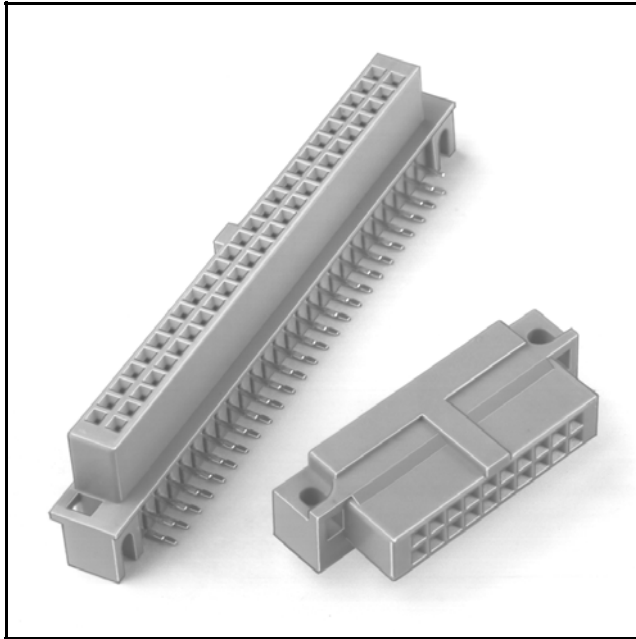


# 3M™ Polarized Boardmount Socket

.100" × .100" Centerbump Polarization with Right Angle Solder Tails

5100 Series



- Centerbump polarization
- Mates with standard low profile shrouded headers
- Part number on each piece
- Optional keying plug
- RoHS\* compliant version (PL plating) available

Date Modified: September 1, 2005

TS-0414-10  
Sheet 1 of 2

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## Physical

### Insulation

Material: Glass Filled Polyester (PBT)

Flammability: UL 94V-0

Color: Gray

### Contact

Material: Copper Alloy

### Plating

Underplating and U-Slot: 2  $\mu\text{m}$  [ 79  $\mu\text{in}$  ] Nickel

Wiping Area: 0.3  $\mu\text{m}$  [ 12  $\mu\text{in}$  ] Gold

Solder Tails: Tin Lead or Gold flash (see ordering information)

Marking: 3M Logo, Part Identification Number and Orientation Triangle

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## Electrical

Current Rating: 1 A

Insulation Resistance:  $> 1 \times 10^9 \Omega$  at 500 VDC

Withstanding Voltage: 1000 Vrms at Sea Level

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## Environmental

Temperature Rating: -55°C to +105°C

\*RoHS = Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment  
"RoHS compliant" means that the product or part does not contain any of the following substances in excess of the following maximum concentration values in any homogeneous material, unless the substance is in an application that is exempt under RoHS: (a) 0.1% (by weight) for lead, mercury, hexavalent chromium, polybrominated biphenyls or polybrominated diphenyl ethers; or (b) 0.01% (by weight) for cadmium. Unless otherwise stated by 3M in writing, this information represents 3M's knowledge and belief based upon information provided by third party suppliers to 3M.

UL File No.: E68080

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5100 Series

Contact Quantity	Dimensions		
	A	B	C
20	38.1 [ 1.50 ]	33.0 [ 1.30 ]	30.0 [ 1.18 ]
26	45.7 [ 1.80 ]	40.6 [ 1.60 ]	37.6 [ 1.48 ]
30	50.8 [ 2.00 ]	45.7 [ 1.80 ]	42.7 [ 1.68 ]
34	55.9 [ 2.20 ]	50.8 [ 2.00 ]	47.7 [ 1.88 ]
40	63.5 [ 2.50 ]	58.4 [ 2.30 ]	55.4 [ 2.18 ]
50	76.2 [ 3.00 ]	71.1 [ 2.80 ]	68.1 [ 2.68 ]
60	88.9 [ 3.50 ]	83.8 [ 3.30 ]	80.8 [ 3.18 ]
64	93.9 [ 3.70 ]	88.9 [ 3.50 ]	85.8 [ 3.38 ]

**3M**

**Recommended Mounting Hole Pattern**  
(Shown for top side of PC board)

mm [Inch]			
Tolerance Unless Noted			
	.0	.00	.000
-mm	±.3	±.15	

[ ] Dimensions for Reference only

**3435-0 Keying Plug**  
(Optional: Order Separately)

**Note:**  
1. Recommended to be mated to the .100" x .100" low profile header and the 4600 series plug connector. note the ejector latches cannot be used with the 4600 series plug.

## Ordering Information

**Sockets**  
**51XX-B7A2XL**

Contact Quantity:  See Table

Tail plating:  
J = Tin-lead  
P = Gold flash (RoHS compliant)

TS-0414-10  
Sheet 2 of 2

## Important Notice

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*Minimum 10%  
Post-Consumer Fiber*

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