

SMA Female Bulkhead Space Connector Clamp/ Solder Attachment for FM-R200LL Cable



FMCN5142

Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- Connector Interface Types: FM-R200LL
- Bulkhead
- Space Design

Features

- Operating Frequency of 26.5 GHz Max.
- Excellent VSWR of 1.2:1
- Gold Plated Beryllium Copper Contact
- 30 µin min per ASTM-B-488 over 50 µin min Nickel per AMS-QQ-N-290 contact plating

Applications

- General Purpose Test
- Rack and Panel Mount Applications
- Custom Cable Assemblies
- Low Earth Orbit (LEO)
- Space Applications (Exploration, Launches, Maintenance, Stations)
- Ground Systems
- Satellites
- Launch Vehicles
- Rover Vehicles

Description

SMA Female Bulkhead Space Bulkhead Connector Clamp/Solder Attachment for FM-R200LL Cable, part number FMCN5142, from FairviewMicrowave is in-stock and ships same day. This SMA female connector operates up to a maximum frequency of 26.5 GHz and offers excellentVSWR of 1.2:1. Fairview's FMCN5142 bulkhead SMA connector enables designers to make external connections on product enclosures, andcan be used in a variety of other rack mount and panel mount applications. The beryllium copper contact material for this connector has a gold plating while the body is a passivated stainless steel material. This FMCN5142 SMA female connector is designed for space applications such as satellites, space exploration, space stations, and low Earth orbit (LEO).

Fairview's SMA female bulkhead connector FMCN5142 datasheet specifications and outline drawing are shown in this PDF below. Ourextensive offering of RF, microwave and millimeter wave connectors allows designers to configure and customize their signal connectionshowever they like. From providing an I/O for a board design to creating a custom cable assembly configuration, Fairview Microwave has aconnector solution to meet your needs. Fairview Microwave also has the expertise to build your custom cable assemblies for you and shipthem same-day.

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		26.5	GHz
VSWR			1.2:1	
Impedance		50		Ohms

Mechanical Specifications

Size

Length	1.39 in [35.31 mm]
Width	0.437 in [11.1 mm]
Height	0.437 in [11.1 mm]
Weight	0.031 lbs [14.06 g]

SMA Female Bulkhead Space Connector Clamp/ Solder Attachment for FM-R200LL Cable



FMCN5142

Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold 30 µin min per ASTM-B-488 over 50 µin min Nickel per AMS-QQ-N-290
Insulation	PTFE	
Body	Stainless Steel	Passivated AMS-2700
Retaining Ring	Beryllium Copper	
Gasket	Silicone Rubber	
Crimp Sleeve	Brass	Gold
O-Ring	Silicone Rubber	

Mechanical Specification Notes:
Interface in accordance with MIL-STD-348

Environmental Specifications

Temperature
Operating Range -65 to +165 deg C

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

Plotted and Other Data

Notes:

SMA Female Bulkhead Space Connector Clamp/Solder Attachment for FM-R200LL 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: [SMA Female Bulkhead Space Connector Clamp/Solder Attachment for FM-R200LL Cable FMCN5142](#)

URL: <https://www.fairviewmicrowave.com/product/rf-connectors/sma-female-fm-r200ll-connector-fmcn5142.html>

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.

FMCN5142 CAD Drawing
SMA Female Bulkhead Space Connector Clamp/Solder Attachment for FM-R200LL Cable

