

## Non-Magnetic SMA Male Right Angle Connector Crimp/Solder Attachment for RG174U



### FMCN45952

#### Configuration

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

#### Features

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.24:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

#### Applications

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

#### Description

RA SMA Male Non-Magnetic Connector Crimp/Solder Attachment for RG174 and RG174NM Cable, part number FMCN45952, from Fairview Microwave is in-stock and ships same day. This SMA male connector operates up to a maximum frequency of 6 GHz and offers excellent VSWR of 1.24:1. Its right angle body geometry facilitates connections in tight spaces. 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 RA SMA male connector FMCN45952 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		6	GHz
VSWR			1.24:1	
Operating Voltage (AC)			335	Vrms
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	0.65 in [16.51 mm]
Width	0.315 in [8.00 mm]
Height	0.496 in [12.6 mm]
Weight	0.012 lbs [5.44 g]
Mating Torque	3 to 5 in-lbs [0.34 to 0.57 Nm]

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### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 50 µin minimum
Insulation	Teflon	
Body	Beryllium Copper	Gold 3 µin minimum
Coupling Nut	Beryllium Copper	Gold 3 µin minimum
Gasket	Silicone	
Crimp Sleeve	Brass	Gold 3 µin minimum
Washer	Beryllium Copper	

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-65 to +165 deg C

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

### Plotted and Other Data

Notes:

Non-Magnetic SMA Male Right Angle Connector Crimp/Solder Attachment for RG174U 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 Male Right Angle Connector Crimp/Solder Attachment for RG174U FMCN45952](#)

URL: <https://www.fairviewmicrowave.com/sma-male-rg188-ds-rg316-ds-connector-fmcn45952-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.

FMCN45952 CAD Drawing
Non-Magnetic SMA Male Right Angle Connector Crimp/Solder Attachment for RG174U

