

## Hermetically Sealed N Female to N Female Bulkhead Adapter

Hermetically sealed type N female to type N female bulkhead adapter part number SM4031 from Fairview Microwave is in-stock and ships same day. This Fairview type N to type N adapter has a female to female gender configuration. SM4031 type N female to type N female adapter operates to 12.4 GHz. Our RF type N to type N 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 type N to type N 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 1.5:1 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		12.4	GHz
VSWR			1.5:1	

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 6	6 to 12.4				GHz
VSWR, Max	1.25:1	1.5:1				

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

### Mechanical Specifications

<b>Size</b>	
Length	1.54 in [39.12 mm]
Width	0.875 in [22.23 mm]
Weight	0.1108 lbs [50.26 g]

Description	Connector 1	Connector 2
Type	N Female	N Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Connector Option	Hermetically Sealed	Hermetically Sealed



### Configuration:

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

### Features:

- VSWR of 1.5:1 max up to 12.4 GHz
- Hermetically Sealed
- N interface meets MIL-STD-348
- Contact plating according to QQ-S-365
- Silver 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	N Female	N Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Silver	Silver
Contact Plating Spec.	QQ-S-365	QQ-S-365
Insulation Material	PTFE	PTFE
Outer Contact Material	Brass	Brass
Outer Contact Plating	Nickel	Nickel
Outer Contact Plating Spec.	QQ-N-290	QQ-N-290

**Environmental Specifications**

**Temperature**

Operating Range

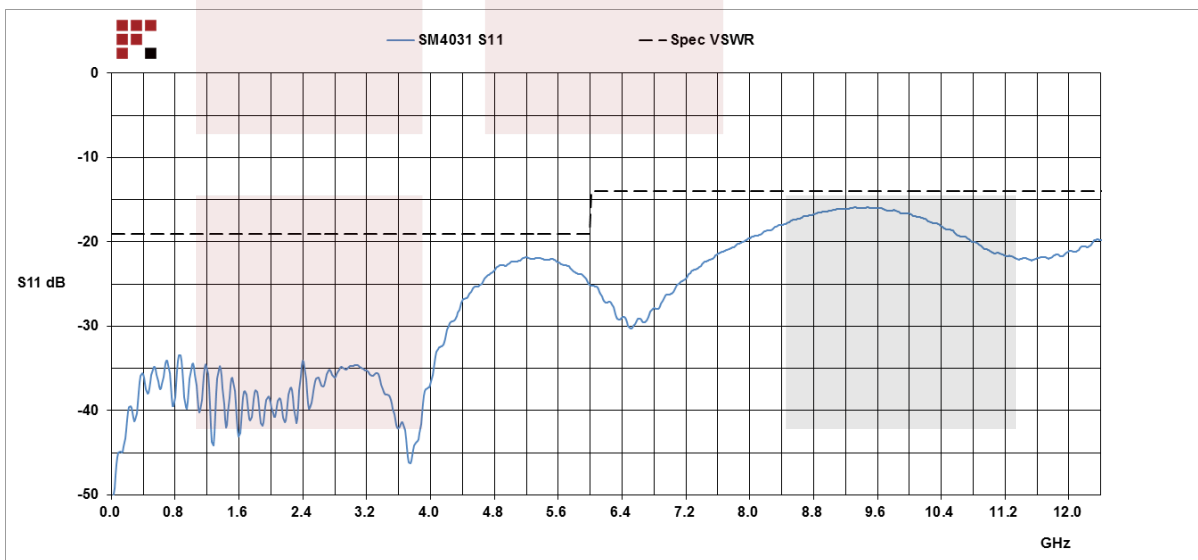
-55 to +100 deg C

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



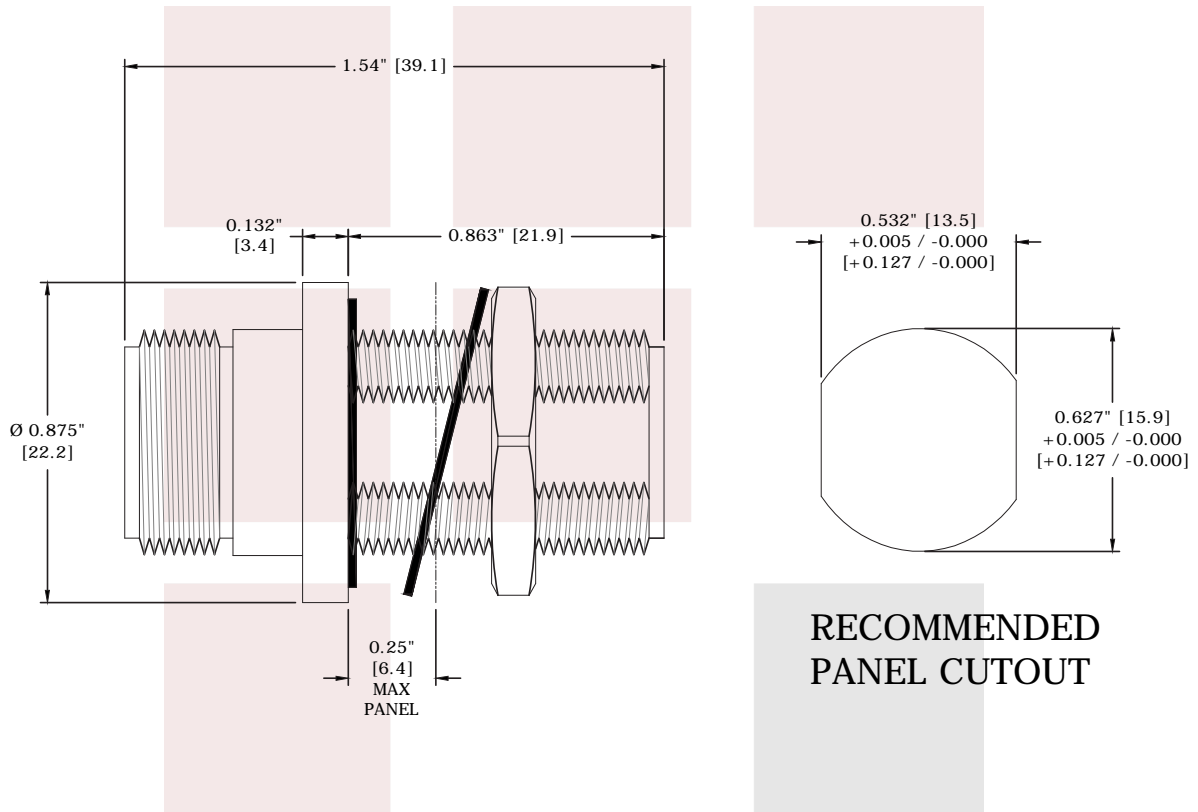
Hermetically Sealed N Female to N Female Bulkhead Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Hermetically Sealed N Female to N Female Bulkhead Adapter SM4031](#)

URL: <https://www.fairviewmicrowave.com/hermetically-sealed-n-female-n-female-bulkhead-adapter-sm4031-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.





**RECOMMENDED  
 PANEL CUTOUT**

<b>FAIRVIEW MICROWAVE INC.</b> ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].			
TITLE Hermetically Sealed N Female to N Female Bulkhead Adapter		DWG NO <b>SM4031</b>		CAGE CODE <b>3FKR5</b>	
		CAD FILE 011415	SHEET	SCALE N/A	SIZE A