

1.85mm Female (Jack) PCB Surface Mount with Round Contact 67GHz VSWR1.3

FMCN45942 1.85mm female PCB RF connector has a 50 Ohms impedance. Our 1.85mm female PCB connector operates at a maximum frequency of 67 GHz. Our high-quality radio frequency co-axial coaxial connector is used for general purpose test and printed circuit board applications. This 1.85mm female RF connector is stocked to be readily available for same business day shipment.

The Fairview Microwave 1.85mm female PCB connector has a VSWR of 1.3:1. This 1.85mm PCB connector has a brass body with gold plating. Our FMCN4542 connector uses a beryllium copper contact. This RF connector can operate at temperatures ranging from -40 to +165 degrees C. Additional RF connector specs and dimensions for this component can be found on its PDF specification datasheet and CAD drawings.

Fairview Microwave RF connector block has a maximum inner conductor and outer conductor resistance of 4 mOhms and 2.5 mOhms respectively. Our 1.85mm female RF connector with PCB termination has a 0.409 dB maximum insertion loss. The radio frequency connector is made from brass along with a contact life of 500 cycles or more. This 1.85mm connector has a beryllium copper inner contact plating. Fairview Microwave's 1.85mm jack connector has a maximum operating voltage of 150 Vrms and a dielectric withstanding voltage of 500 Vrms.

This Fairview Microwave 1.85mm female connector will ship the same business day as purchased. Our 1.85mm female connector is part of the RF, microwave, and millimeter wave components in stock for worldwide shipment. For further information on similar products, our expert technical support and trained sales team can get you the ideal RF connector as per your requirements.

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	DC		67	GHz
VSWR			1.3:1	
Insertion Loss			0.409	dB
Operating Voltage (AC)			150	Vrms
DWV (AC)			500	Vrms
Inner Cond. DC Resistance			4	mOhms
Outer Cond. DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	100			dB

Mechanical Specifications

Size	
Length	0.46 in [11.68 mm]
Width/Dia.	0.25 in [6.35 mm]
Height	0.25 in [6.35 mm]
Weight	0.12 lbs [54.43 g]
Mating Cycles	500 Cycles
Mating Torque	9.74 to 15 in-lbs [1.10 to 1.70 Nm]
Cable Retention Force	4.5 lbs [2.04 kg]



Configuration:

- 1.85mm Female Connector
- 50 Ohms
- Straight Body Geometry
- Solder Attachment

Features:

- Operating Frequency of 67 GHz Max.
- Good VSWR of 1.3:1
- Gold Plated Beryllium Copper Contact

Applications:

- General Purpose Test
- PCB Applications

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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Outer Conductor	Brass	Gold
Body	Brass	Gold

Environmental Specifications

Temperature

Operating Range

-40 to +165 deg C

Humidity

MIL-STD-202, Method 106

Thermal Shock

MIL-STD-202, Method 107, Condition B

Salt Spray

MIL-STD-202, Method 101, Condition B

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

1.85mm Female (Jack) PCB Surface Mount with Round Contact 67GHz VSWR1.3 from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [1.85mm Female \(Jack\) PCB Surface Mount with Round Contact 67GHz VSWR1.3 FMCN45942](#)

URL: <https://www.fairviewmicrowave.com/1.85mm-female-pcb-connector-fmcn45942-p.aspx>

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