

Hermetically Sealed 2.92mm Female to 2.92mm Female Bulkhead Adapter

Hermetically sealed 2.92mm female to 2.92mm female bulkhead adapter part number SM3224 from Fairview Microwave is in-stock and ships same day. This Fairview 2.92mm to 2.92mm adapter has a female to female gender configuration. SM3224 2.92mm female to 2.92mm female adapter operates to 40 GHz. The 2.92mm connector mates mechanically with commercially available SMA and 3.5mm connectors. Our RF 2.92mm to 2.92mm 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 2.92mm to 2.92mm adapter prevents the leakage of gases, making it suitable for high pressure or vacuum applications or whenever an airtight seal is required. The Fairview Microwave RF adapter provides good VSWR of 1.35:1 maximum.

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		40	GHz
VSWR			1.35:1	

Electrical Specification Notes:
 Values at 25°C, sea level.

Mechanical Specifications

Size	
Length	0.875 in [22.23 mm]
Width	0.555 in [14.1 mm]
Height	0.555 in [14.1 mm]
Weight	0.0216 lbs [9.8 g]

Description	Connector 1	Connector 2
Type	2.92mm Female	2.92mm Female
Polarity	Standard	Standard
Connector Option	Hermetically Sealed	Hermetically Sealed
Mating Cycles	500	500

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 overtightening of the coupling nut, the glass bead interseal will shatter easily. Jam nut torque not to exceed 15 inch pounds.



Configuration:

- 2.92mm Female Connector 1
- 2.92mm Female Connector 2
- 50 Ohms
- Straight Body Geometry
- Bulkhead Mount Method

Features:

- VSWR of 1.35:1 max up to 40 GHz
- Hermetically Sealed
- Contact plating according to MIL-G-45204
- 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	2.92mm Female	2.92mm Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold over Nickel	Gold over Nickel
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Insulation Material	Oxide-Noryl	Oxide-Noryl
Outer Contact Material	Passivated Stainless Steel	Passivated Stainless Steel
Outer Contact Plating Spec.	ASTM A380	ASTM A380

Environmental Specifications

Temperature

Operating Range
 Vibration
 Salt Spray
 Hermetic Seal

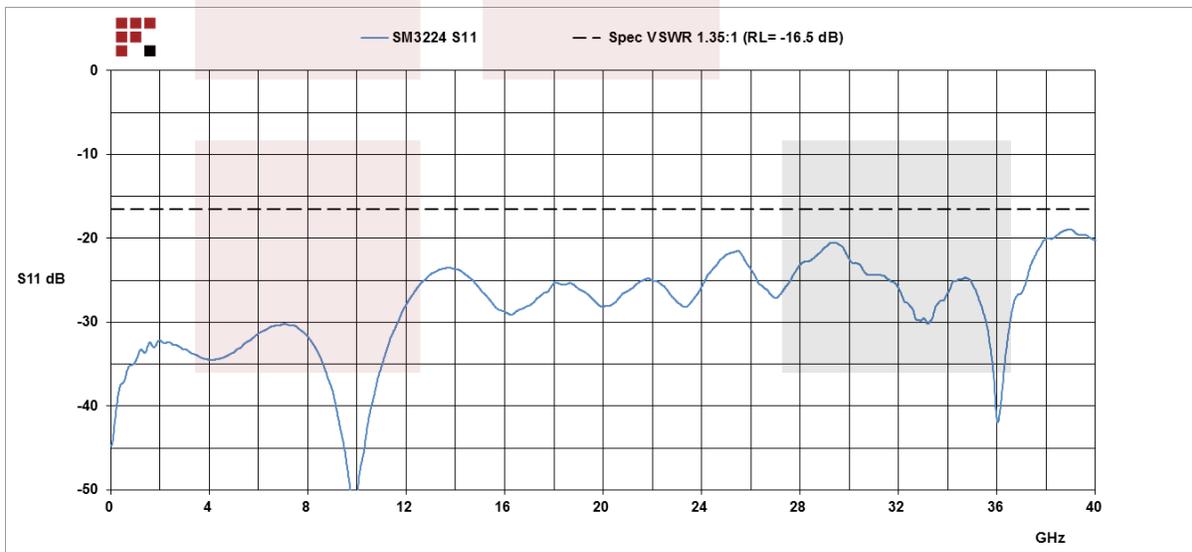
-55 to +100 deg C
 MIL-STD 202, Method 204, Condition D (20 G's)
 MIL-STD 202, Method 101, Condition B, 5% salt solution
 Shall pass no more than 1×10^{-8} cc/sec He at 1 atm

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

Plotted and Other Data

Notes:

Typical Performance Data

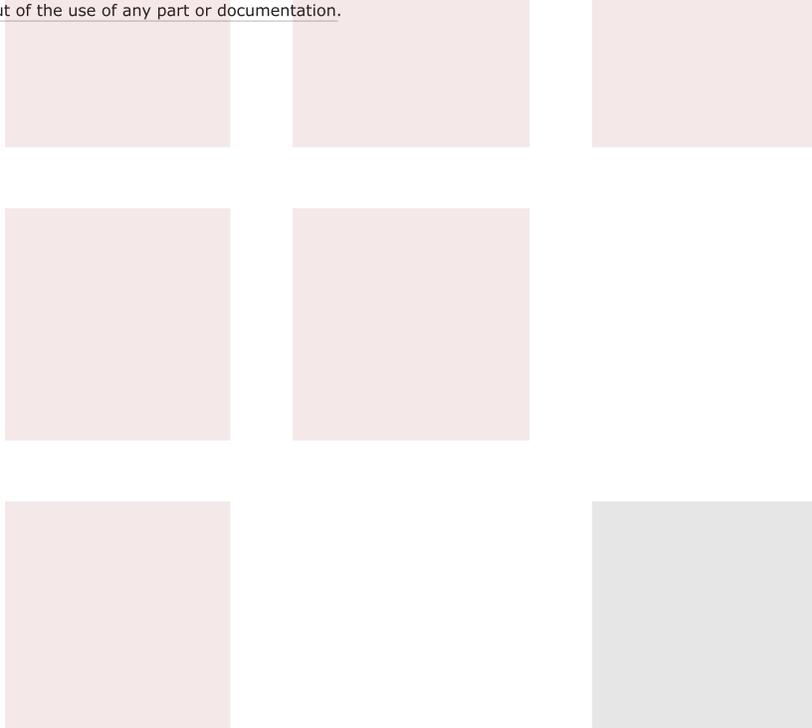


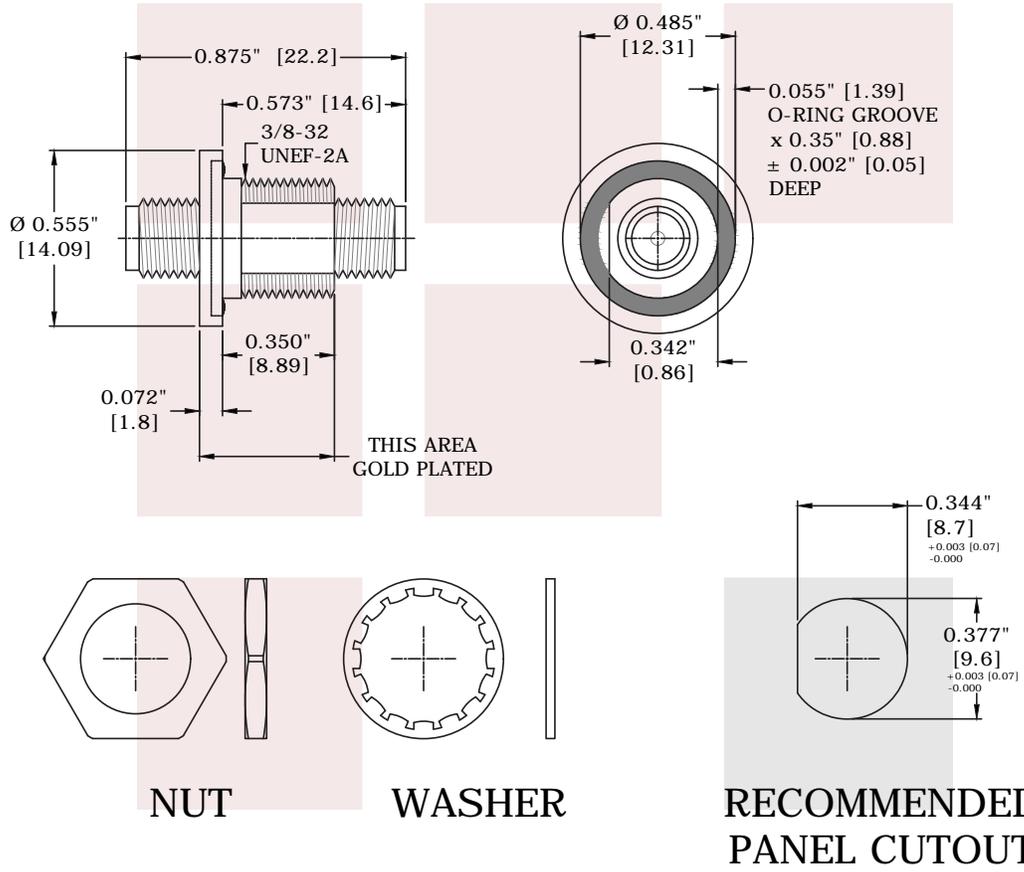
Hermetically Sealed 2.92mm Female to 2.92mm Female Bulkhead Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Hermetically Sealed 2.92mm Female to 2.92mm Female Bulkhead Adapter SM3224](#)

URL: <https://www.fairviewmicrowave.com/hermetically-sealed-2.92mm-female-2.92mm-female-bulkhead-adapter-sm3224-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.





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TITLE Hermetically Sealed 2.92mm Female to 2.92mm Female Bulkhead Adapter		DWG NO SM3224		CAGE CODE 3FKR5	
CAD FILE	120815	SHEET	SCALE	N/A	SIZE A 5568