

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

**molex**

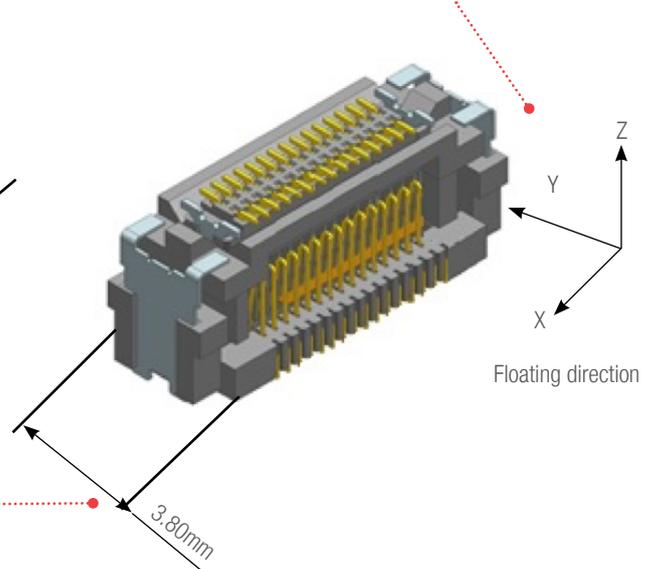
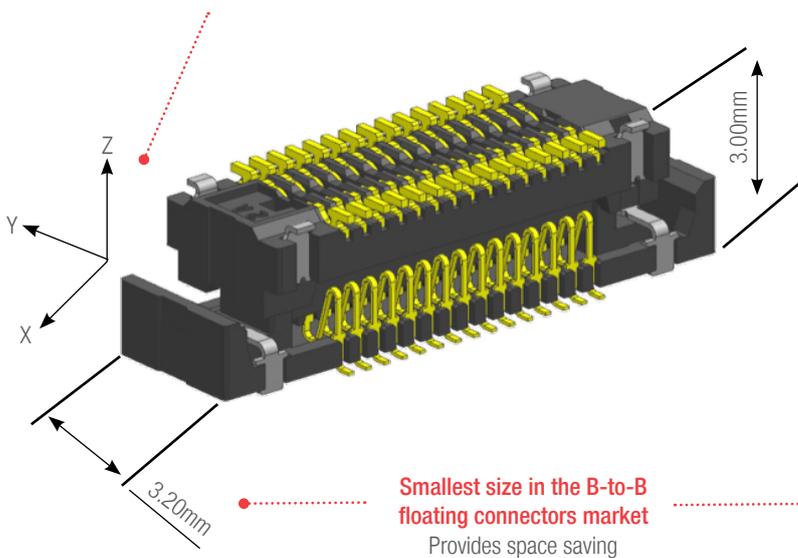
SlimStack Board-to-Board Connectors, 0.40mm Pitch Floating, FSB Series feature 3.00 and 5.00mm stacking height with a large floating range for space-saving and design flexibility, making them ideal for a wide range of applications in the automotive, industrial, medical and consumer industries



## 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

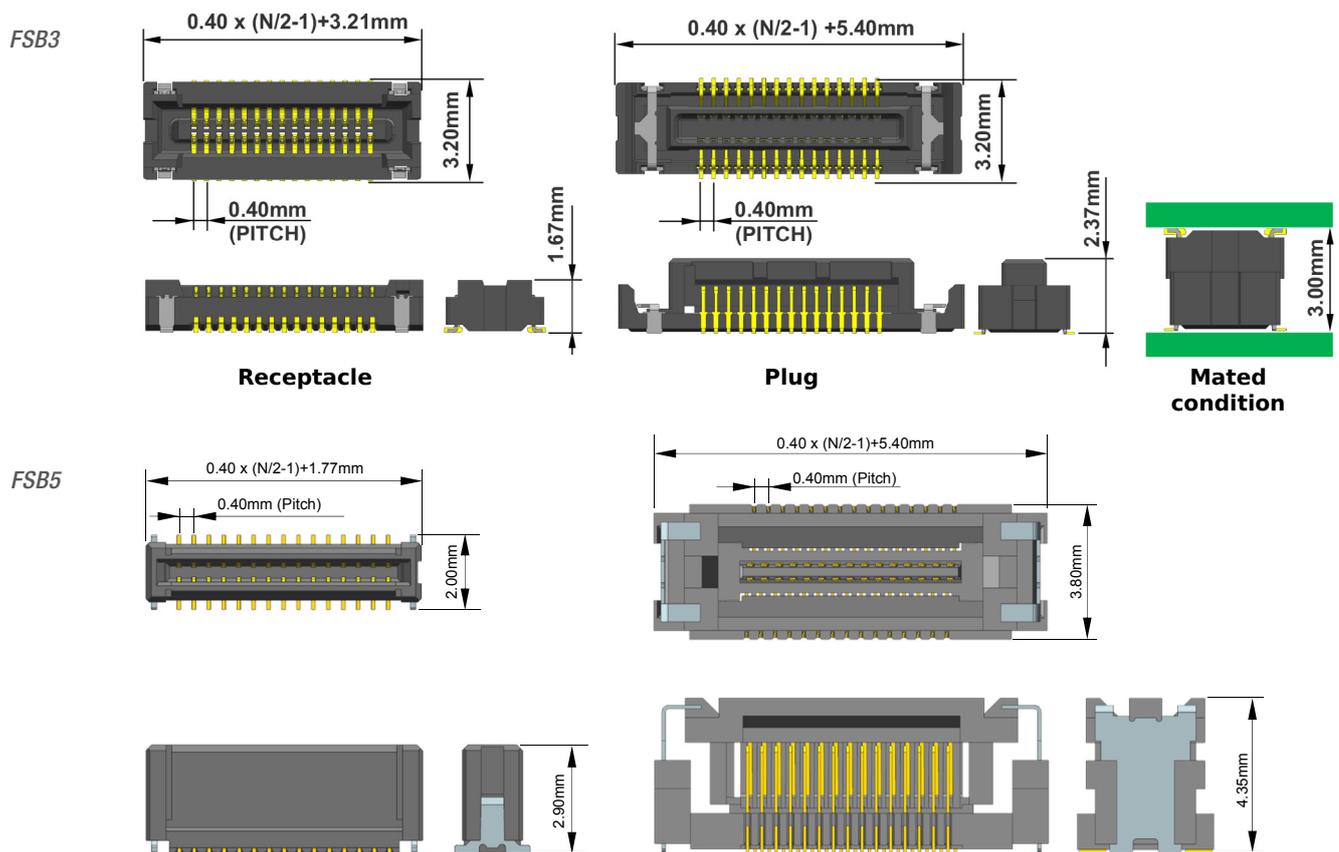
Housing:  
 Receptacle: LCP, UL 94V-0, Black  
 Plug: LCP, UL 94V-0, Black

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	<a href="#">204927</a>	<a href="#">204928</a>	3.00	0.40	20, 30, 40, 50, 60
FSB5	<a href="#">203955</a>	<a href="#">203956</a>	5.00		

[www.molex.com/link/slimstack.html](http://www.molex.com/link/slimstack.html)

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