

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

SMA Female Bulkhead Standard Hermetically Sealed Bulkhead Connector Solder/Solder Attachment, part number FMCN1961, from Fairview Microwave is in-stock and ships same day. This SMA female connector operates up to a maximum frequency of 16 GHz and offers excellent VSWR of 1.2:1. Fairview's FMCN1961 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 FMCN1961 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               | Min   | Typ | Max   | Units |
|---------------------------|-------|-----|-------|-------|
| Frequency Range           | DC    |     | 16    | GHz   |
| VSWR                      |       |     | 1.2:1 |       |
| Insertion Loss            |       |     | 0.16  | dB    |
| Operating Voltage (AC)    |       |     | 500   | Vrms  |
| DWV (AC)                  |       |     | 1,500 | Vrms  |
| Inner Cond. DC Resistance |       |     | 3     | mOhms |
| Outer Cond. DC Resistance |       |     | 2     | mOhms |
| Insulation Resistance     | 5,000 |     |       | MOhms |

### Mechanical Specifications

|                       |                    |
|-----------------------|--------------------|
| <b>Size</b>           |                    |
| Length                | 0.69 in [17.53 mm] |
| Width/Dia.            | 0.44 in [11.18 mm] |
| Height                | 0.44 in [11.18 mm] |
| Weight                | 0.17 lbs [77.11 g] |
| Mating Cycles         | 100 Cycles         |
| Mating Torque         | 4 in-lbs [0.45 Nm] |
| 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        | Brass            | Gold over Nickel over Copper |
| Gasket      | Silicone         |                              |



### Configuration:

- SMA Female Connector
- 50 Ohms
- Straight Body Geometry
- Solder/Solder Attachment
- Bulkhead

### Features:

- Operating Frequency of 16 GHz Max.
- Excellent VSWR of 1.2:1
- Hermetically Sealed
- Gold over Nickel over Copper Plated Beryllium Copper Contact

### Applications:

- General Purpose Test
- Rack and Panel Mount Applications

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## Environmental Specifications

### Temperature

|                 |                                     |
|-----------------|-------------------------------------|
| 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*10-6cc/sec helium at 1atm         |

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

## Plotted and Other Data

### Notes:

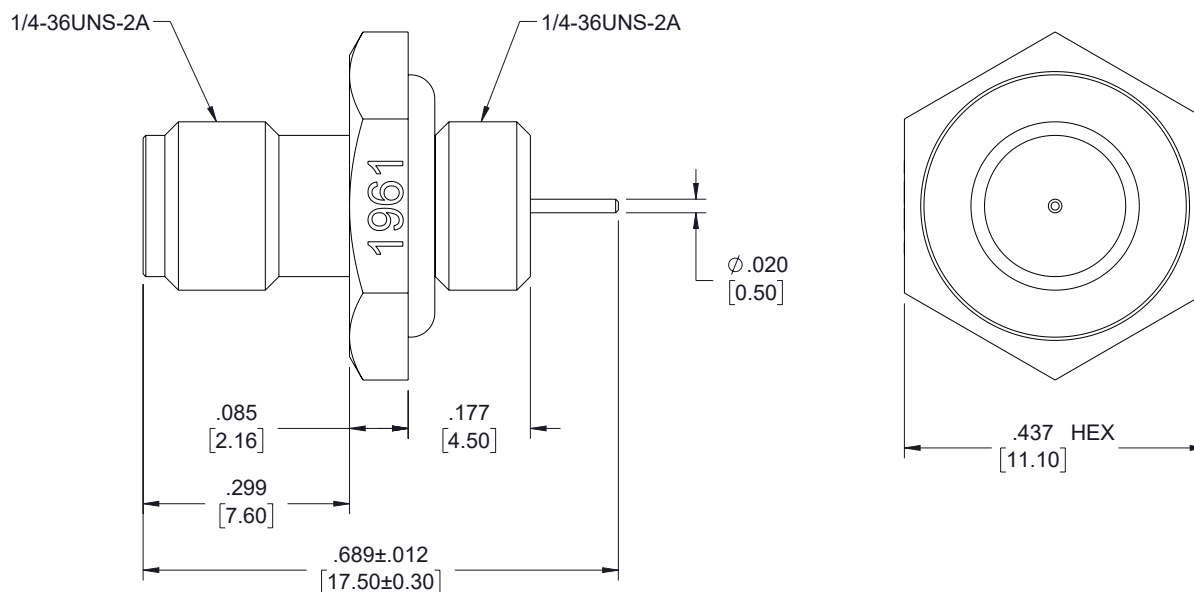
SMA Female Bulkhead Hermetically Sealed Connector Terminal Solder/Solder Attachment from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [SMA Female Bulkhead Hermetically Sealed Connector Terminal Solder/Solder Attachment FMCN1961](#)

URL: <https://www.fairviewmicrowave.com/sma-female-terminal-connector-fmcn1961-p.aspx>

The information contained in 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 any liability arising out of the use of any part or documentation.

| REVISIONS |                 |            |          |
|-----------|-----------------|------------|----------|
| REV.      | DESCRIPTION     | DATE       | APPROVED |
| A         | INITIAL RELEASE | 12/13/2022 | AGANWANI |



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TITLE

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES  
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS  
.XX = ±.02 [.51] ± 1/32  
.XXX = ±.005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0  
12 [305] < L ≤ 60 [1524] = +2 [51] / -0  
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0  
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0  
300 [7620] < L = +5%L / -0

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

SCALE

N/A

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

| SIZE | CAGE CODE | DRAWN BY | ITEM NO. | REV |
|------|-----------|----------|----------|-----|
| A    | 3FKR5     | HBAKKE   | FMCN1961 | A   |

T-Rev.D