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

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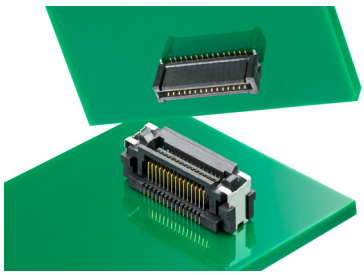
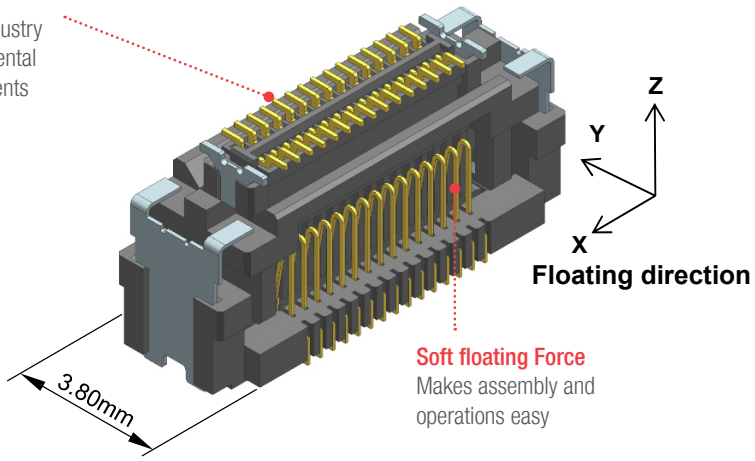
SlimStack Board-to-Board Connectors, 0.40mm Pitch Floating, FSB5 Series feature a large floating range for space-saving and design flexibility, making them ideal for a wide range of applications in the automotive, industrial, medical and consumer industries



Features and Advantages

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

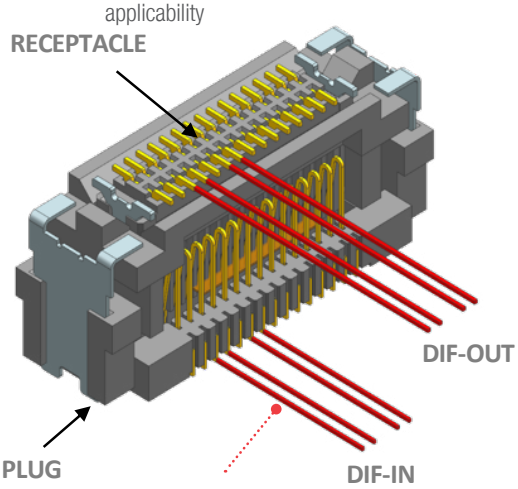
Low-halogen material
Meets industry environmental requirements



Soft floating Force
Makes assembly and operations easy

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

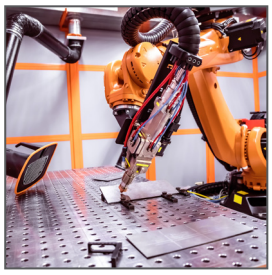
Industrial
- Automation machines
- Transformers

Consumer
- UAVs (drones)

Medical
- Pharmaceutical delivery
- Audiology
- Remote monitoring

Car Camera

Car Radar


Automation Machine

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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

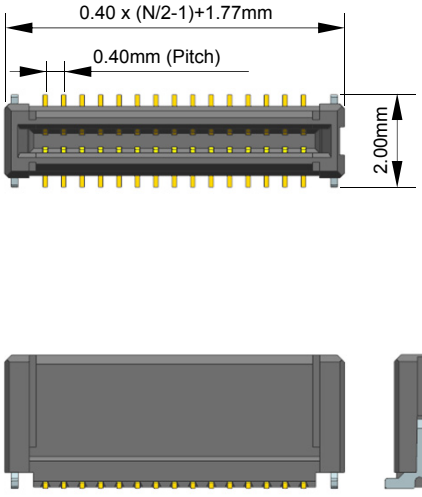
PHYSICAL
Housing:
Receptacle: LCP, UL 94V-0, Black
Plug: LCP, UL 94V-0, Black
Terminal: Copper Alloy
Fitting Nail: Copper Alloy
Plating:
Terminal Contact Area — Gold (Au)
Solder Tail Area — Gold (Au)
Underplating — Nickel (Ni)
Fitting Nail
Solder Tail Area — Tin (Sn)
Underplating — Nickel (Ni)
Operating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

Dimensions

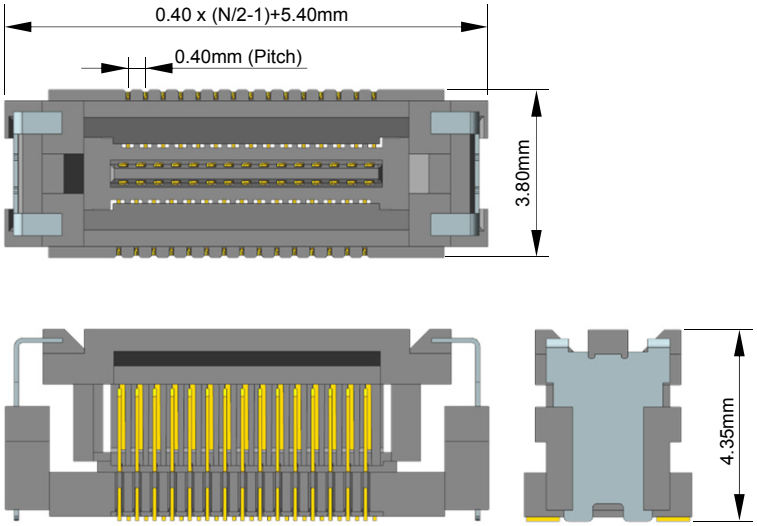
Refer to drawing for detail dimension

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

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