

## Bulkhead SMA Female to TNC Female Adapter

Bulkhead SMA female to TNC female adapter part number SM4742 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to TNC adapter has a female to female gender configuration and is built of durable stainless steel. SM4742 SMA female to TNC female adapter operates to 18 GHz. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our RF SMA bulkhead to TNC 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 RF adapter provides good VSWR of 1.4:1 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		18	GHz
VSWR			1.4:1	

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 8	8 to 18				GHz
VSWR, Max	1.2:1	1.4:1				

Electrical Specification Notes:  
Insertion Loss =  $0.05 \cdot \sqrt{f(\text{GHz})}$   
Values at 25°C, sea level

### Mechanical Specifications

<b>Size</b>	
Length	1.3 in [33.02 mm]
Width	0.44 in [11.18 mm]
Weight	0.039 lbs [17.69 g]

Description	Connector 1	Connector 2
Type	SMA Female	TNC Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348A	MIL-STD-348A
Mating Cycles	500	500



### Configuration:

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

### Features:

- VSWR of 1.4:1 max up to 18 GHz
- SMA interface meets MIL-STD-348A
- TNC interface meets MIL-STD-348A
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

### Applications:

- Enables Between Series Connections
- General Purpose Test
- Rack Mounted Equipment

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## Material Specifications

Description	Connector 1	Connector 2
Type	SMA Female	TNC 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	PTFE	PTFE
Outer Contact Material	Passivated Stainless Steel	Passivated Stainless Steel
Outer Contact Plating Spec.	ASTM A380	ASTM A380
Body Material	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	ASTM A380	ASTM A380
Coupling Nut Material	Passivated Stainless Steel	
Coupling Nut Plating Spec.	ASTM A380	

## Environmental Specifications

### Temperature

Operating Range

-55 to +100 deg C

Vibration

MIL-STD-202 Method 204 Test Condition D 20G's

Salt Spray

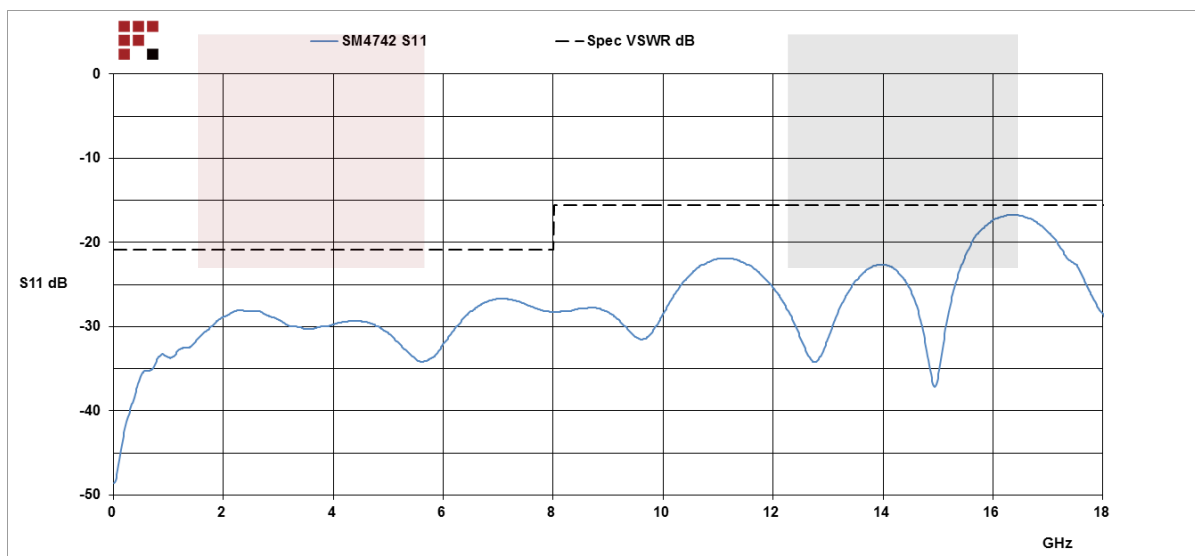
MIL-STD-202 Method 101 Test Condition B 5% Salt Solution

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

## Plotted and Other Data

Notes:

## Typical Performance Data



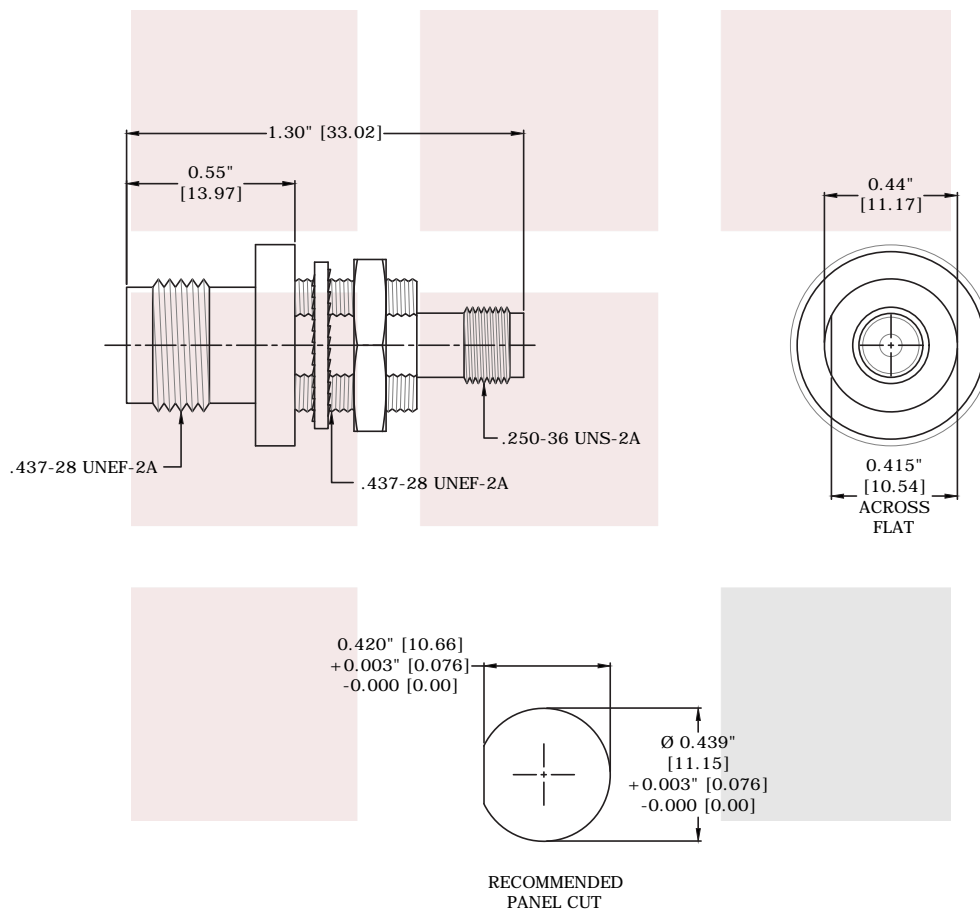
Bulkhead SMA Female to TNC Female Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Bulkhead SMA Female to TNC Female Adapter SM4742](#)

URL: <https://www.fairviewmicrowave.com/bulkhead-sma-female-tnc-female-adapter-sm4742-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.





## FAIRVIEW MICROWAVE INC.

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### 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

Bulkhead SMA Female to TNC Female Adapter

### DWG NO

SM4742

### CAGE CODE

3FKR5

### CAD FILE

061815

### SHEET

### SCALE

N/A

### SIZE

A

5568