**SlimStack Board-to-Board Connectors, 0.40mm Pitch Floating, FSB Series**

SlimStack Board-to-Board Connectors, 0.40mm Pitch Floating, FSB Series feature 3.00 and 5.00mm stacking height with a large floating range for space-saving and design flexibility, making them ideal for a wide range of applications in the automotive, industrial, medical and consumer industries.

**Features and Advantages**

- ±0.30mm floating range in X-, Y- and Z- axis directions
  - Facilitates assembly in the event of misalignment or blind joining

- ±0.50mm floating range in X-, Y- and Z- axis directions
  - Facilitates assembly in the event of misalignment or blind joining

- Smallest size in the B-to-B floating connectors market
  - Provides space saving

**SlimStack FSB3 Series Connector**

- Soft floating force
  - Makes assembly and operations easy

**SlimStack FSB5 Series Connector**

- High-temperature support up to 125°C
  - Improved design applicability

- Low-halogen material
  - Meets industry environmental requirements

- High-speed transmission
  - Supports a high-speed transmission rate of up to 6 Gbps

**Applications**

**Automotive**
- Car cameras
- Car radar
- Car LiDAR
- Car infotainment
- Electric vehicle inverters
- Electric vehicle ADAS

**Industrial**
- Automation machines
- Transformers
- Test equipment

**Consumer**
- UAVs (drones)
- Gaming consoles
- Mini digital cameras
- Security cameras
SlimStack Board-to-Board Connectors, 0.40mm Pitch Floating, FSB Series

Specifications

REFERENCE INFORMATION
Packaging: Embossed Tape on Reel
Designed In: Millimeters
RoHS: Yes
Halogen Free: Low-halogen

MECHANICAL
Insertion force: Refer to specification
Withdrawal force: Refer to specification
Durability (max.): 30 cycles

ELECTRICAL
Voltage (max.): 40V (FSB5)
50V (FSB3)
Current (max.): 0.3A per circuit
Contact Resistance (max.): 80 milliohms
Dielectric Withstanding Voltage: 250V AC
Insulation Resistance (min.): 100 Megohms

PHYSICAL
Housing:
Receptacle: LCP, UL 94V-0, Black
Plug: LCP, UL 94V-0, Black

Terminal: Copper Alloy
Fitting Nail: Copper Alloy
Plating:
Terminal Contact Area — Gold (Au)
Solder Tail Area — Gold (Au)
Underplating — Nickel (Ni)
Fitting Nail
Solder Tail Area — Tin (Sn)
Underplating — Nickel (Ni)
Operating Temperature: -40 to +125°C

Dimensions
Refer to drawing for detail dimension

FSB3

0.40 x (N/2-1)+3.21mm

0.40mm (PITCH)

Receptacle

0.40 x (N/2-1)+5.40mm

0.40mm (PITCH)

Plug

FSB5

0.40 x (N/2-1)+1.77mm

0.40mm (PITCH)

Mated condition

0.40 x (N/2-1)+5.40mm

0.40mm (PITCH)

Ordering Information

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<th>Part Number</th>
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<th>Pitch (mm)</th>
<th>Circuits</th>
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www.molex.com/link/slimstack.html