

## Hermetically Sealed 2.4mm Female to 2.4mm Female Bulkhead Adapter MIL-STD-202, Method 206 50GHz VSWR1.35, MIL-STD-348B

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            | Min   | Typ | Max    | Units |
|------------------------|-------|-----|--------|-------|
| Frequency Range        | DC    |     | 50     | GHz   |
| VSWR                   |       |     | 1.35:1 |       |
| Insertion Loss         |       |     | 0.56   | dB    |
| Operating Voltage (AC) |       |     | 150    | Vrms  |
| DWV (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] |
| Weight | 0.01 lbs [3.63 g]  |

| Description                          | Connector 1                              | Connector 2                              |
|--------------------------------------|--|--|
| Type                                 | 2.4mm Female                             | 2.4mm Female                             |
| 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<br>[0.80 to 1.10 Nm] | 7.08 to 9.74 in-lbs<br>[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]                       |



### Configuration:

- 2.4mm Female Connector 1
- 2.4mm Female Connector 2
- 50 Ohm
- 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

Fairview Microwave  
 301 Leora Ln., Suite 100  
 Lewisville, TX 75056  
 Tel: 1-800-715-4396 / (972) 649-6678  
 Fax: (972) 649-6689  
[www.fairviewmicrowave.com](http://www.fairviewmicrowave.com)  
[sales@fairviewmicrowave.com](mailto:sales@fairviewmicrowave.com)

**Material Specifications**

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

**Environmental Specifications**
**Temperature**

Operating Range

Humidity

Thermal Shock

Salt Spray

Hermetic Seal

-10 to +165 deg 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

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

**Plotted and Other Data**

Notes:

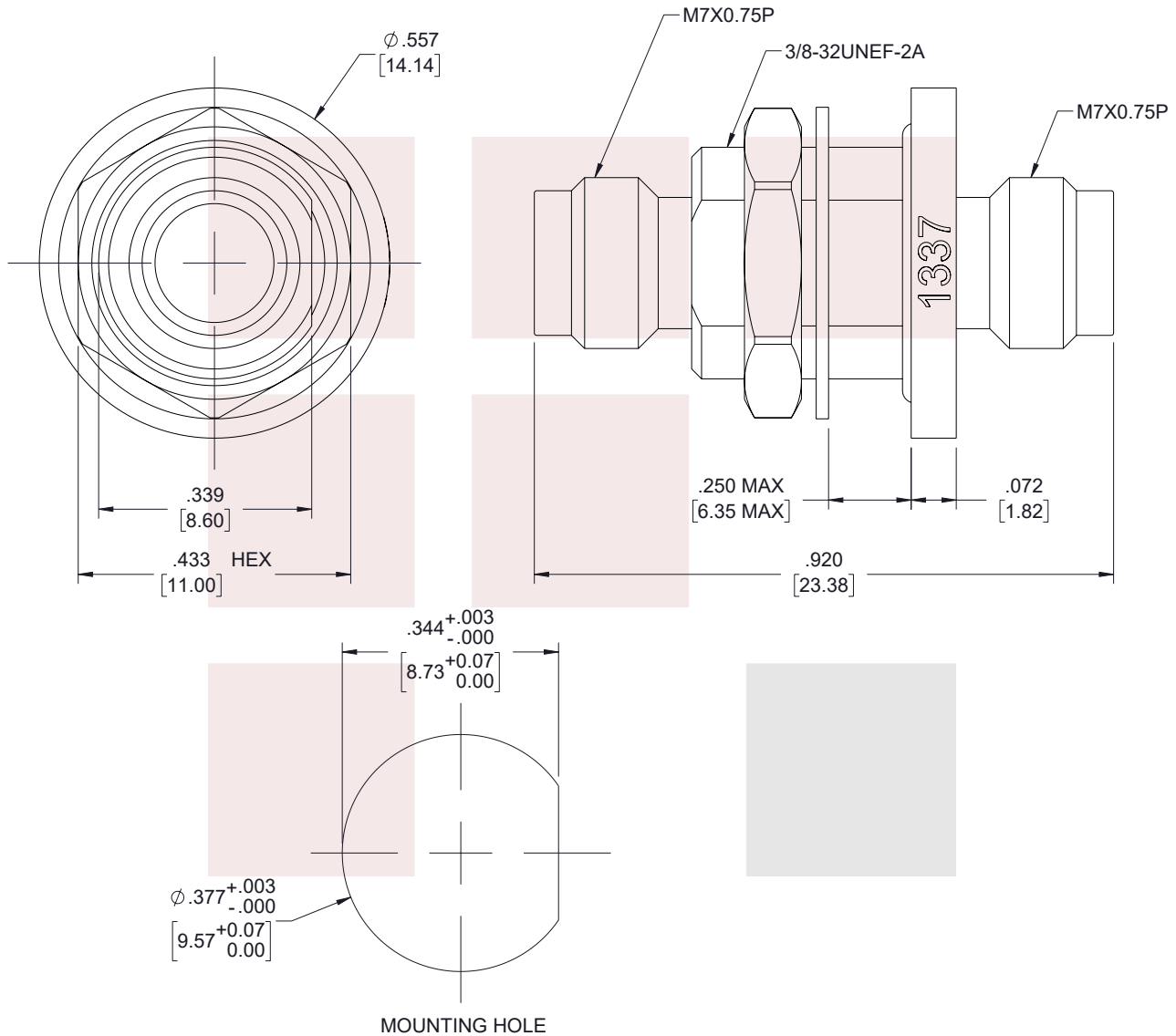
Hermetically Sealed 2.4mm Female to 2.4mm Female Bulkhead Adapter MIL-STD-202, Method 206 50GHz VSWR1.35, MIL-STD-348B from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, 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 MIL-STD-202, Method 206 50GHz VSWR1.35, MIL-STD-348B FMAD1337](#)

URL: <https://www.fairviewmicrowave.com/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-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 | 12/09/2022 | AGANWANI |



THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.

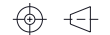
TITLE

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

TOLERANCES: CABLE LENGTH (L) TOLERANCES:

|                    |                  |   |
|--------------------|------------------|---|
| .X = ±.2 [5.08]    | FRACTIONS ± 1/32 | L ≤ 12 [305] = +1 [25] / -0                 |
| .XX = ±.02 [.51]   | ANGLES ± 1°      | 12 [305] < L ≤ 60 [1524] = +2 [51] / -0     |
| .XXX = ±.005 [.13] |                  | 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



THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED.

SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

|           |                    |                    |                      |          |
|-----------|--------------------|--------------------|----------------------|----------|
| SIZE<br>A | CAGE CODE<br>3FKR5 | DRAWN BY<br>HBAKKE | ITEM NO.<br>FMAD1337 | REV<br>A |
|-----------|--------------------|--------------------|----------------------|----------|

T-Rev.D