

RF PCB Connector, SMP Male Limited Detent Connector Solder Attachment Surface Mount PCB

SMP male limited detent connector with solder attachment for surface mount PCB, part number FMCN44224, from Fairview Microwave is in-stock and ships same day. This SMP male connector operates up to a maximum frequency of 26.5 GHz. 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 FMCN44224 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	Min	Typ	Max	Units
Frequency Range	DC		26.5	GHz
Operating Voltage (AC)			335	Vrms
Test Voltage (AC)			500	Vrms
Inner Cond. DC Resistance			6	mOhms
Outer Cond. DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Performance by Frequency

Description	F1	F2	F3	F4	F5	Units
Freq. Range	DC to 6	6 to 12				GHz
VSWR, Max	1.11:1	1.23:1				

Electrical Specification Notes:
Insertion loss = $0.05 \times \sqrt{f(\text{GHz})}$ dB max.

Mechanical Specifications

Size	
Length	0.236 in [5.99 mm]
Width/Dia.	0.197 in [5.00 mm]
Height	0.161 in [4.09 mm]
Weight	0.003 lbs [1.36 g]
Mating Cycles	500 Cycles

Material Specifications

Description	Material	Plating
Contact	Brass	Gold
Insulation	LCP	
Body	Brass	Gold



Configuration:

- Limited Detent SMP Male Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Surface Mount Interface Type
- Solder Attachment

Features:

- Operating Frequency of 26.5 GHz Max.
- Blind Mate Connector
- Gold Plated Brass Contact

Applications:

- General Purpose Test
- PCB Applications

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Environmental Specifications

Temperature

Operating Range	-65 to +155 deg C
Humidity	MIL-STD-202, Method 106
Shock	MIL-STD-202, Method 213, Condition A
Vibration	MIL-STD-202, Method 204, Condition B
Thermal Shock	MIL-STD-202, Method 107, Condition B

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

RF PCB Connector, SMP Male Limited Detent Connector Solder Attachment Surface Mount PCB 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: [RF PCB Connector, SMP Male Limited Detent Connector Solder Attachment Surface Mount PCB FMCN44224](#)

URL: <https://www.fairviewmicrowave.com/smp-male-standard-surface-mount-pcb-connector-fmcn44224-p.aspx>

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