

## RA SMB Plug Non-Magnetic Connector Solder Attachment for PCB

RA SMB Plug PCB Mount Non-Magnetic PCB Mount Connector Solder Attachment, part number FMCN45878, from Fairview Microwave is in-stock and ships same day. This SMB plug connector operates up to a maximum frequency of 4 GHz and offers excellent VSWR of 1.2:1. Its right angle body geometry facilitates connections in tight spaces. Fairview's Non Magnetic connectors are manufactured with materials that are especially adapted to non magnetism. Our non-magnetic connectors have a susceptibility of around  $10^{-5}$ , as opposed to  $10^{-2}$  for standard connectors made of brass/nickel materials. As a result, our non-magnetic connectors are transparent to the magnetic field, which means no field distortion and a higher Signal-to-Noise Ratio (SNR).

Fairview's RA SMB plug pcb connector FMCN45878 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

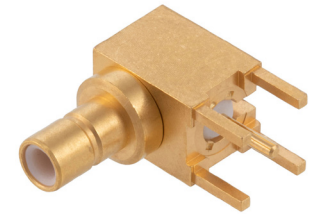
Description	Min	Typ	Max	Units
Frequency Range	DC		4	GHz
VSWR			1.2:1	
Insertion Loss			0.25	dB
Operating Voltage (AC)			500	Vrms
DWV (AC)			1,000	Vrms
Insulation Resistance	1,000			MOhms
RF Leakage	57			dB

### Mechanical Specifications

<b>Size</b>	
Length	27 in [685.8 mm]
Width/Dia.	6.45 in [163.83 mm]
Height	6.45 in [163.83 mm]
Weight	0.02227 lbs [10.1 g]
Mating Cycles	500 Cycles

### Material Specifications

Description	Material	Plating
Contact	Bronze	Gold over Copper
Body	Bronze	Gold over Copper



### Configuration:

- SMB Plug Connector
- 50 Ohms
- Right Angle Body Geometry
- Solder Attachment
- PCB
- Non-Magnetic Design

### Features:

- Operating Frequency of 4 GHz Max.
- Excellent VSWR of 1.2:1
- Gold over Copper Plated Bronze Contact
- Magnetic Susceptibility  $10^{-5}$

### Applications:

- General Purpose Test
- Custom Cable Assemblies
- Medical
- Military and Aerospace
- Quantum Computing

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## Environmental Specifications

### Temperature

Operating Range -65 to +165 deg C

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

## Plotted and Other Data

Notes:

RA SMB Plug Non-Magnetic Connector Solder Attachment for 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: [RA SMB Plug Non-Magnetic Connector Solder Attachment for PCB FMCN45878](#)

URL: <https://www.fairviewmicrowave.com/smb-plug-connector-fmcn45878-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.

