

Non-Magnetic SMA Male Straight Body Connector Crimp/Solder Attachment for RG174U

FMCN45951



Configuration

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

Features

- Operating Frequency of 6 GHz Max.
- Excellent VSWR of 1.21:1
- Gold Plated Beryllium Copper Contact
- 50 µin minimum contact plating

Applications

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

Description

SMA Male Non-Magnetic Connector Crimp/Solder Attachment for RG174 and RG174NM Cable, part number FMCN45951, 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 1.21:1. 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 male connector FMCN45951 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 | | | 1.21:1 | |
| Operating Voltage (AC) | | | 335 | Vrms |
| Impedance | | 50 | | Ohms |

Mechanical Specifications

Size

| | |
|---------------|---------------------------------|
| Length | 0.593 in [15.06 mm] |
| Width | 0.315 in [8.00 mm] |
| Height | 0.315 in [8 mm] |
| Weight | 0.016 lbs [7.26 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

Temperature

Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

Non-Magnetic SMA Male Straight Body 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 Straight Body Connector Crimp/Solder Attachment for RG174U FMCN45951](#)

URL: <https://www.fairviewmicrowave.com/sma-male-rg188-ds-rg316-ds-connector-fmcn45951-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.

FMCN45951 CAD Drawing
Non-Magnetic SMA Male Straight Body Connector Crimp/Solder Attachment for RG174U

