

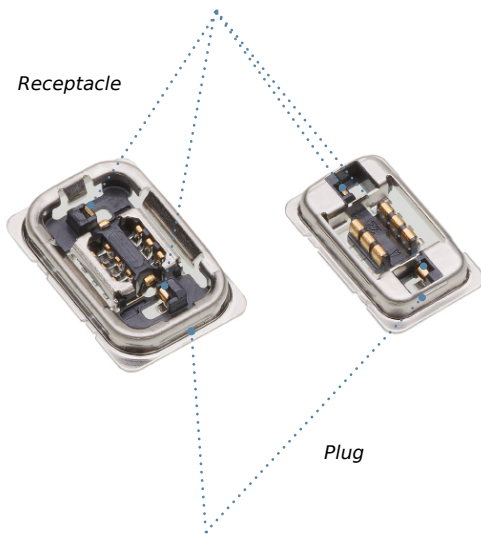
# 5G mmWave RF Flex-to-Board Connectors, 0.35mm Pitch, 5G25 Series >

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

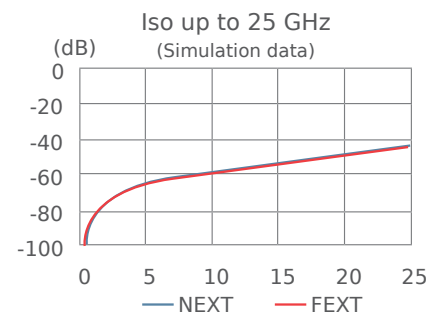
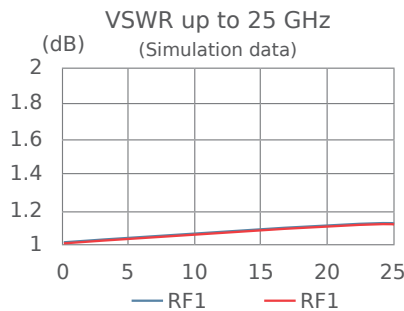
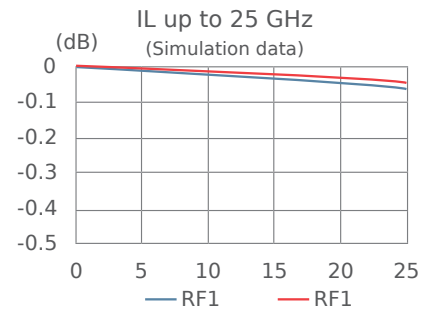
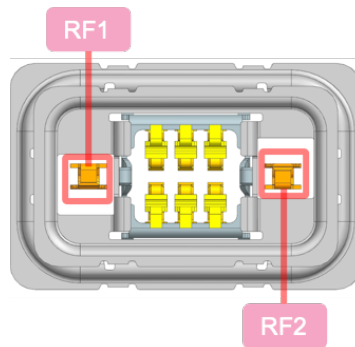
Enables high speed while offering space savings and mechanical robustness



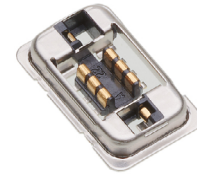
### Uniquely designed shield

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

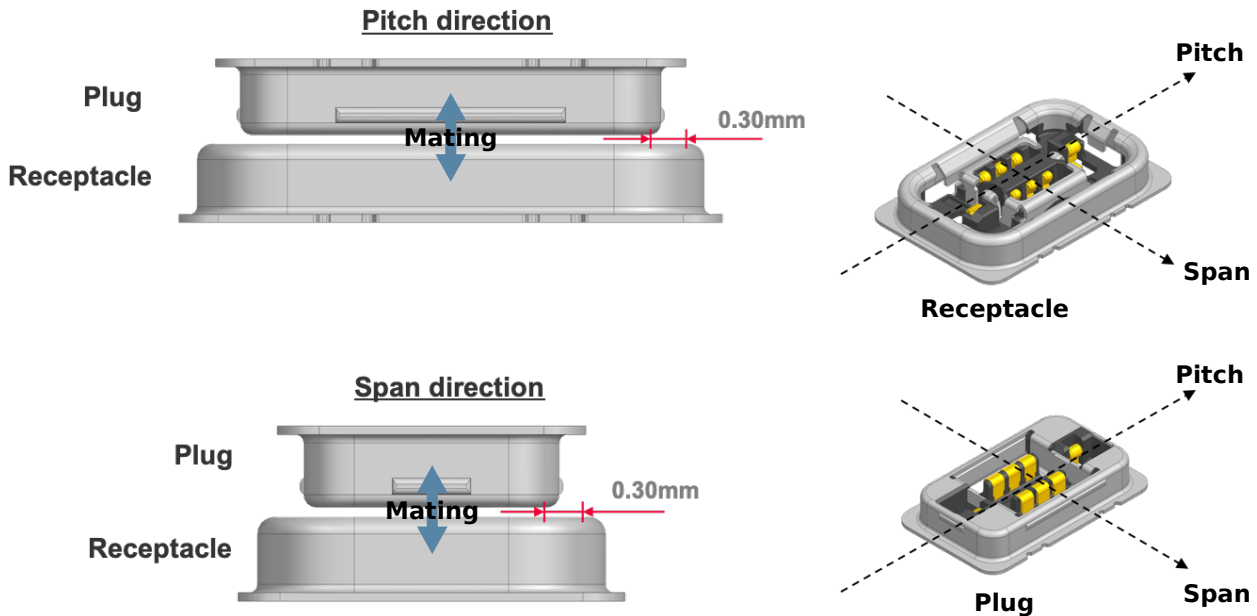


Plug

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

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

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](http://www.molex.com/link/5gmmwave.html)  
[www.molex.com/link/SlimStack.html](http://www.molex.com/link/SlimStack.html)