

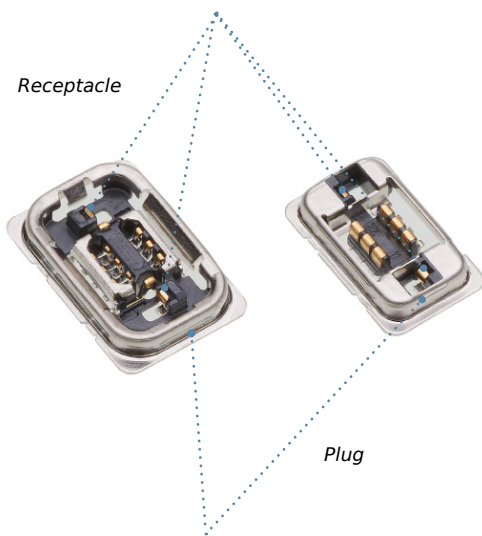
5G mmWave RF Flex-to-Board Connectors, 0.35mm Pitch, 5G25 Series >

Molex's 5G25 RF Connectors support high-frequency signals (25 GHz) while Molex's proprietary contact-shielding and isolation of RF terminals preserve the high level of signal integrity (SI) performance needed for mission-critical 5G applications.

FEATURES AND ADVANTAGES

Unique contact design of RF terminal

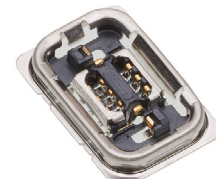
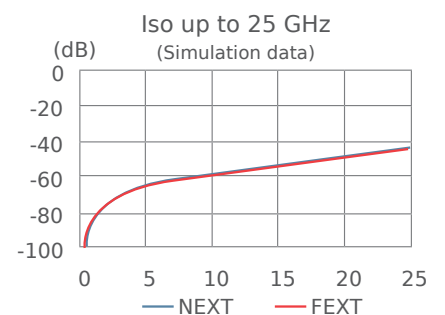
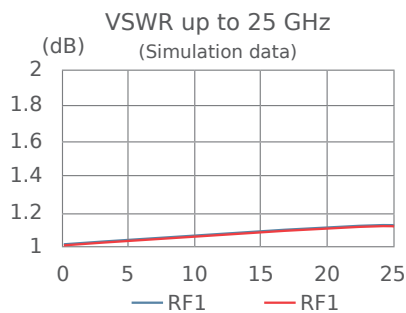
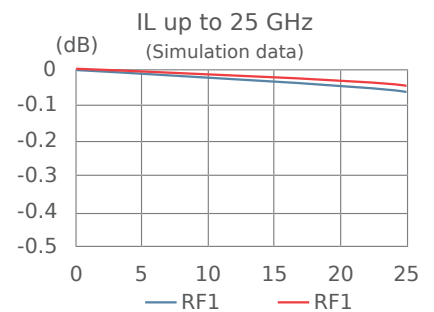
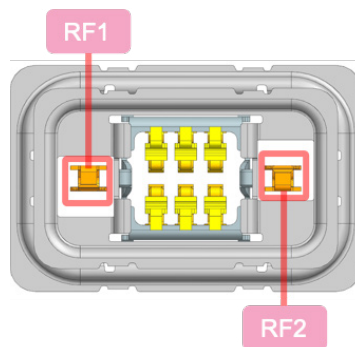
Enables high speed while offering space savings and mechanical robustness



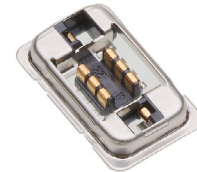
Uniquely designed shield

Offers full EMI shielding and high-frequency capability for superior EMI reduction and SI performance while supporting mating positioning; protects against potential RF contact buckling and shock caused by accidental drop

Superior shield design enables industry-leading SI performance up to 25 GHz



Receptacle

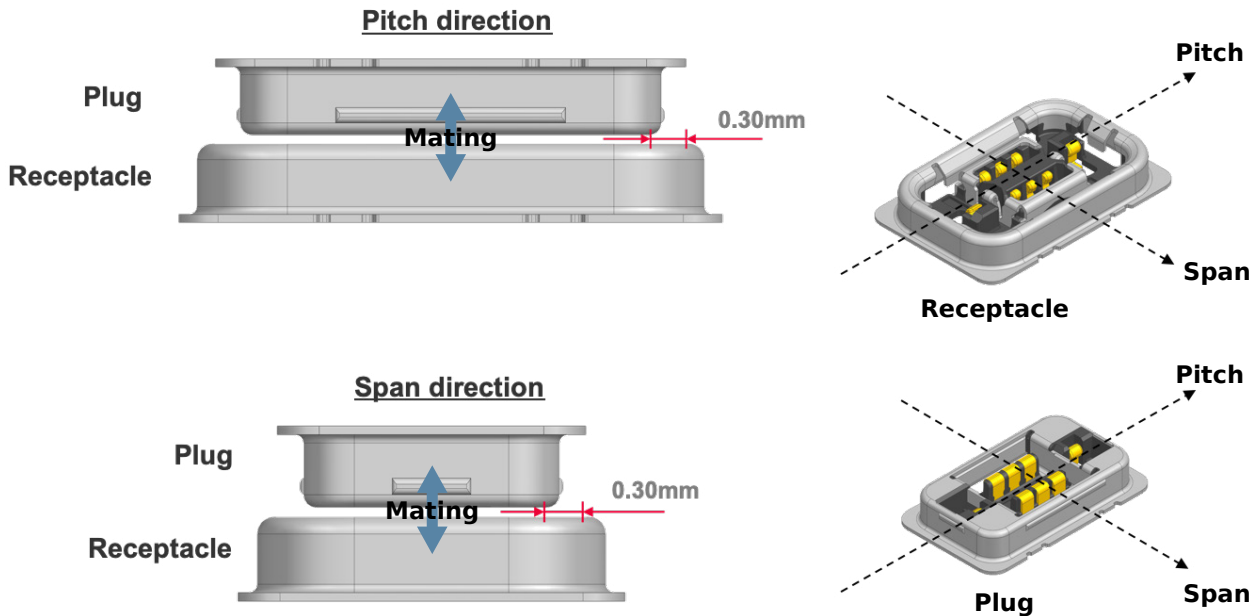


Plug

5G mmWave RF Flex-to-Board Connectors, 0.35mm Pitch, 0.70mm Mated Height, 5G25 Series

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Wide alignment tolerance of 0.30mm (pitch)/0.30mm (span) facilitates proper alignment and mating



MARKETS AND APPLICATIONS

Consumer

- Smartphones
- Tablet PCs
- Wearable devices
- Smart home devices
- AR/VR devices

Industrial

- IoT
- Portable audio and navigation equipment
- 5G and RF devices

Medical Devices

- Patient monitoring systems
- Therapeutic and surgical equipment

Defense

- Drones
- Unmanned vehicles
- Aircraft avionics



Drones



IoT



5G, tablets and mobile devices



AR/VR



Patient Monitors

5G mmWave RF Flex-to-Board Connectors, 0.35mm Pitch, 5G25 Series >

SPECIFICATIONS

Reference Information

Packaging: Embossed tape with cover
Designed in: Millimeters
RoHS: Yes Halogen Free: Yes

Electrical

Voltage (max.): 50V
Current signal terminal (max.): 1.0A/pin
Contact Resistance (max.):
Signal terminal: 30 milliohms
RF terminal: 20 milliohms
Dielectric Withstanding Voltage: 250V AC
Insulation Resistance (min.): 100 Megohms

Mechanical

Pitch: 0.35mm
Mated Height: 0.70mm Width: 2.76mm
Length: 4.16mm
Structure Type: Vertical type
Circuit Size/Signal: 6/RF-2
Durability (max.): 10 cycles

Physical

Housing: LCP black, UL 94V-0
Signal Terminal: Copper Alloy
RF Terminal: Copper Alloy
Shield: Copper Alloy
GND Cover: Copper Alloy
Plating:
Signal terminal/RF terminal ground cover
Contact Area—Gold
Tail Area—Gold
Under—Nickel
Operating Temperature: -40 to +85°C

www.molex.com/link/5gmmwave.html
www.molex.com/link/SlimStack.html