

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



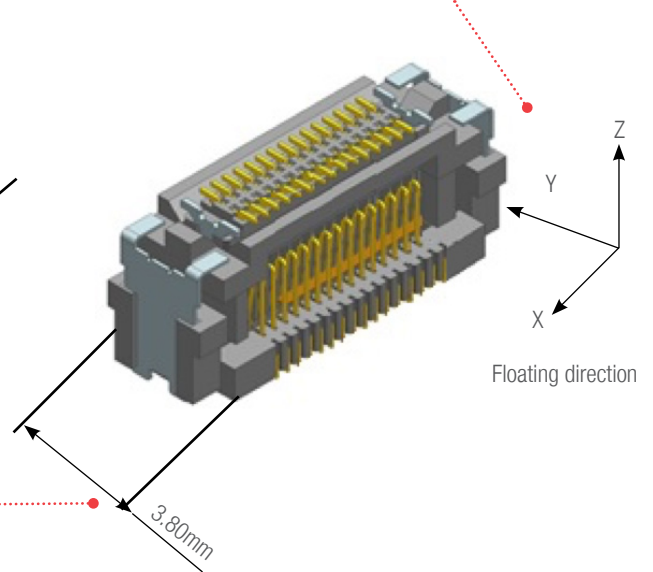
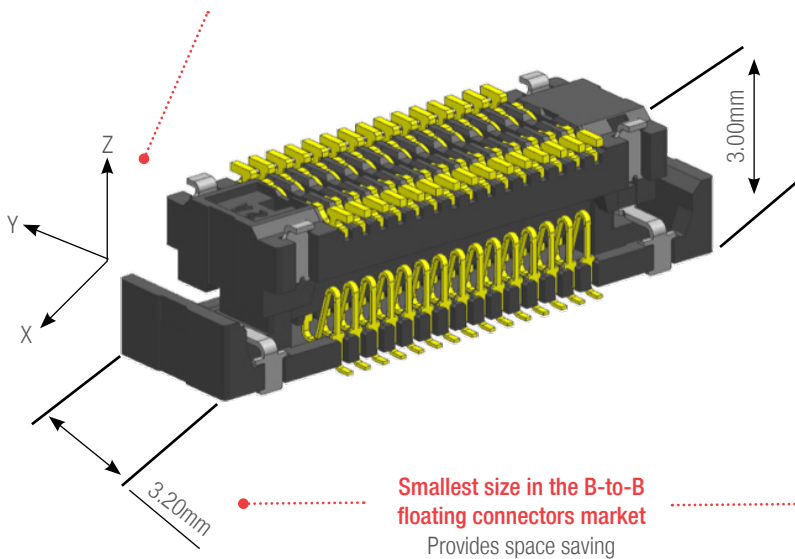
SlimStack Board-to-Board Connectors, 0.40mm Pitch Floating, FSB Series feature 3.00 and 5.00mm stacking height with a large floating range for space-saving and design flexibility, making them ideal for a wide range of applications in the automotive, industrial, medical and consumer industries



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

SlimStack FSB5 Series Connector

Soft floating force
Makes assembly and operations easy

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



Car Camera



Car Radar



Automation Machine

Industrial

- Automation machines
- Transformers
- Test equipment

Consumer

- UAVs (drones)
- Gaming consoles
- Mini digital cameras
- Security cameras

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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

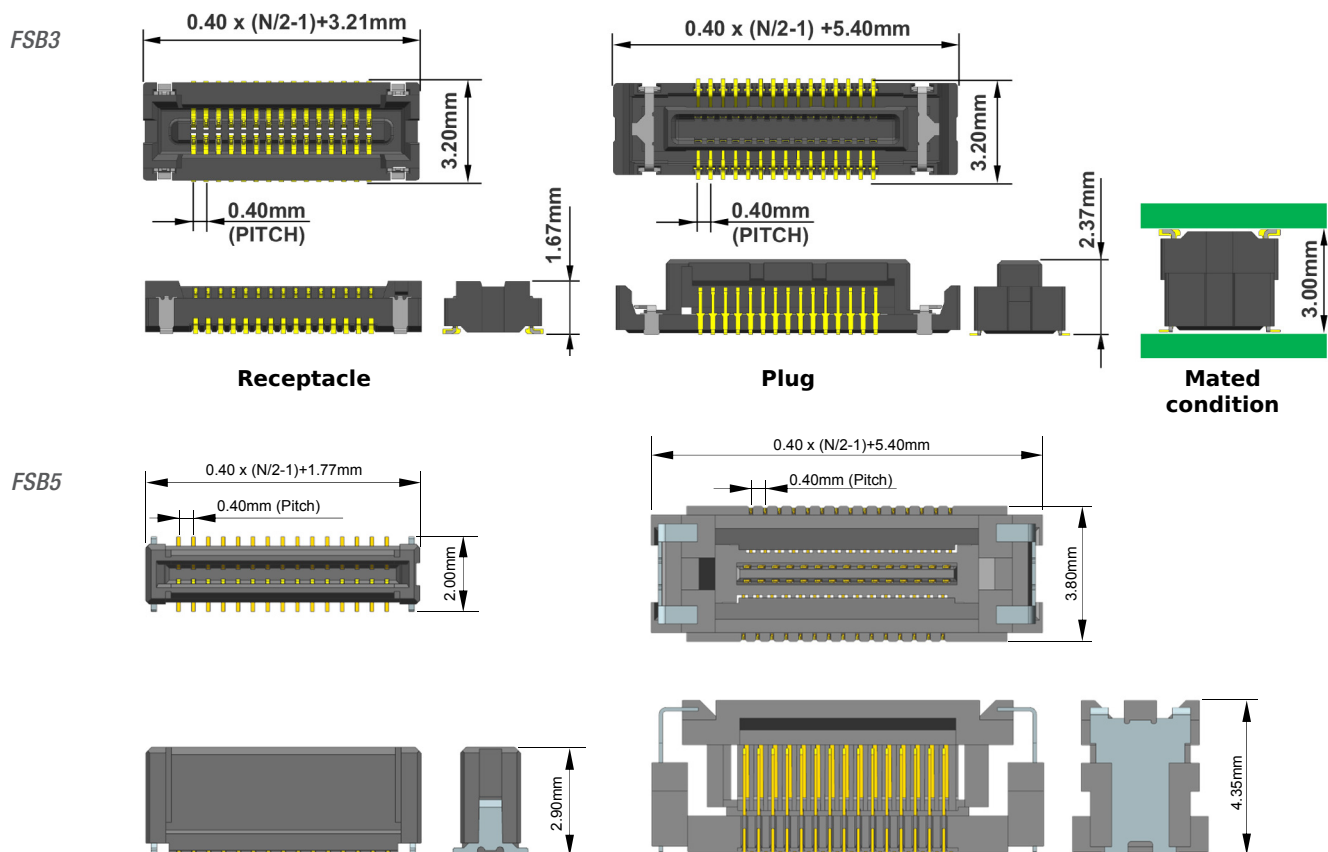
Housing:
 Receptacle: LCP, UL 94V-0, Black
 Plug: LCP, UL 94V-0, Black

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

N: Circuit Size



Ordering Information

Series Name	Part Number		Height (mm)	Pitch (mm)	Circuits
	Receptacle	Plug			
FSB3	204927	204928	3.00	0.40	20, 30, 40, 50, 60
FSB5	203955	203956	5.00		

www.molex.com/link/slimstack.html

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