SlimStack Board-to-Board Connectors, 0.80mm Pitch, Floating Series

SlimStack B-to-B Connectors, 0.80mm Pitch, Floating Series feature a floating structure for space savings and easy assembly, and various mating height options in vertical and right-angle orientation for design flexibility.

Features and Advantages

- **Rigid-type connectors** available in 10 to 40 circuits
  - Meets a wide range of application requirements
- **Floating receptacle structure**
  - Reduces printed wiring board (PWB) gap
  - Facilitates assembly in the event of misalignment or blind joining
- **Different stack height options; vertical and right-angle orientation**
  - Offers design flexibility for specific space requirements
- **Mating guide key**
  - Ensures correct mating

<table>
<thead>
<tr>
<th>Lineup Combination</th>
<th>Receptacle</th>
<th>Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Floating Type</strong></td>
<td>52588</td>
<td>53307 53364 53353 53309</td>
</tr>
<tr>
<td>Mated Height (mm)</td>
<td>5.50 to 8.00</td>
<td>5.50 7.00 8.00 6.65</td>
</tr>
<tr>
<td><strong>Rigid Type</strong></td>
<td>52465</td>
<td>53307 53364 53353 53309</td>
</tr>
<tr>
<td>Mated Height (mm)</td>
<td>4.50 to 7.00</td>
<td>4.50 6.00 7.00 5.65</td>
</tr>
</tbody>
</table>

**Applications**

- **Automotive**
  - Car infotainment
- **Consumer**
  - Smart speakers
  - Home appliances
- **Datacom**
  - Servers
  - Office equipment
- **Industrial**
  - Automation machines
Extracted Text:

**SlimStack Board-to-Board Connectors, 0.80mm Pitch, Floating Series**

### Specifications

**REFERENCE INFORMATION**
- Packaging: Embossed Tape and Reel
- Designed In: Millimeters
- RoHS: Yes
- Halogen Free: No

**ELECTRICAL**
- Voltage (max.): 50V
- Current (max.): 0.5A per circuit
- Contact Resistance (max.):
  - 40 milliohms (mate with 52588 series)
  - 20 milliohms (mate with 52465 series)
- Dielectric Withstanding Voltage (min.): 500V AC
- Insulation Resistance (min.): 100 Megohms

**PHYSICAL**
- Housing: PA, UL 94V-0
- Contact: Copper Alloy
- Plating:
  - Contact Area – Refer to ordering information
  - Solder Tail Area – Refer to ordering information
  - Underplating – Nickel
- Operating Temperature: -40 to +105°C

**MECHANICAL**
- Mating Force (max.): Refer to product specifications
- Unmating Force (min.): Refer to product specifications
- Durability (max.): 30 cycles

### Dimensions

Refer to drawing for detail dimension

### Ordering Information

<table>
<thead>
<tr>
<th>Structure</th>
<th>Order No.</th>
<th>Mated Height (mm)</th>
<th>Mated Width (mm)</th>
<th>Orientation</th>
<th>Boss</th>
<th>Plating</th>
<th>Circuits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floating Type</td>
<td>50588-**75</td>
<td>5.50</td>
<td>7.00</td>
<td>Vertical</td>
<td>Without Boss</td>
<td>Tin</td>
<td>18, 20, 30</td>
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<td></td>
<td></td>
<td></td>
<td>7.20</td>
<td></td>
<td>Without Boss</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>53367-**70</td>
<td>8.00</td>
<td>6.65</td>
<td>Right Angle</td>
<td>Without Boss</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>53367-**71</td>
<td></td>
<td>4.70</td>
<td></td>
<td>Without Boss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rigid Type</td>
<td>52465-**70</td>
<td>6.00</td>
<td>5.65</td>
<td>Vertical</td>
<td>Without Boss</td>
<td>Tin</td>
<td>10, 12, 20, 28, 30, 36, 40</td>
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<td></td>
<td></td>
<td>7.20</td>
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<td>With Boss</td>
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<td></td>
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<td></td>
<td></td>
<td></td>
<td>4.50</td>
<td>Right Angle</td>
<td>With Boss</td>
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<td>Without Boss</td>
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<td></td>
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<tr>
<td></td>
<td>52465-**62</td>
<td>5.65</td>
<td>4.70</td>
<td>Right Angle</td>
<td>Without Boss</td>
<td>Gold</td>
<td>20, 30, 32</td>
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<td></td>
<td>With Boss</td>
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</tbody>
</table>

**: circuit size

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