

1.85mm Female (Jack) Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap

FMCN45945 1.85mm female PCB RF connector has a 50 Ohms impedance. Our 1.85mm female PCB connector operates at a maximum frequency of 70 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 1.92:1. This 1.85mm PCB connector has a Stainless Steel body. Our FMCN4545 connector uses a beryllium copper contact. This RF connector can operate at temperatures ranging from -50 to +125 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 0.353 dB maximum insertion loss. The radio frequency connector is made from Stainless Steel 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		70	GHz
VSWR			1.92:1	
Insertion Loss			0.353	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	0.44 in [11.18 mm]
Width/Dia.	0.4 in [10.16 mm]
Height	0.4 in [10.16 mm]
Weight	0.015 lbs [6.8 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
- Clamp Attachment

Features:

- Operating Frequency of 70 GHz Max.
- Good VSWR of 1.92:1
- Gold Plated Beryllium Copper Contact

Applications:

- General Purpose Test
- PCB Applications

Fairview Microwave
 301 Leora Ln., Suite 100
 Lewisville, TX 75056
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold
Outer Conductor	Stainless Steel	
Body	Stainless Steel	

Environmental Specifications

Temperature

Operating Range

-50 to +125 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) Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap 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 \(Jack\) Solderless 2 hole PCB Mount 70GHz VSWR1.92, Metal Contact Ring with Gap FMCN45945](#)

URL: <https://www.fairviewmicrowave.com/1.85mm-female-pcb-connector-fmcn45945-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.

