

Hermetically Sealed 2.4mm Female to 2.4mm Female Bulkhead Adapter with Passivated Stainless Steel Body

Hermetically sealed 2.4mm female to 2.4mm female bulkhead adapter part number FMAD1204 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. FMAD1204 2.4mm female to 2.4mm female adapter is gold plated and operates to 45 GHz. The Fairview Microwave RF adapter provides good VSWR of 1.45:1 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		45	GHz
VSWR			1.45:1	

Mechanical Specifications

Size	
Length	0.910 in [23.1 mm]
Width	0.55 in [13.97 mm]
Weight	0.3 lbs [136.08 g]

Description	Connector 1	Connector 2
Type	2.4mm Female	2.4mm Female
Polarity	Standard	Standard
Connector Option	Hermetically Sealed	Hermetically Sealed

Mechanical Specification Notes:

The glass bead seal in the center of the adapter is sensitive to shock and axial pressure. If the adapter is subjected to shock and overtorquing of the coupling nut, the glass bead interseal will shatter easily. Jam nut torque not to exceed 15 inch pounds.



Configuration:

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

Features:

- VSWR of 1.45:1 max up to 45 GHz
- Hermetically Sealed
- 4µ in. minimum contact plating
- Gold over Nickel Plated Beryllium Copper Contact

Applications:

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

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Material Specifications

Description	Connector 1	Connector 2
Type	2.4mm Female	2.4mm Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold over Nickel	Gold over Nickel
Contact Plating Spec.	4µ in. minimum	4µ in. minimum
Insulation Material	PEI	PEI
Outer Contact Material	Passivated Stainless Steel	Passivated Stainless Steel
Body Material	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating	Gold	Gold
Body Plating Spec.	5µ in. minimum	5µ in. minimum
Gasket Material	Silicone	Silicone
Washer Material	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications
Temperature

Operating Range

-55 to +100 deg C

Vibration

MIL-STD 202, Method 204, Condition D (20 G's)

Salt Spray

MIL-STD 202, Method 101, Condition B, 5% salt solution

Hermetic Seal

 Shall pass no more than 1×10^{-8} cc/sec He at 1 atm

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

Plotted and Other Data

Notes:

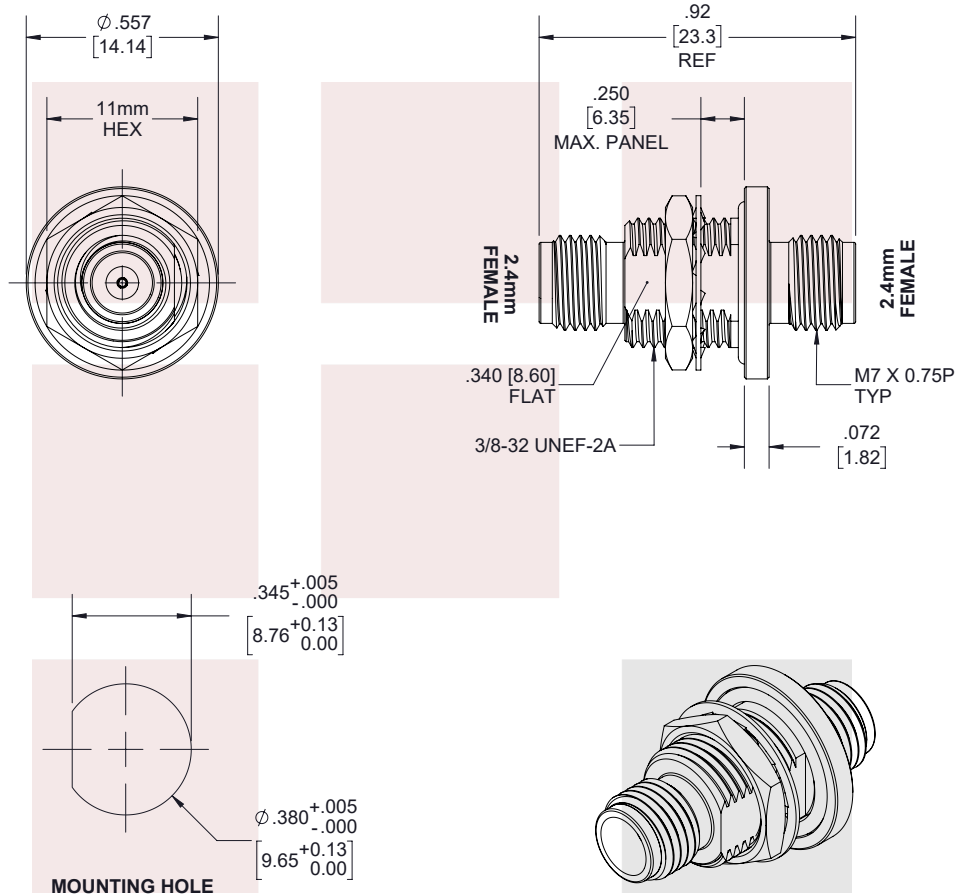
Hermetically Sealed 2.4mm Female to 2.4mm Female Bulkhead Adapter with Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview 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 with Passivated Stainless Steel Body FMAD1204](#)

URL: <https://www.fairviewmicrowave.com/hermetically-sealed-2.4mm-female-2.4mm-female-bulkhead-adapter-fmad1204-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
	INITIAL RELEASE	11/13/19	S.ELLIS



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	TOLERANCES:		CABLE LENGTH (L) TOLERANCES:	
TITLE Hermetically Sealed 2.4mm Female to 2.4mm Female Bulkhead Adapter with Passivated Stainless Steel Body	.X = ±.2 [5.08]	FRACTIONS ± 1/32	L ≤ 12 [305] = +1 [25] / -0	THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF FAIRVIEW MICROWAVE CORPORATION. ALL RIGHTS RESERVED. SHEET 1 OF 1 SCALE N/A
	.XX = ±.02 [.51]	ANGLES ± 1°	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	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.				REV A
SIZE A	CAGE CODE 3FKR5	DRAWN BY K.DANG	PART NUMBER FMAD1204	

T-Rev.D