SlimStack Board-to-Board Connectors, 0.635mm Pitch, Floating Series

SlimStack Board-to-Board Connectors, 0.635mm Pitch, Floating Series feature a wide floating range with various circuit sizes and stacking heights while offering space savings, design flexibility and a simplified assembly process.

Features and Advantages

**Features and Advantages**

- **Polarization feature**
  - Prevents mismating

- **High-temperature support up to 125°C**
  - Provides improved design applicability

- **Available in various mated heights (12.00 to 16.00mm)**
  - Offers design flexibility

- **Wide floating range**
  - Simplifies mating process; facilitates assembly in the event of misalignment or blind joining

- **Metal cap for surface mounting**
  - Facilitates easy pick and place

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<table>
<thead>
<tr>
<th>LINE UP Combination</th>
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</thead>
<tbody>
<tr>
<td><strong>Series Number</strong></td>
</tr>
<tr>
<td>Receptacle</td>
</tr>
<tr>
<td>209168</td>
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<tr>
<td>Mated Height (mm)</td>
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</tbody>
</table>

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**Applications**

**Industrial**
- PLC/motion control units
- LED displays

**Automotive**
- Domain control units
- ADAS applications
- Car infotainment systems
Specifications

REFERENCE INFORMATION
Packaging: Embossed tape on reel (Connector with metal cap)
Designed In: Millimeters
RoHS: Yes

ELECTRICAL
Voltage (max.): 100V
Current (max.): 0.5A/circuit
Contact Resistance (max.): 80 Milliohms
Dielectric Withstanding voltage: 250V AC/1 min.
Insulation Resistance(min.): 1000 Megohms

MECHANICAL
Durability (max.): 50 cycles

PHYSICAL
Housing:
  Receptacle : LCP, UL 94V-0, Black
  Plug : LCP or PPS, UL 94V-0, Brown or Black
Contact: Copper Alloy
Fitting Nail : Copper Alloy
Plating: Contact Area — Gold
  Solder Tail Area — Gold Terminal
  / Tin (Nail)
Underplating — Nickel
Operating Temperature: -40 to +125°C

Dimensions

* Refer to drawing for detail dimension

Receptacle

0.635 x (N/2-1) + 12.495mm
0.635mm(Pitch)
10.10mm

Plug

0.635 x (N/2-1) + 7.505mm
0.635mm(Pitch)
5.20mm

Ordering Information

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<tr>
<th>Series No.</th>
<th>Part Number</th>
<th>Product Attribute</th>
<th>Stacking Height (mm)</th>
<th>Circuits</th>
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<td>209168xx1</td>
<td>Receptacle</td>
<td>12.00 to 16.00</td>
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<tr>
<td>55091</td>
<td>55091xx74</td>
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<td>12.00</td>
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www.molex.com/link/slimstack.html

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