

Mini SMP Male (Plug) Full Detent PCB Connector
Edge Mount Attachment 0.02 Inches Diameter



FMCN5493

Configuration

- Full Detent Mini SMP Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: Edge Mount

Features

- Operating Frequency of 40 GHz Max.
- Good VSWR of 1.45:1
- 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 Male Full Detent Connector for Edge Mount, part number FMCN5493, from Fairview Microwave is in-stock and ships same day. This Mini SMP male connector operates up to a maximum frequency of 40 GHz and offers good VSWR of 1.45:1. 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 male connector FMCN5493 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			1.45:1	
Insertion Loss			0.632	dB
Dielectric Withstanding Voltage (AC)			325	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

Mechanical Specifications

Size

Length	0.268 in [6.81 mm]
Width	0.157 in [3.99 mm]
Height	0.118 in [3 mm]
Weight	0.0009 lbs [0.41 g]
Mating Cycles	100 Cycles
Engagement Force	3.5lbs [1.59kg]
Disengagement Force	5lbs [2.27kg]

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Material Specifications

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

Mini SMP Male (Plug) Full Detent PCB Connector Edge Mount Attachment 0.02 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.

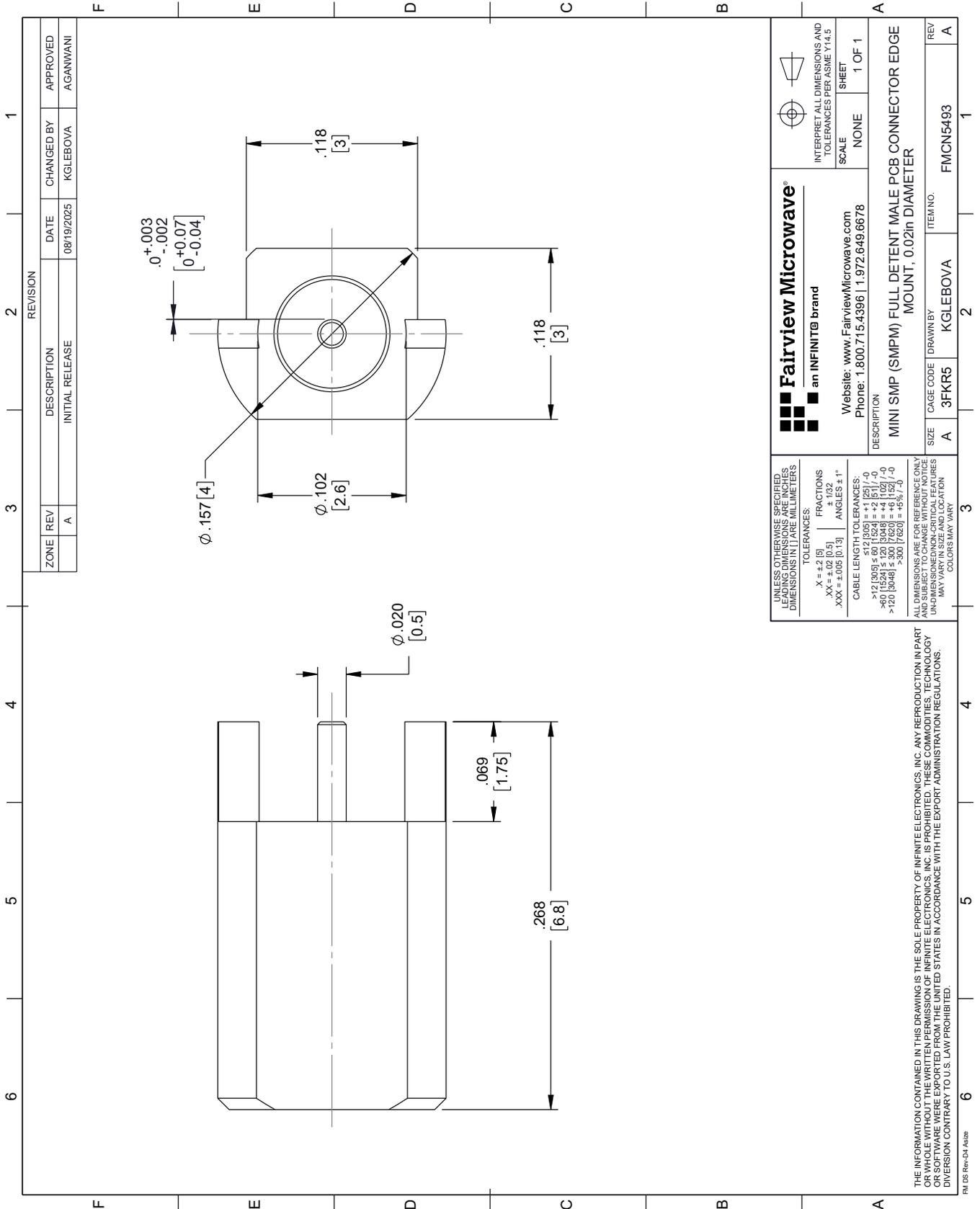
For additional information on this product, please click the following link: [Mini SMP Male \(Plug\) Full Detent PCB Connector Edge Mount Attachment 0.02 Inches Diameter FMCN5493](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/mini-smp-male-full-detent-edge-mount-pcb-connector-fmcn5493.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.

FMCN5493 CAD Drawing

Mini SMP Male (Plug) Full Detent PCB Connector Edge Mount Attachment 0.02 Inches Diameter



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

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UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES AND TRAILING DIMENSIONS ARE IN 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 [2.5] / -0
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = ±.8 [20] / -0

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

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INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

SCALE: NONE
SHEET: 1 OF 1

DESCRIPTION: MINI SMP (SMPM) FULL DETENT MALE PCB CONNECTOR EDGE MOUNT, 0.02in DIAMETER

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	KGLEBOVA	FMCN5493	A

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