

## Non-Magnetic SMA Female Solder Attachment Thru Hole PCB, .201 inch x 0.059 inch Hole Spacing

### FMCN45954



#### Configuration

- SMA Female Connector
- MIL-STD-348A
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: RG174, RG174NM
- Non-Magnetic Design

#### Features

- Operating Frequency of 18 GHz Max.
- Excellent VSWR of 1.21:1
- Gold Plated Beryllium Copper Contact
- 50  $\mu$ m minimum contact plating

#### Applications

- General Purpose Test
- PCB Applications
- Medical
- Quantum Computing
- Military and Aerospace

#### Description

SMA Female Non-Magnetic Connector Solder Attachment for RG174 and RG174NM Cable, part number FMCN45954, from Fairview Microwave is in-stock and ships same day. This SMA female connector operates up to a maximum frequency of 18 GHz and offers excellent VSWR of 1.21:1. Fairview Microwave'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 SMA female connector FMCN45954 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		18	GHz
VSWR			1.21:1	
Operating Voltage (AC)			335	Vrms
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	0.512 in [13 mm]
Width	0.25 in [6.35 mm]
Height	0.25 in [6.35 mm]
Weight	0.015 lbs [6.8 g]

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### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 µin minimum
Insulation	Teflon	
Outer Conductor	Beryllium Copper	Gold 3 µin minimum
Body	Beryllium Copper	Gold 3 µin minimum

### Environmental Specifications

Temperature Operating Range	-65 to +165 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

Non-Magnetic SMA Female Solder Attachment Thru Hole PCB, .201 inch x 0.059 inch Hole Spacing 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: [Non-Magnetic SMA Female Solder Attachment Thru Hole PCB, .201 inch x 0.059 inch Hole Spacing FMCN45954](#)

URL: <https://www.fairviewmicrowave.com/sma-female-rg316-rg174-lmr-100-pcb-connector-fmcn45954-p.aspx>

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.

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