

Hermetically Sealed SMA Female to SMA Female Bulkhead Adapter MIL-STD-202, Method 206 18GHz VSWR1.2, MIL-STD 348B



FMAD1358

Configuration

- SMA Female Connector 1
- SMA Female Connector 2
- 50 Ohms Impedance
- Straight Body Geometry
- Bulkhead Mount Method

Features

- VSWR of 1.2:1 max up to 18 GHz
- Hermetically Sealed
- Gold Plated Beryllium Copper Contact

Applications

- General Purpose Test
- Vacuum Test Environment
- Rack Mounted Equipment

Description

Hermetically sealed SMA female to SMA female bulkhead adapter part number FMAD1358 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA adapter has a female to female gender configuration. FMAD1358 SMA female to SMA female adapter is gold plated and operates to 18 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.2:1 maximum. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our RF SMA to SMA bulkhead adapter allows designers to create external connections on their product enclosures, and can be used in a variety of other rack mount and panel mount applications. The Fairview Microwave hermetic SMA to SMA adapter prevents the leakage of gases, making it suitable for high pressure or vacuum applications or whenever an airtight seal is required.

RF adapters can be used to enable connections between two connector types that would otherwise not mate. Certain RF adapter configurations can also be used to protect connectors on expensive equipment where the number of connect and disconnect cycles is high. An RF, microwave, or millimeter wave adapter is connected to the equipment and the commonly changed connection is made with the adapter which can be easily replaced when it wears out after high usage; such adapters are referred to as connector savers. Fairview Microwave also offers bulkhead, panel mount, hermetically sealed, reverse polarity, and isolated ground adapter varieties to serve all of your RF, microwave and millimeter wave needs.

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|--------------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 18 | GHz |
| Impedance | | 50 | | Ohms |
| VSWR | | | 1.2:1 | |
| Insertion Loss | | | 0.16 | dB |
| Operating Voltage (AC) | | | 500 | Vrms |
| Dielectric Withstanding Voltage (AC) | | | 1,500 | Vrms |
| Insulation Resistance | 5,000 | | | MOhms |

Mechanical Specifications

Size

| | |
|--------|--------------------|
| Length | 0.90 in [22.86 mm] |
| Width | 0.50 in [12.70 mm] |
| Height | 0.50 in [12.70 mm] |

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| Weight | 0.01 lbs [3.63 g] | |
|--------------------------------------|----------------------|----------------------|
| Description | Connector 1 | Connector 2 |
| Polarity | Standard | Standard |
| Connector Option | Hermetically Sealed | Hermetically Sealed |
| Mating Cycles, Min | 100 | 100 |
| Mating Torque | 4 in-lbs 0.45 Nm min | 4 in-lbs 0.45 Nm min |
| Contact Captivation Axial Force, Min | 6.1 lbs [2.77 kg] | 6.1 lbs [2.77 kg] |
| Coupling Proof Torque | 5.3 in-lbs [0.6 Nm] | 5.3 in-lbs [0.6 Nm] |

Material Specifications

| Description | Connector 1 | | Connector 2 | |
|-----------------|------------------|---------|------------------|---------|
| | Material | Plating | Material | Plating |
| Type | SMA Female | | SMA Female | |
| Contact | Beryllium Copper | Gold | Beryllium Copper | Gold |
| Insulation | PTFE | | PTFE | |
| Outer Conductor | Brass | Gold | Brass | Gold |
| Body | Brass | Gold | Brass | Gold |

Environmental Specifications

Temperature

Operating Range

Humidity

Thermal Shock

Salt Spray

Hermetic Seal

-65 to +165 °C

MIL-STD-202, Method 206

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B

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

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

Plotted and Other Data

Hermetically Sealed SMA Female to SMA Female Bulkhead Adapter MIL-STD-202, Method 206 18GHz VSWR1.2, MIL-STD 348B 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: [Hermetically Sealed SMA Female to SMA Female Bulkhead Adapter MIL-STD-202, Method 206 18GHz VSWR1.2, MIL-STD 348B FMAD1358](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/hermetically-sealed-sma-female-to-sma-female-bulkhead-adapter-mil-std-202-method-206-18ghz-vswr1.2-mil-std-348b-fmad1358.html>

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FMAD1358 CAD Drawing

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