

## SMA Female Bulkhead Hermetically Sealed Connector Terminal Solder/Solder Attachment



### FMCN1959

#### Configuration

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- Bulkhead

#### Features

- Operating Frequency of 18 GHz Max.
- Excellent VSWR of 1.2:1
- Hermetically Sealed
- Gold over Nickel over Copper Plated Beryllium Copper Contact
- Kovar Glass Bead

#### Applications

- General Purpose Test
- Rack and Panel Mount Applications

#### Description

SMA Female Bulkhead Standard Hermetically Sealed Bulkhead Connector Solder/Solder Attachment, part number FMCN1959, 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 1.2:1. Fairview's FMCN1959 bulkhead SMA connector enables designers to make external connections on product enclosures, and can be used in a variety of other rack mount and panel mount applications.

Fairview's SMA female bulkhead connector FMCN1959 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			1.2:1	
Insertion Loss			0.169	dB
Operating Voltage (AC)			500	Vrms
Dielectric Withstanding Voltage (AC)			1,500	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms
Impedance		50		Ohms

#### Mechanical Specifications

##### Size

Length	0.67 in [17.02 mm]
Width	0.44 in [11.18 mm]
Height	0.44 in [11.18 mm]
Weight	0.02 lbs [9.07 g]
Mating Cycles	500 Cycles
Mating Torque	7 to 9.5 in-lbs [[0.79 to 1.07 Nm]]

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Cable Retention Force 6.1 lbs [2.77 kg]

#### Material Specifications

Description	Material	Plating
Contact	Beryllium Copper	Gold over Nickel over Copper
Insulation	PTFE	
Body	Stainless Steel	Gold over Nickel over Copper
Gasket	Silicone	

Mechanical Specification Notes:  
1x10<sup>-8</sup> cc/sec at 1ATM of Helium

#### Environmental Specifications

<b>Temperature</b>	
Operating Range	-65 to +165 deg C
Humidity	MIL-STD-202, Method106
Thermal Shock	MIL-STD-202, Method107, Condition B
Salt Spray	MIL-STD-202, Method101, Condition B
Hermetic Seal	1*10 <sup>-8</sup> cc/sec of HELIUM at 1 ATM

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

#### Plotted and Other Data

Notes:

SMA Female Bulkhead Hermetically Sealed Connector Terminal Solder/Solder Attachment 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 Hermetically Sealed Connector Terminal Solder/Solder Attachment FMCN1959](#)

URL: <https://www.fairviewmicrowave.com/sma-female-terminal-connector-fmcn1959-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.

FMCN1959 CAD Drawing
SMA Female Bulkhead Hermetically Sealed Connector Terminal Solder/Solder Attachment

