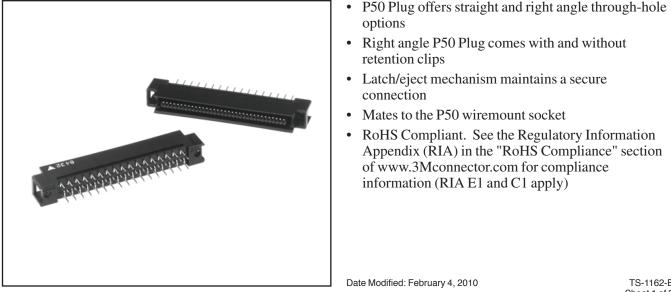
## 3M<sup>™</sup> Pak 50 I/O Plug

### .050" Straight and Right Angle, Through-Hole, Boardmount

P50 Series



## **Physical**

### **Insulator:**

Material: Glass Filled Nylon Flammability: UL 94V-0 Color: Black Contact Material: Phosphor Bronze **Plating:** Underplating: Nickel Wiping Area:  $10 \mu''$  [  $0.25 \mu m$  ] Gold Solder Tails: Gold Flash Retaining Clips: Tin-Copper Mating Compatibility: TS-2047

## **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

## **Environmental**

Temperature Rating: -55°C to +85°C

Process Rating: 260°C Wave Solder Compatible

UL File No.: E68080

TS-1162-B Sheet 1 of 3

## 3M<sup>™</sup> Pak 50 I/O Plug

.050" Straight and Right Angle, Through-Hole, Boardmount

#### Product Table / Dimensions for Straight and Right Angle Plug Contact А В С D Quantity 25.43 20.32 15.83 11.43 20 [1.001] [0.800] [0.623] [0.450] 24.13 [0.950] 15.24 29.24 19.64 26 [0.600] [1.151] [0.773] 31.78 26.67 22.18 17.78 30 [1.050] [0.873] [1.251] [0.700] 33.05 27.94 23.45 19.05 32 [0.923] [1.301] [1.100] [0.750] 34.32 29.21 24.72 20.32 34

-				
Contact Quantity	А	В	С	D
40	38.13	33.02	28.53	24.13
	[1.501]	[1.300]	[1.123]	[0.950]
50	44.48	39.37	34.88	30.48
	[1.751]	[1.550]	[1.373]	[1.200]
52	45.75	40.64	36.15	31.75
	[1.801]	[1.600]	[1.423]	[1.250]
60	50.83	45.72	41.23	36.83
	[2.001]	[1.800]	[1.623]	[1.450]
68	55.91	50.80	46.31	41.91
	[2.201]	[2.000]	[1.823]	[1.650]

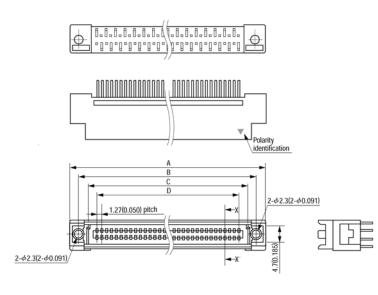
#### Straight Plug

[1.150]

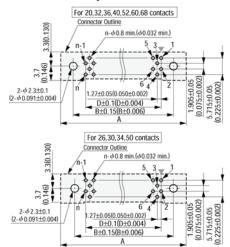
[0.973]

[0.800]

[1.351]

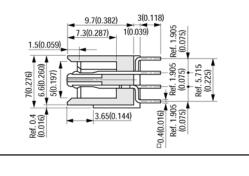


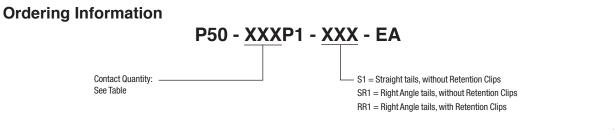
#### **Printed Circuit Board Layout** (Component Side View)



=Polarity identification Recommended PCB Thickness t=1.6±0.19(0.063±0.007) "n" is number of contacts.

X-X Cross Section





TS-1162-B Sheet 2 of 3

#### 3M

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

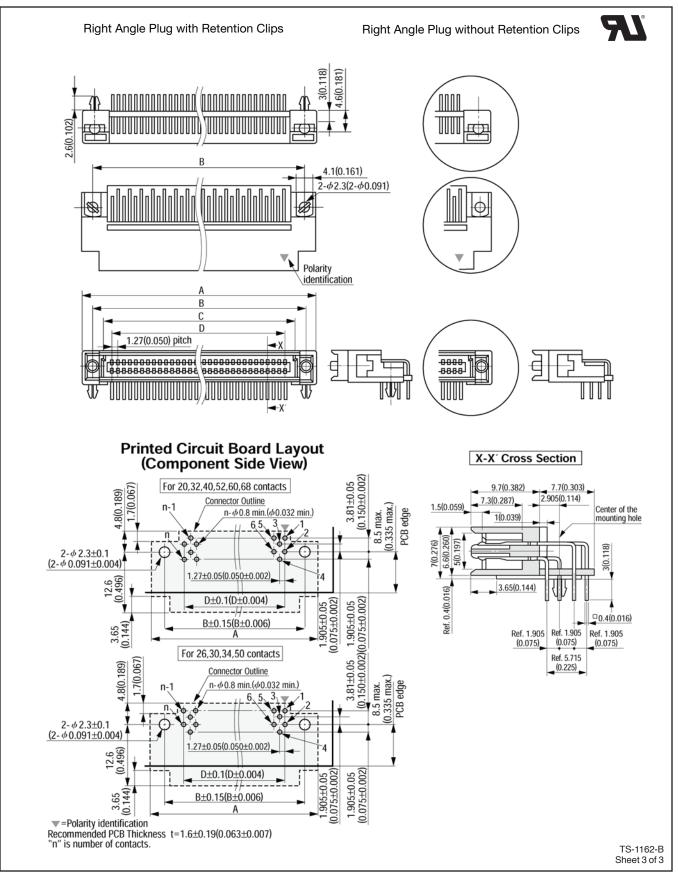
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### P50 Series

**A** I

# 3M<sup>™</sup> Pak 50 I/O Plug

.050" Straight and Right Angle, Through-Hole, Boardmount



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