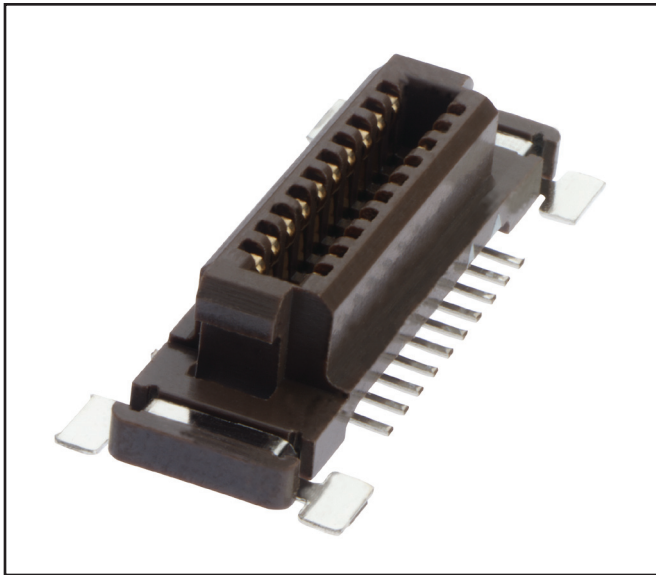


# 3M™ Pak 50 Socket

.050" Surfacement Socket .276" and .315" Mating Heights

P50L Series



- Low profile 0.276" - 0.315" (7-8 mm) addresses surfacement board stacking applications
- High temperature insulator compatible with IR and wave soldering
- Solder brackets increase connector stability to protect contact solder joint integrity
- Polarized alignment posts ensure correct mating
- 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 17, 2010

TS-2055-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-2056

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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 Socket

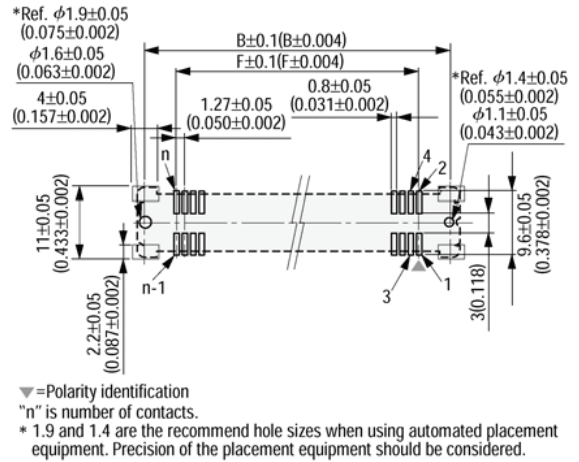
.050" Surfacemount Socket .276" and .315" Mating Heights

P50L Series

## Product Table / Dimensions

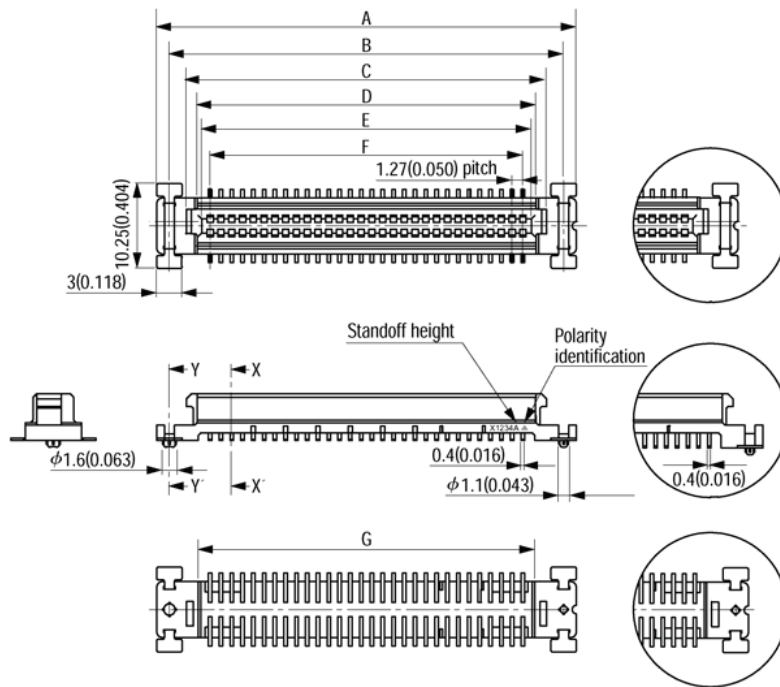
Contact Quantity	A	B	C	D	E	F	G
20	24.03 [0.946]	21.03 [0.828]	17.03 [0.670]	14.23 [0.560]	13.43 [0.529]	11.43 [0.450]	14.23 [0.560]
30	30.38 [1.196]	27.38 [1.078]	23.38 [0.920]	20.58 [0.810]	19.78 [0.779]	17.78 [0.700]	20.58 [0.810]
40	36.73 [1.446]	33.73 [1.328]	29.73 [1.170]	26.93 [1.060]	26.13 [1.029]	24.13 [0.950]	26.93 [1.060]
50	43.08 [1.696]	40.08 [1.578]	36.08 [1.420]	33.28 [1.310]	32.48 [1.279]	30.48 [1.200]	33.28 [1.310]
60	49.43 [1.946]	46.43 [1.828]	42.43 [1.670]	39.63 [1.560]	38.83 [1.529]	36.83 [1.450]	39.63 [1.560]
80	62.13 [2.446]	59.13 [2.328]	55.13 [2.170]	52.33 [2.060]	51.53 [2.029]	49.53 [1.950]	52.33 [2.060]
100	74.83 [2.946]	71.83 [2.828]	67.83 [2.670]	65.03 [2.560]	64.23 [2.529]	62.23 [2.450]	65.03 [2.560]
120	87.53 [3.446]	84.53 [3.328]	80.53 [3.170]	77.73 [3.060]	76.93 [3.029]	74.93 [2.950]	77.73 [3.060]

## Printed Circuit Board Layout (Component Side View)

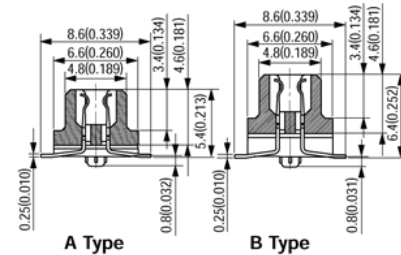


### A Type (Standoff height)

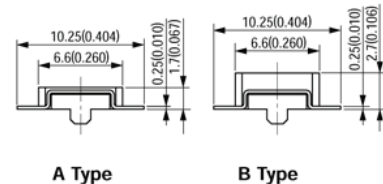
### B Type



### X-X' Cross Section



### Y-Y' Cross Section



## Ordering Information

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

Contact Quantity:  
See Table

AS = SMT, Type A  
BS = SMT, Type B

TS-2055-B  
Sheet 2 of 2

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