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. See the Regulatory Information Appendix (RIA) in the “RoHS Compliance” section of www.3Mconnectors.com for compliance information (RIA E1 and C1 apply).

**Physical**

**Insulation:**
- Material: Glass Filled Polyester (PBT)
- Flammability: UL 94V-0
- Color: Gray

**Contact:**
- Material: Copper Alloy

**Plating:**
- Underplating: 2 μm [ 79 μ” ] Nickel
- Wiping Area: 0.3 μm [ 12 μ” ] Gold
- Solder Tails: Gold Flash
- **Marking:** 3M Logo, Part Identification Number and Orientation Triangle

**Electrical**

**Current Rating:** 1 A

**Insulation Resistance:** > 1 × 10¹⁰Ω at 500 Vdc

**Withstanding Voltage:** 1,000 V RMS at Sea Level

**Environmental**

**Temperature Rating:** -55°C to +105°C

**Process Rating:** Maximum insulator temperature 191°C (Solder Wave Process Only)

UL File No.: E68080

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For technical, sales or ordering information call
800-225-5373
**3M™ Polarized Boardmount Socket**

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

5100 Series

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### Ordering Information

**Sockets**

51XX-B7A2PL  (RA (E1 & C1 Apply))

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**Designation:**

- **A**
- **B**
- **C**

**Contact Quantity**

<table>
<thead>
<tr>
<th>Contact Quantity</th>
<th>Dimensions (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>25.4 [1.00]</td>
</tr>
<tr>
<td>20</td>
<td>38.1 [1.50]</td>
</tr>
<tr>
<td>26</td>
<td>45.7 [1.80]</td>
</tr>
<tr>
<td>30</td>
<td>50.8 [2.00]</td>
</tr>
<tr>
<td>34</td>
<td>55.9 [2.20]</td>
</tr>
<tr>
<td>40</td>
<td>63.5 [2.50]</td>
</tr>
<tr>
<td>50</td>
<td>76.2 [3.00]</td>
</tr>
<tr>
<td>60</td>
<td>88.9 [3.50]</td>
</tr>
<tr>
<td>64</td>
<td>93.9 [3.70]</td>
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</tbody>
</table>

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**Note:**

1. Recommended to be mated to the 2.54 [0.100] × 2.54 [0.100] low profile header and the 4600 series plug connector. Note the ejector latches cannot be used with the 4600 series.

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**Keying Plug**

(3435-0) (Optional: Order Separately)

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**Recommended Mounting Hole Pattern**

(Shown for top side of PC board)

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**Dimensions for Reference only**

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>mm</th>
<th>inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>±0.00</td>
<td>±0.00</td>
<td>±0.00</td>
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Electronic Solutions Division
Interconnect Solutions
http://www.3Mconnectors.com
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