

## Hermetically Sealed 2.4mm Female to 2.4mm Female Bulkhead Adapter 50GHz VSWR1.35, MIL-STD-348B

### FMAD1337



#### Configuration

- 2.4mm Female Connector 1
- 2.4mm Female Connector 2
- 50 Ohms Impedance
- Straight Body Geometry
- Bulkhead Mount Method

#### Features

- VSWR of 1.35:1 max up to 50 GHz
- Hermetically Sealed
- 2.4mm interface meets MIL-STD-348B
- Gold Plated Beryllium Copper Contact

#### Applications

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

#### Description

Hermetically sealed 2.4mm female to 2.4mm female bulkhead adapter part number FMAD1337 from Fairview Microwave is in-stock and ships same day. This Fairview 2.4mm to 2.4mm adapter has a female to female gender configuration and is built of durable stainless steel. FMAD1337 2.4mm female to 2.4mm female adapter operates to 50 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.35:1 maximum. The 2.4mm connector mates mechanically with commercially available 1.85mm (V) connectors. Our RF 2.4mm to 2.4mm 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 2.4mm to 2.4mm 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		50	GHz
Impedance		50		Ohms
VSWR			1.35:1	
Insertion Loss			0.56	dB
Operating Voltage (AC)			150	Vrms
Dielectric Withstanding Voltage (AC)			500	Vrms
Insulation Resistance	5,000			MOhms

#### Mechanical Specifications

##### Size

Length	0.92 in [23.37 mm]
Width	0.56 in [14.22 mm]
Height	0.56 in [14.22 mm]

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Weight	0.01 lbs [3.63 g]	
Description	Connector 1	Connector 2
Polarity	Standard	Standard
Interface Specification	MIL-STD-348B	MIL-STD-348B
Connector Option	Hermetically Sealed	Hermetically Sealed
Mating Cycles, Min	500	500
Mating Torque	7.08 to 9.74 in-lbs 0.80 to 1.10 Nm	7.08 to 9.74 in-lbs 0.80 to 1.10 Nm
Contact Captivation Axial Force, Min	4.5 lbs [2.04 kg]	4.5 lbs [2.04 kg]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]

**Material Specifications**

Description	Connector 1		Connector 2	
	Material	Plating	Material	Plating
Type	2.4mm Female		2.4mm Female	
Contact	Beryllium Copper	Gold	Beryllium Copper	Gold
Insulation	PEI		PEI	
Outer Conductor	Stainless Steel	Passivated	Stainless Steel	Passivated
Body	Stainless Steel	Passivated	Stainless Steel	Passivated

**Environmental Specifications**

**Temperature**

Operating Range

Humidity

Thermal Shock

Salt Spray

Hermetic Seal

-30 to +165 °C

MIL-STD-202, Method 206

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B

1\*10<sup>-8</sup> cc/sec of HELIUM at 1 ATM

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

#### Plotted and Other Data

Hermetically Sealed 2.4mm Female to 2.4mm Female Bulkhead Adapter 50GHz VSWR1.35, 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 2.4mm Female to 2.4mm Female Bulkhead Adapter 50GHz VSWR1.35, MIL-STD-348B FMAD1337](#)

URL: <https://www.fairviewmicrowave.com/product/rf-adapters/hermetically-sealed-2.4mm-female-to-2.4mm-female-bulkhead-adapter-mil-std-202-method-206-50ghz-vswr1.35-mil-std-348b-with-stainless-steel-body-fmad1337.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.

FMAD1337 CAD Drawing

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