

RA 2.92mm Male Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM- SR047CUTN-COIL, .047 Semi-Rigid Cable



FMCN51272

Configuration

- 2.92mm Male Connector
- 50 Ohms
- Right Angle Body Geometry
- Connector Interface Types: FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid

Features

- Operating Frequency of 40 GHz Max.
- Good VSWR of 1.35:1
- Gold over Nickel Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Custom Cable Assemblies

Description

RA 2.92mm Male Standard Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL and .047 Semi-Rigid Cable, part number FMCN51272, from Fairview Microwave is in-stock and ships same day. This 2.92mm male connector operates up to a maximum frequency of 40 GHz and offers good VSWR of 1.35:1. Its right angle body geometry facilitates connections in tight spaces.

Fairview's RA 2.92mm male connector FMCN51272 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		40	GHz
VSWR			1.35:1	
Insertion Loss			0.253	dB
Operating Voltage (AC)			250	Vrms
Dielectric Withstanding Voltage (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
RF Leakage	100			dB
Impedance		50		Ohms

Electrical Specification Notes:
Insertion loss is = $0.04 \cdot \sqrt{F(\text{GHz})}$ dB

Mechanical Specifications

Size

Length	0.704724 in [17.9 mm]
Width	0.291339 in [7.4 mm]
Height	0.80315 in [20.4 mm]

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Weight	0.015 lbs [6.8 g]
Mating Cycles	5,000 Cycles
Mating Torque	11.47 to 15 in-lbs [[1.30 to 1.70 Nm]]
Cable Retention Force	4.9 lbs [2.22 kg]

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel
Insulation	PPO	
Body	Stainless Steel	Passivated
Coupling Nut	Stainless Steel	Passivated
Retaining Ring	Beryllium Copper	Copper-Tin-Zinc Alloy
Gasket	Silicone	
Solder Sleeve	Brass	Tri-Metal

Environmental Specifications

Temperature	
Operating Range	-55 to +105 deg C
Thermal Shock	MIL-STD-202, Method 107, Condition B

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

Plotted and Other Data

Notes:

RA 2.92mm Male Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid Cable 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 2.92mm Male Connector Clamp/Solder Attachment for FM-SR047ALTN-COIL, FM-SR047CU-COIL, FM-SR047CUTN-COIL, .047 Semi-Rigid Cable FMCN51272](#)

URL: <https://www.fairviewmicrowave.com/2.92mm-male-fm-sr047altn-coil-fm-sr047cu-coil-fm-sr047cutn-coil-.047-semi-rigid-connector-fmcn51272-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.

FMCN51272 CAD Drawing

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