

SMA Female (Jack) PCB Mount Connector, 45 Degree angle with round contact 0.05 inches diameter, 27GHz VSWR1.3



FMCN45996

Configuration

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

Features

- Operating Frequency of 27 GHz Max.
- Good VSWR of 1.3:1
- Gold over Nickel over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test

Description

45° Angle SMA Female PCB Mount Connector, part number FMCN45996, from Fairview Microwave is in-stock and ships same day. This SMA female connector operates up to a maximum frequency of 27 GHz and offers good VSWR of 1.3:1.

Fairview's 45° Angle SMA female PCB connector FMCN45996 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		27	GHz
VSWR			1.3:1	
Insertion Loss			0.2	dB
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 27				GHz
VSWR, Max	1.2:1	1.3:1				

Mechanical Specifications

Size

Length	0.454 in [11.53 mm]
Width	0.276 in [7.01 mm]
Height	0.571 in [14.5 mm]

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Weight	0.011 lbs [4.99 g]
Mating Cycles	100 Cycles

Material Specifications

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

Environmental Specifications

Temperature	
Operating Range	-65 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:

SMA Female (Jack) PCB Mount Connector, 45 Degree angle with round contact 0.05 inches diameter, 27GHz 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: [SMA Female \(Jack\) PCB Mount Connector, 45 Degree angle with round contact 0.05 inches diameter, 27GHz VSWR1.3 FMCN45996](#)

URL: <https://www.fairviewmicrowave.com/sma-female-connector-fmcn45996-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.

FMCN45996 CAD Drawing

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