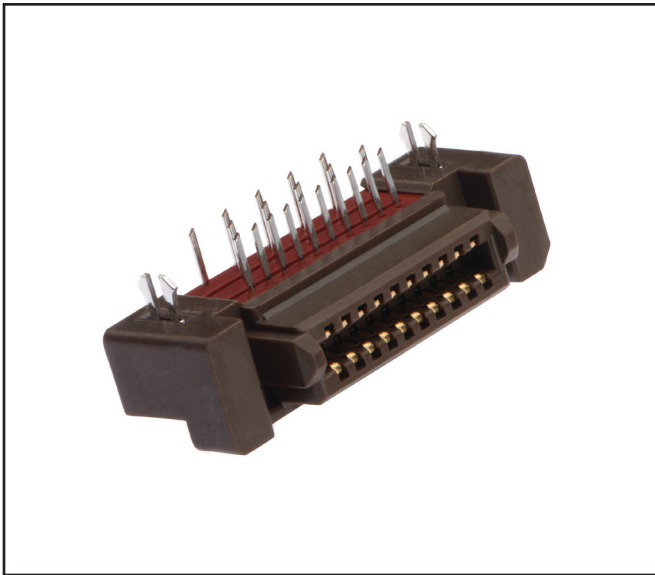


# 3M™ Pak 50 Low Profile Socket

.050" Low Profile, Right Angle Stacking Socket

P50L Series



- Low profile 0.276" (7 mm) from PCB surface
- High temperature insulator compatible with IR and wave soldering
- Optional plug standoffs allow offset of mated board by 1.0 - 4.0 mm
- Retention clips stabilize connector to the board during wave soldering
- 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: February 11, 2010

TS-1146-B  
Sheet 1 of 2

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## 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-1145, TS-1161, TS-2053

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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 MSL1 (per J-STD-020C)

UL File No.: E68080

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# 3M™ Pak 50 Low Profile Socket

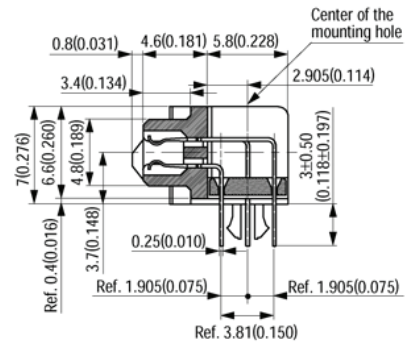
.050" Low Profile, Right Angle Stacking Socket

P50L Series

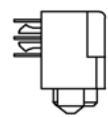
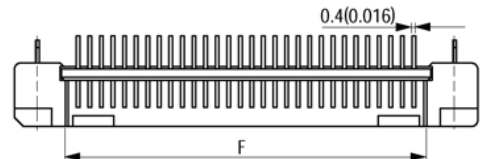
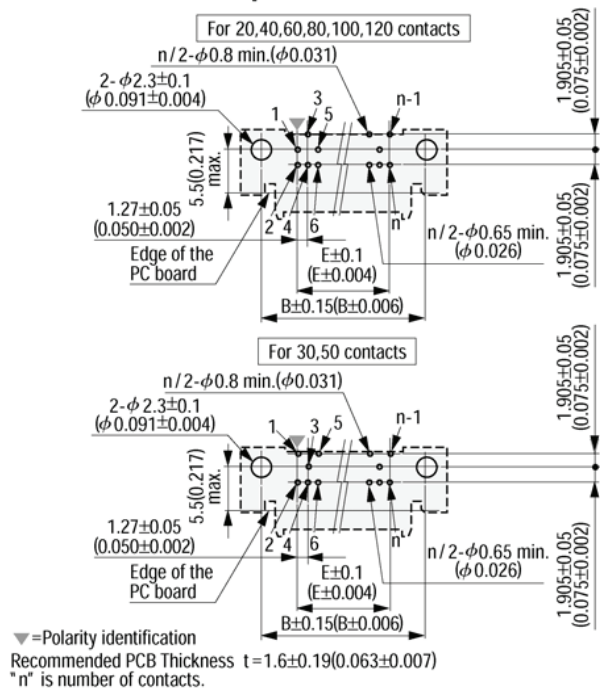
## Product Table / Dimensions

Contact Quantity	A	B	C	D	E	F
20	25.43 [1.001]	20.32 [0.800]	17.03 [0.670]	15.43 [0.607]	11.43 [0.450]	14.23 [0.560]
30	31.78 [1.251]	26.67 [1.050]	23.38 [0.920]	21.78 [0.857]	17.78 [0.700]	20.58 [0.810]
40	38.13 [1.501]	33.02 [1.300]	29.73 [1.170]	28.13 [1.107]	24.13 [0.950]	26.93 [1.060]
50	44.48 [1.751]	39.37 [1.550]	36.08 [1.420]	34.48 [1.357]	30.48 [1.200]	33.28 [1.310]
60	50.83 [2.001]	45.72 [1.800]	42.43 [1.670]	40.83 [1.607]	36.83 [1.450]	39.63 [1.560]
80	63.53 [2.501]	58.42 [2.300]	55.13 [2.170]	53.53 [2.107]	49.53 [1.950]	52.33 [2.060]
100	76.23 [3.001]	71.12 [2.800]	67.83 [2.670]	66.23 [2.607]	62.23 [2.450]	65.03 [2.560]
120	88.93 [3.501]	83.82 [3.300]	80.53 [3.170]	78.93 [3.107]	74.93 [2.950]	77.73 [3.060]

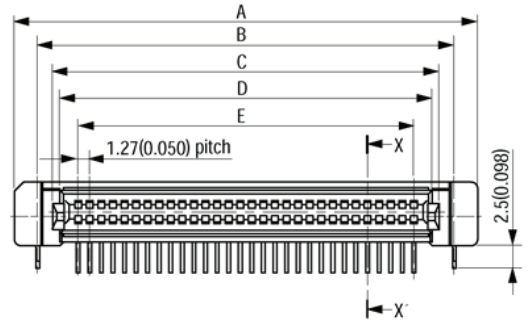
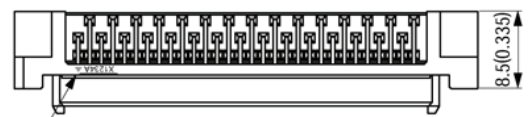
## X-X' Cross Section



## Printed Circuit Board Layout (Component Side View)



Polarity identification



## Ordering Information

**P50L - XXXS - RR1 - DA** (RIA E1 and C1 apply)

Contact Quantity: \_\_\_\_\_  
See Table

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