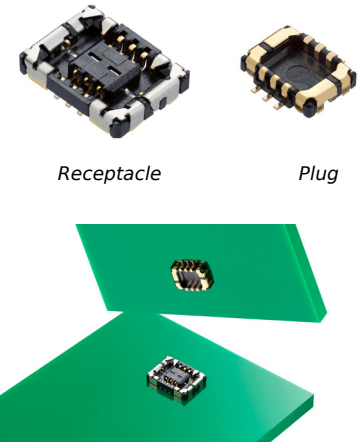


5G mmWave RF Flex-to-Board Connectors >

5G mmWave RF Flex-to-Board Connector, 5G15 Series offers excellent SI performance for high-speed (15 GHz) RF applications, robust mating with vertical and PCB real-estate space-saving features required in highly compact 5G mobile and other communication devices.

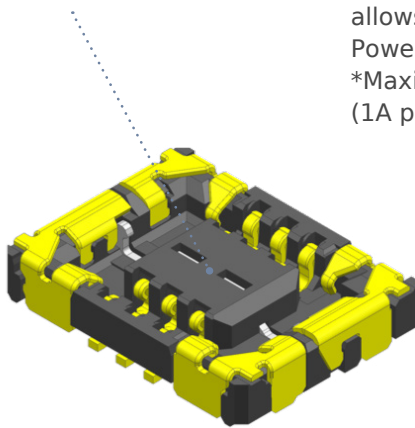


5G mmWave RF Flex-to-Board Connectors, 0.35mm Pitch, 0.60mm Height, 5G15 Series

FEATURES AND ADVANTAGES

Receptacle center shield

Isolates each row contributing to a good signal integrity performance for 5G (Sub6, mmWave) and other high-speed applications

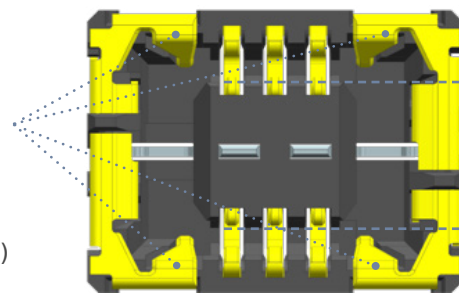


Power(1A max.) or Ground nail

Ground nail

Armored split nail

Protects connector from damage during mating; allows for dual use as Power or Ground
 *Maximum current: 2A (1A per pin x 2pins, max.)



Separation distance between two opposite rows of contacts protects against EMI effects

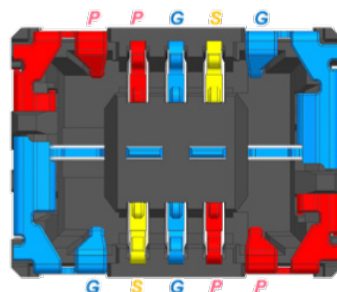
Ground nail

Power(1A max.) or Ground nail

'2RF Signal lines + Power line' or alternative configuration as '4RF Signal lines (without power)'

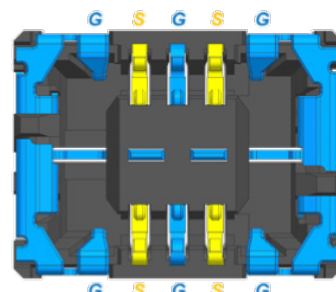
Offers design flexibility in pin assignments

G: Ground
 S: Signal
 P: Power



2 RF signal line + 1A Power line model

G: Ground
 S: Signal

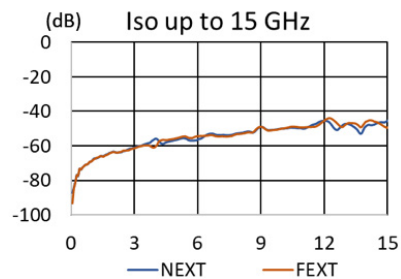
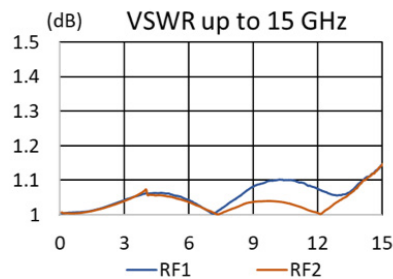
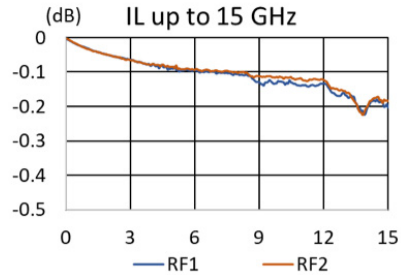
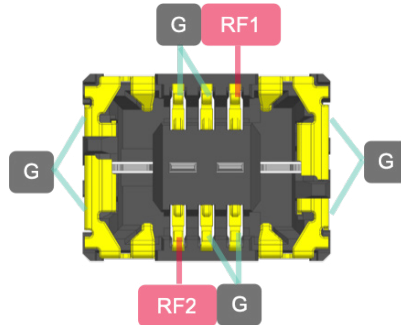


4 RF signal line model

5G mmWave RF Flex-to-Board Connectors >

FEATURES AND ADVANTAGES

Leading Signal Integrity Performance up to 15GHz



MARKETS AND APPLICATIONS

Consumer

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



5G, tablets and mobile devices



IoT



AR/VR



Patient Monitors

5G mmWave RF Flex-to-Board Connectors >

SPECIFICATIONS

Reference Information

Packaging: Embossed Tape with Cover
Designed In: Millimeters
RoHS: Yes
Halogen Free: Yes

Electrical

Voltage (max.): 50V
Current (max.): 0.3A / 1.0A (refer to Product Specifications 2153600000-PS for pin assignment details)
Contact Resistance (max.):
Signal: 30 milliohms
Nail: 20 milliohms
Dielectric Withstanding Voltage : 250V AC (rms)
Insulation Resistance (min.): 100 Megohms

Mechanical

Pitch: 0.35mm
Mated Height: 0.60mm
Mated Width: 2.30mm
Length (Receptacle): 3.04mm
Structure Type: Vertical type
Circuit Size: 6+4 Circuit
Durability (max.): 10 cycles

Physical

Housing: LCP Black, UL 94V-0
Contact: Copper Alloy
Plating: Contact Area - Gold
Solder Tail Area - Gold
Underplating - Nickel
Operating Temperature: -40 to +85°C

ORDERING INFORMATION

Series	Description
215360	5G mmWave 0.35mm-Pitch Flex-to-Board Receptacle, Series 5G15
215361	5G mmWave 0.35mm-Pitch Flex-to-Board Plug, Series 5G15

www.molex.com/link/slimstack.html