

MCX Female (Jack) PCB Mount Connector, 45 Degree angle with round contact 0.0375 inches diameter, 6GHz VSWR1.2



FMCN46000

Configuration

- MCX Female Connector
- 50 Ohms
- 45 Degree Body Geometry
- PCB

Features

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.2:1
- Gold over Nickel over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

45° Angle MCX Female PCB Mount Connector, part number FMCN46000, from Fairview Microwave is in-stock and shipssame day. This MCX female connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.2:1.

Fairview's 45° Angle MCX female PCB connector FMCN46000 datasheet specifications and outline drawing are shown in this PDF below. Our extensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connections however they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has a connector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and ship them same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
VSWR			1.2:1	
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			5	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	10,000			MOhms
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 3				GHz
Insertion Loss, Max	0.2	0.24				dB

Mechanical Specifications

Size

Length	0.381 in [9.68 mm]
Width	0.236 in [5.99 mm]
Height	0.528 in [13.41 mm]
Weight	0.005 lbs [2.27 g]
Mating Cycles	500 Cycles

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Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel over Copper
Insulation	Teflon	
Body	Brass	Gold over Nickel over Copper

Environmental Specifications

Temperature

Operating Range

-55 to +155 deg C

Humidity

MIL-STD-202, Method 106

Thermal Shock

MIL-STD-202, Method 107, Condition F

Salt Spray

MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

MCX Female (Jack) PCB Mount Connector, 45 Degree angle with round contact 0.0375 inches diameter, 6GHz VSWR1.2 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: [MCX Female \(Jack\) PCB Mount Connector, 45 Degree angle with round contact 0.0375 inches diameter, 6GHz VSWR1.2 FMCN46000](#)

URL: <https://www.fairviewmicrowave.com/mcx-female-connector-fmcn46000-p.aspx>

The information contained within 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 liability arising out of the use of any part or document.

FMCN46000 CAD Drawing

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