

Mini SMP Jack (Female) Non-magnetic PCB Connector 0.068 Inch End Launch Solder Attachment 0.03 Inches Diameter



FMCN5499

Configuration

- Mini SMP Jack Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: 0.068 Inch End Launch
- Non-magnetic Design

Features

- Operating Frequency of 4 GHz Max.
- Excellent VSWR of 1.1:1
- Blind Mate Connector
- Gold over Nickel Alloy over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Space Saving for PCB Applications

Description

Mini SMP Jack Connector Solder Attachment for 0.068 Inch End Launch, part number FMCN5499, from Fairview Microwave is in-stock and ships same day. This Mini SMP jack connector operates up to a maximum frequency of 4 GHz and offers excellent VSWR of 1.1:1. This blind mate connector is ideal for applications without direct visual or tactile access to the connection point, for example, when two circuit boards need to be mated.

Fairview's Mini SMP jack connector FMCN5499 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		4	GHz
VSWR			1.1:1	
Insertion Loss			0.2	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			1,000	Vrms
Inner Conductor DC Resistance			5	mOhms
Outer Conductor DC Resistance			2.5	mOhms
Insulation Resistance	10,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

- Length 0.559 in [14.2 mm]
- Width 0.374 in [9.5 mm]
- Height 0.311 in [7.9 mm]
- Weight 0.004 lbs [1.81 g]
- Mating Cycles 500 Cycles

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Engagement Force	1.8lbs [816.47g]
Disengagement Force	1.8lbs [816.47g]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel Alloy over Copper
Insulation	PTFE	
Body	Beryllium Copper	Gold over Nickel Alloy over Copper

Environmental Specifications

Temperature	
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:

Mini SMP Jack (Female) Non-magnetic PCB Connector 0.068 Inch End Launch Solder Attachment 0.03 Inches Diameter 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.

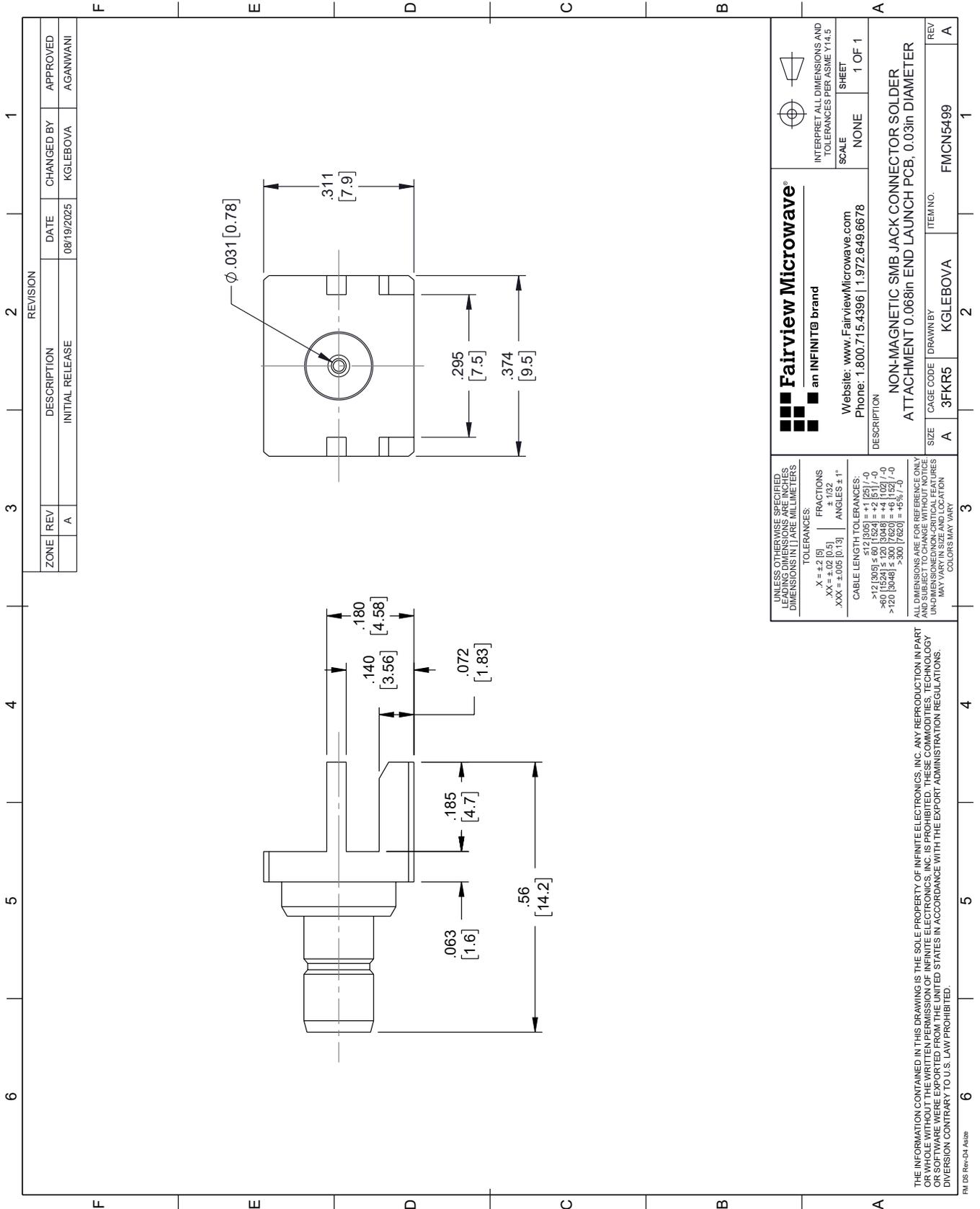
For additional information on this product, please click the following link: [Mini SMP Jack \(Female\) Non-magnetic PCB Connector 0.068 Inch End Launch Solder Attachment 0.03 Inches Diameter FMCN5499](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/mini-smp-jack-0.068-end-launch-pcb-connector-fmcn5499.html>

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.

FMCN5499 CAD Drawing

Mini SMP Jack (Female) Non-magnetic PCB Connector 0.068 Inch
End Launch Solder Attachment 0.03 Inches Diameter



REVISION		DATE	CHANGED BY	APPROVED	
ZONE	REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE	08/19/2025	KGLEBOVA	AGANWANI

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SCALE: NONE
SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: NON-MAGNETIC SMB JACK CONNECTOR SOLDER ATTACHMENT 0.068in END LAUNCH PCB, 0.03in DIAMETER

ITEM NO. FMCN5499

SIZE: A
CAGE CODE: 3FKR5
DRAWN BY: KGLEBOVA

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND DIMENSIONS IN [] ARE MILLIMETERS.

TOLERANCES:
X = ±.2 [5] FRACTIONS ± 1/32
.XX = ±.02 [0.5] ANGLES ± 1°
.XXX = ±.005 [0.13]

CABLE LENGTH TOLERANCES:
≤ 12 [305] ≤ 60 [1524] = ±.1 [25] / -0
> 60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
> 120 [3048] ≤ 300 [7620] = ±.6 [15] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. UNDIMENSIONED NON-CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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PM DS Rev-D4 Alt2