

SMP Male Engineering Grade Full Detent PCB Connector Thru Hole Solder Attachment .140 inch Pin Length



FMCN5532

Configuration

- Full Detent SMP Male Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: Thru Hole
- Engineering Grade Design

Features

- Operating Frequency of 40 GHz Max.
- Good VSWR of 1.35:1
- Blind Mate Connector
- Gold over Nickel-Phosphorus Alloy over Copper Plated Beryllium Copper Contact

Applications

- General Purpose Test
- PCB Applications

Description

SMP Male Full Detent Connector Solder Attachment for Thru hole Cable,, part number FMCN5532, from Fairview Microwave is in-stock and ships same day. This SMP male connector operates up to a maximum frequency of 40 GHz and offers good VSWR of 1.35:1. 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 SMP male connector FMCN5532 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.

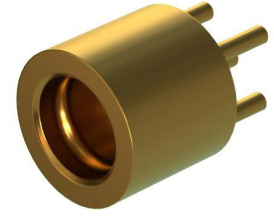
Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		40	GHz
VSWR			1.35:1	
Insertion Loss			0.379	dB
Operating Voltage (AC)			335	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Inner Conductor DC Resistance			6	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	65			dB
Impedance		50		Ohms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 12	12 to 18	18 to 40			GHz
VSWR, Max	1.15:1	1.2:1	1.35:1			

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Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Insertion Loss, Max	0.207	0.254	0.379			dB

Electrical Specification Notes:
Insertion loss = 0.06*SQRT(FGHz) dB

Mechanical Specifications

Size	
Length	0.295 in [7.49 mm]
Width	0.216 in [5.49 mm]
Height	0.216 in [5.49 mm]
Weight	0.05 lbs [22.68 g]
Mating Cycles	100 Cycles
Engagement Force	15lbs [6.8kg]
Disengagement Force	5lbs [2.27kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel-Phosphorus Alloy over Copper
Insulation	PEI	
Body	Stainless Steel	Gold over Nickel
Crimp Sleeve	Brass	Gold over Nickel-Phosphorus 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:

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SMP Male Engineering Grade Full Detent PCB Connector Thru Hole Solder Attachment .140 inch Pin Length 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: [SMP Male Engineering Grade Full Detent PCB Connector Thru Hole Solder Attachment .140 inch Pin Length FMCN5532](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/smp-male-full-detent-thru-hole-pcb-connector-fmcn5532.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.

FMCN5532 CAD Drawing

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