

SMP Male Engineering Grade Smooth Bore PCB Connector Thru Hole Solder Attachment Pre-Tinned Contacts



FMCN5531

Configuration

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

Features

- Operating Frequency of 26.5 GHz Max.
- Good VSWR of 1.35:1
- Blind Mate Connector
- Gold over Nickel-Phosphorus Alloy over Copper Plated Kovar Contact

Applications

- General Purpose Test
- PCB Applications

Description

SMP Male Smooth Bore Connector Solder Attachment for Thru hole Cable, part number FMCN5531, from Fairview Microwave is in-stock and ships same day. This SMP male connector operates up to a maximum frequency of 26.5 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 FMCN5531 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		26.5	GHz
VSWR			1.35:1	
Insertion Loss			0.309	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

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

Mechanical Specifications

Size

Length 0.201 in [5.11 mm]

SMP Male Engineering Grade Smooth Bore PCB Connector
Thru Hole Solder Attachment Pre-Tinned Contacts



FMCN5531

Width	0.19 in [4.83 mm]
Height	0.19 in [4.83 mm]
Weight	0.05 lbs [22.68 g]
Mating Cycles	1,000 Cycles
Engagement Force	2lbs [907.18g]
Disengagement Force	0.5lbs [226.8g]

Material Specifications

Description	Material	Plating
Contact	Kovar	Gold over Nickel-Phosphorus Alloy over Copper
Insulation	Glass	
Body	Kovar	Gold over Nickel-Phosphorus Alloy over Copper

Environmental Specifications

Temperature	
Operating Range	-55 to +125 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:

SMP Male Engineering Grade Smooth Bore PCB Connector Thru Hole Solder Attachment Pre-Tinned Contacts 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 Smooth Bore PCB Connector Thru Hole Solder Attachment Pre-Tinned Contacts FMCN5531](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/smp-male-smooth-bore-thru-hole-pcb-connector-fmcn5531.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 impliment 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.

