2.92mm Female (Jack) Connector
30 Degree Angle Solderless PCB Mount 2 Hole
40GHz VSWR 1.25, Through Hole

FMCN45920

Configuration
- 2.92mm Female Connector
- 50 Ohms
- 30 Degree Body Geometry
- 2 Hole Flange

Features
- Operating Frequency of 40 GHz Max.
- Excellent VSWR of 1.25:1
- Gold Plated Beryllium Copper Contact

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

Description

Angle Undefined 2.92mm Female 2 hole Flange Mount Standard 2 hole Flange Mount Connector, part number FMCN45920, from Fairview Microwave is in-stock and ships same day. This 2.92mm female connector operates up to a maximum frequency of 40 GHz and offers excellent VSWR of 1.25:1. Fairview's FMCN45920 2 hole flange 2.92mm 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 2.92mm female 2 hole flange connector FMCN45920 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		40	GHz
VSWR			1.25:1	
Insertion Loss			0.252	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	100			dB
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.71 in [18.03 mm]
Width	0.43 in [10.92 mm]
Height	0.43 in [10.92 mm]
Weight	0.12 lbs [54.43 g]
Mating Cycles	500 Cycles

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Mating Torque	11.47 to 15 in-lbs [[1.30 to 1.70 Nm]]
Cable Retention Force	4.9 lbs [2.22 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 +165 deg C
Humidity	MIL-STD-202, Method 206
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:

2.92mm Female (Jack) Connector 30 Degree Angle Solderless PCB Mount 2 Hole 40GHz VSWR 1.25, Through Hole 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: 2.92mm Female (Jack) Connector 30 Degree Angle Solderless PCB Mount 2 Hole 40GHz VSWR 1.25, Through Hole FMCN45920

URL: https://www.fairviewmicrowave.com/2.92mm-female-pcb-connector-fmcn45920-p.aspx

FMCN45920 CAD Drawing

2.92mm Female (Jack) Connector 30 Degree Angle Solderless PCB
Mount 2 Hole 40GHz VSWR 1.25, Through Hole

Fairview Microwave®
an INFINITE brand

Website: www.FairviewMicrowave.com
Phone: 1.800.715.4396 | 1.972.649.6678

DESCRIPTION	2.92 mm JACK 30° ANGLE SOLDERLESS PCB MOUNT 2 HOLE FLANGE 40 GHz VSWR 1.25
CAGE CODE	3FKR5
DRAWN BY	KGLEBOVA
ITEM NO.	FMCN45920
SIZE	A
REV	B
SHEET	1 OF 2
SCALE	NONE

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

REVISION

ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	B	UPDATED PER ECO-13489	03/18/2024	DMAY	AGANWANI

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
X = ±.2 [5]
XX = ±.02 [0.5]
XXX = ±.005 [0.13]

FRACTIONS ± 1/32
ANGLES ± 1°

CABLE LENGTH TOLERANCES:
≤12 [305] = +1 [25] / -0
>12 [305] ≤ 60 [1524] = +2 [51] / -0
>60 [1524] ≤ 120 [3048] = +4 [102] / -0
>120 [3048] ≤ 300 [7620] = +6 [152] / -0
>300 [7620] = +5% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE. UN-DIMENSIONED/NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION COLORS MAY VARY

.138 [3.5]
.138 [3.5]
.047 [1.2]
.205 [5.2]
.079 [2]

2X ⌀ .047 +.000 -.001 [1.20 -0.03 0.00]
⌖ ⌀0.05 B E F

.059 [1.5] MAX
2 X M2

DETAIL C

0.05 E

6°
.276 [7]
.197 [5]
.51 [13]
.433 [11]

ALLEN SCREW 1.5

.403 [10.2]
.079 [2]
.394 [10]
(.70) [17.9]

1/4-36 UNS-2A

.005 +.000 -.003 [0.12 0.00 -0.08]
.006 +.000 -.005 [0.15 0.00 -0.13]

DETAIL A

FM DS Rev-D4 Alize

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