

# SlimStack Board-to-Board Connectors, 0.40mm Pitch Floating, FSB5 Series



SlimStack Board-to-Board Connectors, 0.40mm Pitch Floating, FSB5 Series feature a large floating range for space-saving and design flexibility, making them ideal for a wide range of applications in the automotive, industrial and consumer industries

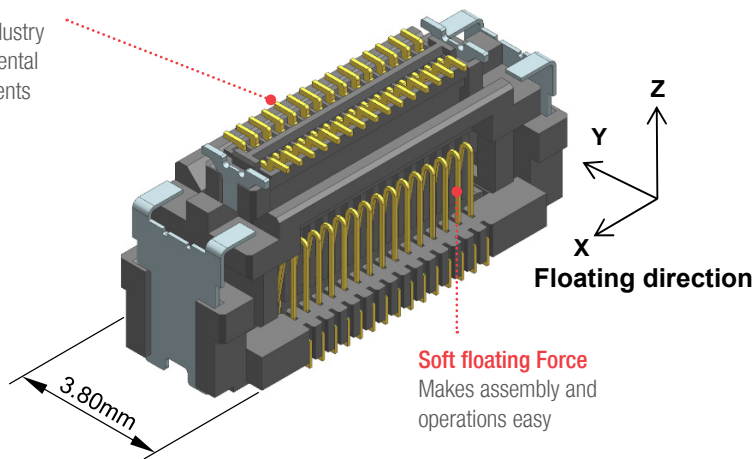
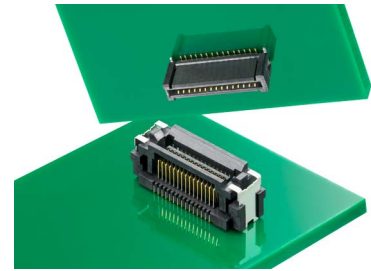
## Features and Advantages

### Low-halogen material

Meets industry environmental requirements

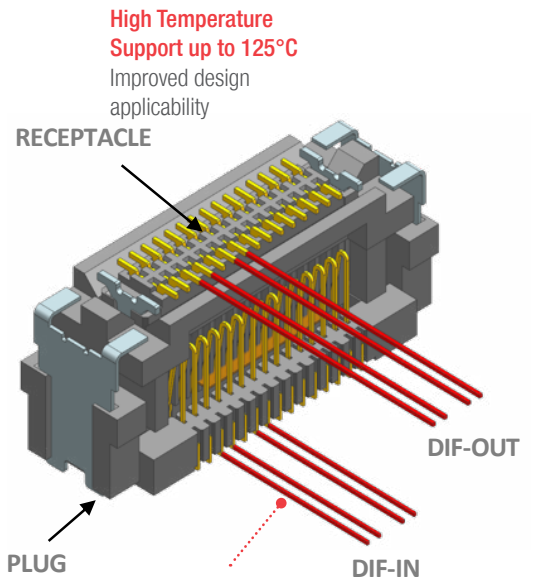
$\pm 0.50\text{mm}$  floating range in X-, Y- and Z- axis directions

Facilitates assembly in the event of misalignment or blind joining



**Smallest size in the B-to-B floating connectors market**

Provides space saving



**High Temperature Support up to 125°C**

Improved design applicability

**High-speed transmission**

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

\*Pin assignment: GSSGSSG

## Applications

### Automotive

- Car cameras
- Car radar
- Car LiDAR
- Car infotainment

### Industrial

- Automation machines
- Transformers

### Consumer

- UAVs (drones)



Car Camera



Car Radar



Automation Machine

# SlimStack Board-to-Board Connectors, 0.40mm Pitch Floating, FSB5 Series



## Specifications

### REFERENCE INFORMATION

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

### ELECTRICAL

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

### MECHANICAL

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

### PHYSICAL

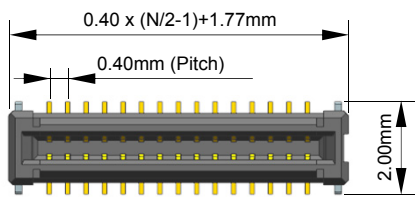
Housing:  
 Receptacle: LCP, UL 94V-0, Black  
 Plug: LCP, UL 94V-0, Black  
 Terminal: Copper Alloy  
 Fitting Nail: Copper Alloy  
 Plating:  
 Terminal Contact Area — Gold (Au)  
 Solder Tail Area — Gold (Au)  
 Underplating — Nickel (Ni)  
 Fitting Nail  
 Solder Tail Area — Tin (Sn)  
 Underplating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

## Dimensions

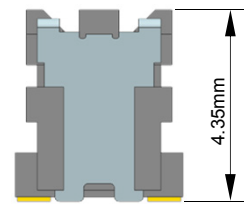
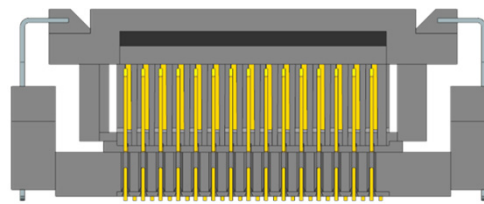
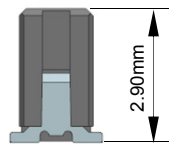
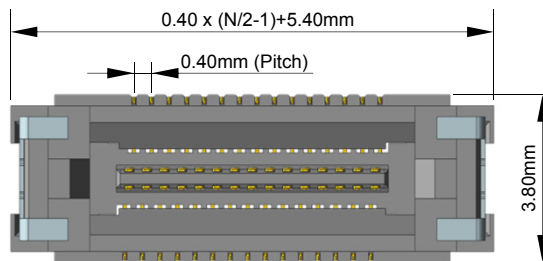
Refer to drawing for detail dimension

N: Circuit Size

### Receptacle



### Plug



## Ordering Information

Order No.		Mated Height (mm)	Mated Width (mm)	Circuits
Receptacle	Plug			
203955-0**1	203956-0**1	5.00	3.80	20, 30, 40, 50, 60

\*\* : Circuit Size

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

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