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

SlimStack Board-to-Board Connectors 0.635mm Pitch Series offers a wide variety of circuit sizes and various stack heights for space savings and design flexibility in a diverse range of applications.

0.635mm Pitch Series has circuit sizes from 20 to 240. In addition, stack heights for this series is from 6.00mm to 16.00mm with same footprint. Molex Micro Solution design provides solutions for any market requirement.

Features and Advantages

- Long Effective Mating Length
- Removes foreign matter
- Mating Guide Key
- Accurate mating without right and left reversal

<table>
<thead>
<tr>
<th>Lineup Combination</th>
<th>Receptacle</th>
<th>Plug</th>
</tr>
</thead>
<tbody>
<tr>
<td>Series No.</td>
<td></td>
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<tr>
<td>52885</td>
<td>55091</td>
<td>53625</td>
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<tr>
<td>Circuits</td>
<td>20 to 240</td>
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</tr>
<tr>
<td>Mated Height (mm)</td>
<td>6.00 to 10.00</td>
<td>6.00</td>
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<tr>
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<td>12.00 to 16.00</td>
<td>12.00</td>
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Applications

- **Automotive**
  - Car Radar
  - Car Infotainment
- **Datacom**
  - Servers
  - Office Equipment
- **Industrial**
  - Automation Machines
- **Medical**
  - Patient Monitors
  - Ultrasound Monitors
- **Home Appliance**
  - Digital Electronics
- **Servers**
- **Automation Machine**
- **Car Infotainment**
**SlimStack Board-to-Board Connectors, 0.635mm Pitch Series**

**Specifications**

**REFERENCE INFORMATION**
- Packaging: Embossed Tape with Cover on Reel
- Designed In: Millimeters
- RoHS: Yes
- Halogen Free: Low-Halogen
  (52885/52901/55091 series only)

**ELECTRICAL**
- Voltage (max.): 100V
- Current (max.): 0.5A per circuit
- Contact Resistance (max.): 40 to 70 milliohms
  (varied by each part)
- Dielectric Withstanding Voltage: 250V AC
- Insulation Resistance (min.): 1000 Megohms

**MECHANICAL**
- Durability (max.): 50 cycles

**PHYSICAL**
- Housing:
  - Receptacle: LCP, UL-94V-0, White
  - Plug: LCP, UL-94V-0, Brown or Black
- Contact: Copper Alloy
- Fitting Nail: Copper Alloy
- Plating:
  - Contact Area – Gold
  - Solder Tail Area – Tin
  - Underplating – Nickel
- Operating Temperature: -55 to +105˚C

**Dimensions**

* Refer to drawing for detail dimension

**Receptacle**

- 0.635 x (N/2-1)+8.51 / 8.505mm

**Plug**

- 0.635 x (N/2-1)+7.51 / 7.505mm

**Ordering Information**

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**: circuit size

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APN/0k/GF/2018.08
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www.molex.com/link/slimstack.html