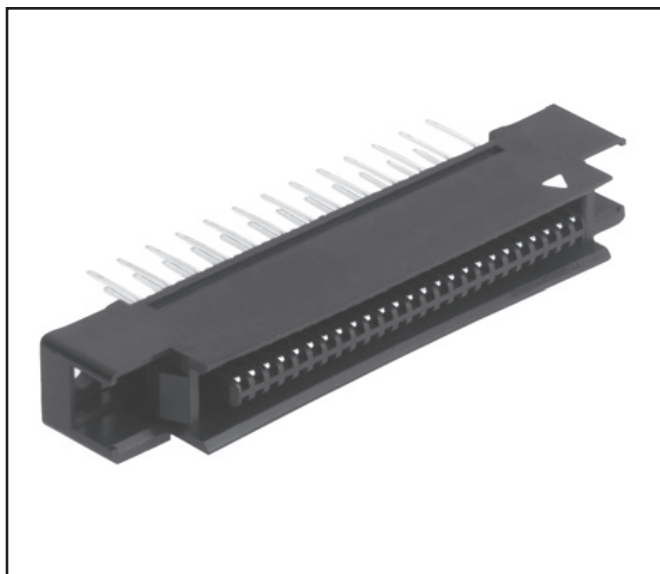


# 3M™ Pak 50 Boardmount Plug

.050" Straight and Right Angle, Through-Hole

P50E Series



- P50E Plug offers straight and right angle through-hole 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](http://www.3Mconnector.com) for compliance information (RIA E1 and C1 apply)

Date Modified: January 31, 2011

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## 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

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## Electrical

**Current Rating:** 0.5 A

**Insulation Resistance:**  $> 1 \times 10^9 \Omega$  at 500 V<sub>DC</sub>

**Withstanding Voltage:** 650 V<sub>AC</sub> for 1 minute

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## Environmental

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

**Process Rating:** 260°C Wave Solder Compatible

UL File No.: E68080



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**800-225-5373**

# 3M™ Pak 50 Boardmount Plug

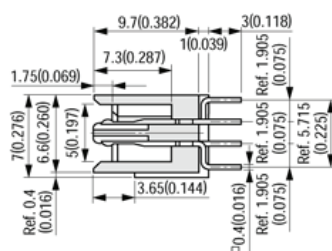
.050" Straight and Right Angle, Through-Hole

P50E Series

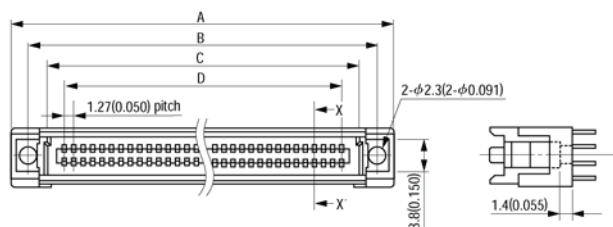
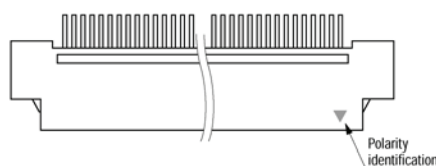
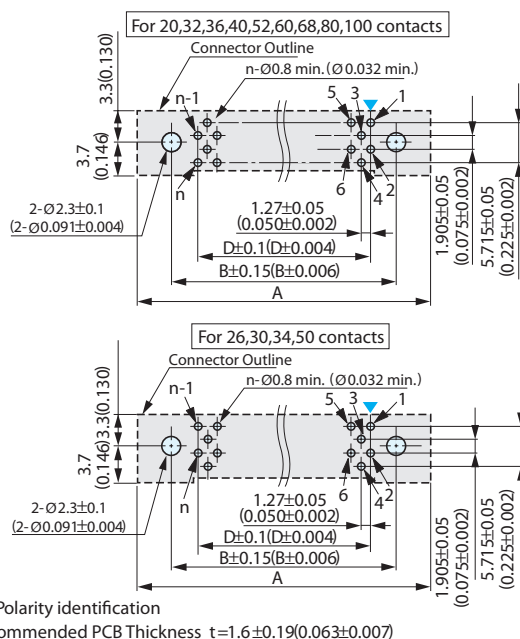
Product Table / Dimensions (For Straight and Right Angles)

| Contact Quantity | A                | B                | C                | D                |
|------------------|------------------|------------------|------------------|------------------|
| 20               | 27.83<br>[1.096] | 22.86<br>[0.900] | 15.83<br>[0.623] | 11.43<br>[0.450] |
| 26               | 31.64<br>[1.246] | 26.67<br>[1.050] | 19.64<br>[0.773] | 15.24<br>[0.600] |
| 30               | 34.18<br>[1.346] | 29.21<br>[1.150] | 22.18<br>[0.873] | 17.78<br>[0.700] |
| 32               | 35.45<br>[1.396] | 30.48<br>[1.200] | 23.45<br>[0.923] | 19.05<br>[0.750] |
| 34               | 36.72<br>[1.446] | 31.75<br>[1.250] | 24.72<br>[0.973] | 20.32<br>[0.800] |
| 36               | 37.99<br>[1.496] | 33.02<br>[1.300] | 25.99<br>[1.023] | 21.59<br>[0.850] |
| 40               | 40.53<br>[1.596] | 35.56<br>[1.400] | 28.53<br>[1.123] | 24.13<br>[0.950] |
| 50               | 46.88<br>[1.846] | 41.91<br>[1.650] | 34.88<br>[1.373] | 30.48<br>[1.200] |
| 52               | 48.15<br>[1.896] | 43.18<br>[1.700] | 36.15<br>[1.423] | 31.75<br>[1.250] |
| 60               | 53.23<br>[2.096] | 48.26<br>[1.900] | 41.23<br>[1.623] | 36.83<br>[1.450] |
| 68               | 58.31<br>[2.296] | 53.34<br>[2.100] | 46.31<br>[1.823] | 41.91<br>[1.650] |
| 80               | 65.93<br>[2.596] | 60.96<br>[2.400] | 53.93<br>[2.123] | 49.53<br>[1.950] |
| 100              | 78.63<br>[3.096] | 73.66<br>[2.900] | 66.63<br>[2.623] | 62.23<br>[2.450] |

X-X' Cross Section



Printed Circuit Board Layout (Component Side View)



## Ordering Information

P50E - XXXP1 - XXX - EA

Contact Quantity:  
See Table

Solder Tail/Clip Options:  
S1 = Straight tails, without Retention Clips  
SR1 = Right angle tails, without Retention Clips  
RR1 = Right angle tails, with Retention Clips

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Sheet 2 of 3

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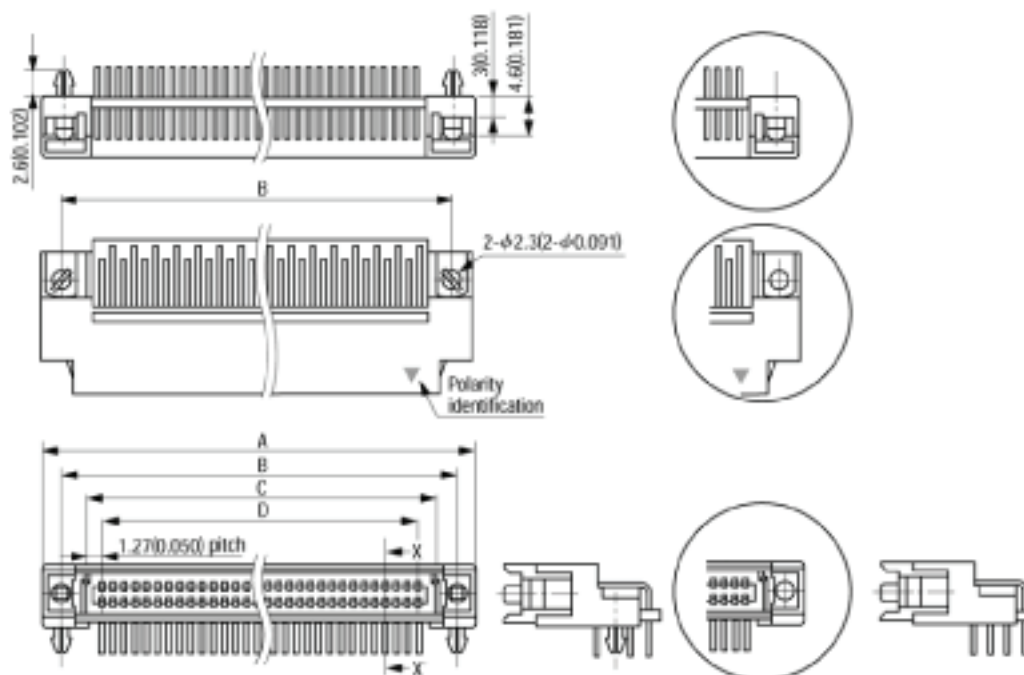
# 3M™ Pak 50 Boardmount Plug

.050" Straight and Right Angle, Through-Hole

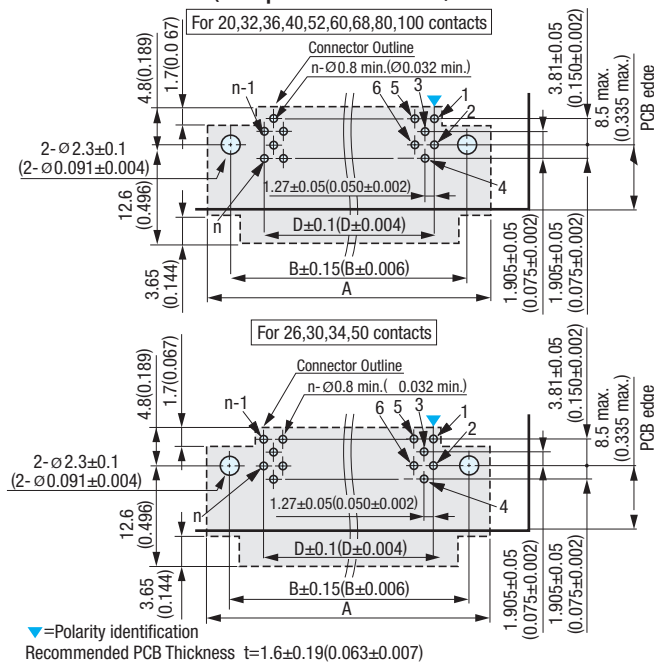
P50E Series

Right Angle Plug with Retention Clips

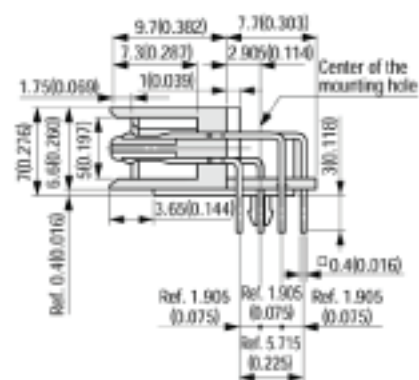
Right Angle Plug without Retention Clips



Printed Circuit Board Layout  
(Component Side View)



X-X' Cross Section



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Sheet 3 of 3

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