

1.85mm Female (Jack) Connector 30 Degree Angle
Solderless PCB Mount 2 Hole Flange 70GHz VSWR1.5



FMCN45946

Configuration

- 1.85mm Female Connector
- 50 Ohms
- 30 Degree Body Geometry
- 2 Hole Flange

Features

- Operating Frequency of 70 GHz Max.
- Good VSWR of 1.5:1
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- PCB Applications

Description

Angle Undefined 1.85mm Female 2 hole Flange Mount Standard 2 hole Flange Mount Connector, part number FMCN45946, from Fairview Microwave is in-stock and ships same day. This 1.85mm female connector operates up to a maximum frequency of 70 GHz and offers good VSWR of 1.5:1. Fairview's FMCN45946 2 hole flange 1.85mm connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Fairview's Angle Undefined 1.85mm female 2 hole flange connector FMCN45946 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		70	GHz
VSWR			1.5:1	
Insertion Loss			0.418	dB
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			4	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	100			dB
Impedance		50		Ohms

Mechanical Specifications

Size

- Length 0.69 in [17.53 mm]
- Width 0.43 in [10.92 mm]
- Height 0.43 in [10.92 mm]
- Weight 0.012 lbs [5.44 g]
- Mating Cycles 500 Cycles

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Mating Torque	9.74 to 15 in-lbs [[1.10 to 1.70 Nm]]
Cable Retention Force	4.5 lbs [2.04 kg]

Material Specifications

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

Environmental Specifications

Temperature	
Operating Range	-40 to +85 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) Connector 30 Degree Angle Solderless PCB Mount 2 Hole Flange 70GHz VSWR1.5 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.

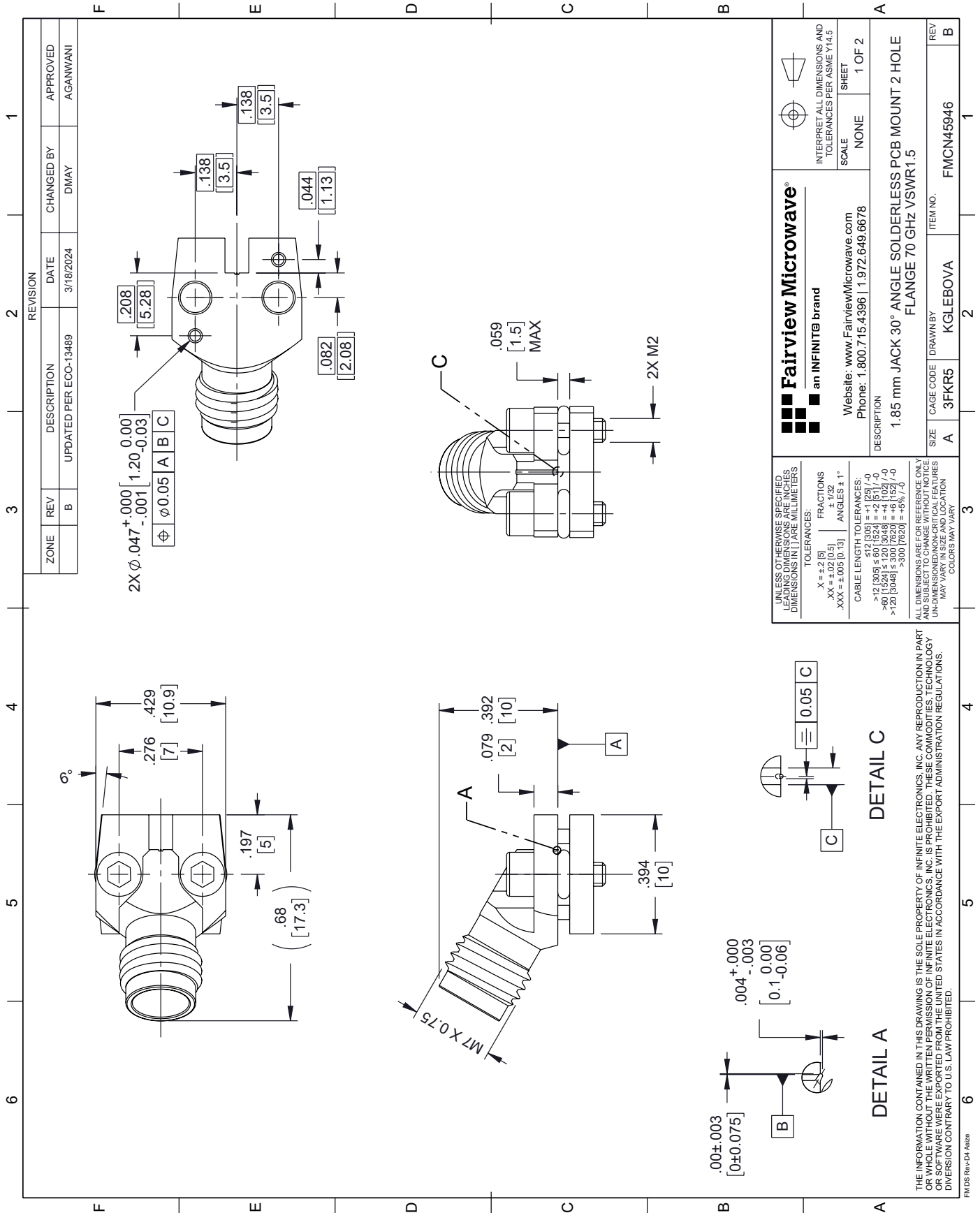
For additional information on this product, please click the following link: [1.85mm Female \(Jack\) Connector 30 Degree Angle Solderless PCB Mount 2 Hole Flange 70GHz VSWR1.5 FMCN45946](#)

URL: <https://www.fairviewmicrowave.com/1.85mm-female-pcb-connector-fmcn45946-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.

FMCN45946 CAD Drawing

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ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
B	B	UPDATED PER ECO-13489	3/18/2024	DMAY	AGANWANI

<p>Fairview Microwave® an INFINIT® brand</p> <p>Website: www.FairviewMicrowave.com Phone: 1.800.715.4396 1.972.649.6678</p>		<p>INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5</p> <p>SCALE: NONE</p> <p>SHEET: 1 OF 2</p>
<p>DESCRIPTION: 1.85 mm JACK 30° ANGLE SOLDERLESS PCB MOUNT 2 HOLE FLANGE 70 GHz VSWR1.5</p>		
REV	REV	REV
B	B	B
ZONE	ZONE	ZONE
B	B	B
DESCRIPTION	DESCRIPTION	DESCRIPTION
1.85 mm JACK 30° ANGLE SOLDERLESS PCB MOUNT 2 HOLE FLANGE 70 GHz VSWR1.5	1.85 mm JACK 30° ANGLE SOLDERLESS PCB MOUNT 2 HOLE FLANGE 70 GHz VSWR1.5	1.85 mm JACK 30° ANGLE SOLDERLESS PCB MOUNT 2 HOLE FLANGE 70 GHz VSWR1.5
ITEM NO.	ITEM NO.	ITEM NO.
FMCN45946	FMCN45946	FMCN45946
SIZE	SIZE	SIZE
A	A	A
CAGE CODE	CAGE CODE	CAGE CODE
3FKR5	3FKR5	3FKR5
DRAWN BY	DRAWN BY	DRAWN BY
KGLEBOVA	KGLEBOVA	KGLEBOVA

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN PARENTHESISES ARE IN MILLIMETERS

TOLERANCES:
 .X = ±.2 [5] FRACTIONS ±.132
 .XX = ±.02 [0.5] ANGLES ± 1°
 .XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
 <math>12 [305] \le L < 60 [1524]</math> = +1 [25] / -0
 <math>60 [1524] \le L < 120 [3048]</math> = +4 [102] / -0
 <math>120 [3048] \le L < 300 [7620]</math> = +5 [127] / -0
 $300 [7620] \le L$ = +5 [127] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS OF CRITICAL FEATURES UNLESS OTHERWISE SPECIFIED MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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