

Push-On SMA Male to SMA Female Bulkhead Adapter

Push-on SMA male to SMA female bulkhead adapter part number FMAD1031 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA adapter has a male to female gender configuration and is built of durable stainless steel. FMAD1031 SMA male to SMA female adapter operates to 18 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.25:1 maximum. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. Our RF SMA to SMA 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.

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			1.25:1	
Operating Voltage (AC)			335	Vrms
DWV (AC)			750	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	5,000			MOhms

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 8	8 to 18				GHz
VSWR, Max	1.15:1	1.25:1				

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

Mechanical Specifications

Size	
Length	0.795 in [20.19 mm]
Width	0.377 in [9.58 mm]
Height	0.377 in [9.58 mm]
Weight	0.015 lbs [6.8 g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Connection Method	Push-On	
Polarity	Standard	Standard



Configuration:

- Push-On SMA Male Connector 1
- SMA Female Connector 2
- 50 Ohm
- Straight Body Geometry
- Bulkhead Mount Method

Features:

- VSWR of 1.25:1 max up to 18 GHz
- SMA interface meets MIL-STD-348A
- 30 μin minimum contact plating
- Gold over Nickel Plated Contact

Applications:

- General Purpose Test
- Rack Mounted Equipment

Fairview Microwave
1130 Junction Dr. #100
Allen, TX 75013
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Interface Specification	MIL-STD-348A	MIL-STD-348A
Mating Cycles	500	500

Material Specifications

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold over Nickel	Gold over Nickel
Contact Plating Spec.	30 µin minimum	30 µin minimum
Insulation Material	PTFE	PTFE
Outer Contact Material	Beryllium Copper	
Outer Contact Plating	Gold over Nickel	
Outer Contact Plating Spec.	3 µin minimum	
Body Material	Passivated Stainless Steel	Passivated Stainless Steel

Environmental Specifications

Temperature

Operating Range
 Vibration
 Salt Spray

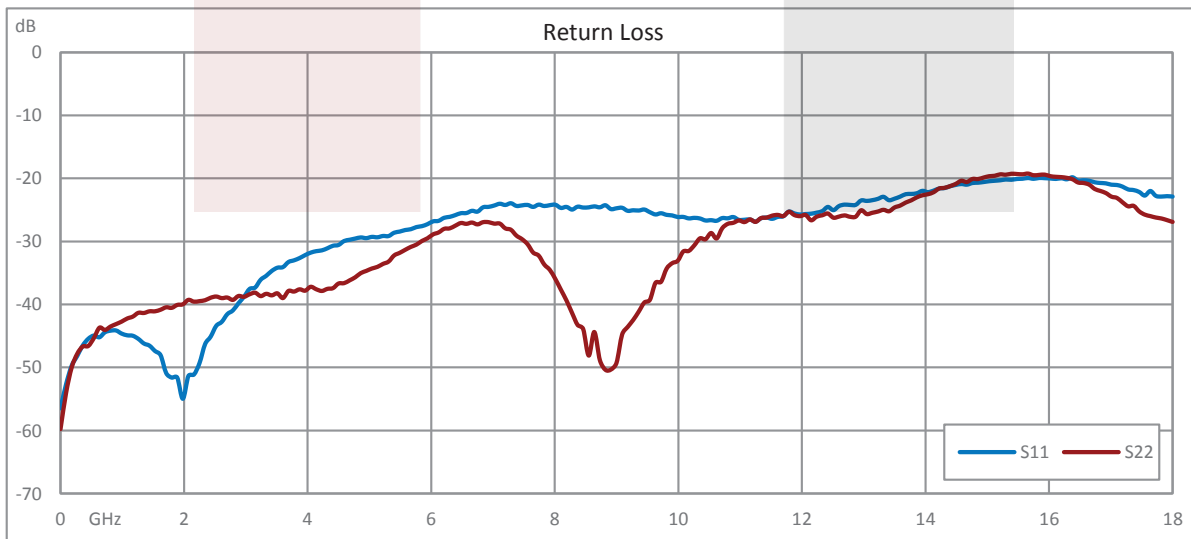
-65 to +165 deg C
 MIL-STD-202, Method 204, Condition D
 MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

Typical Performance Data



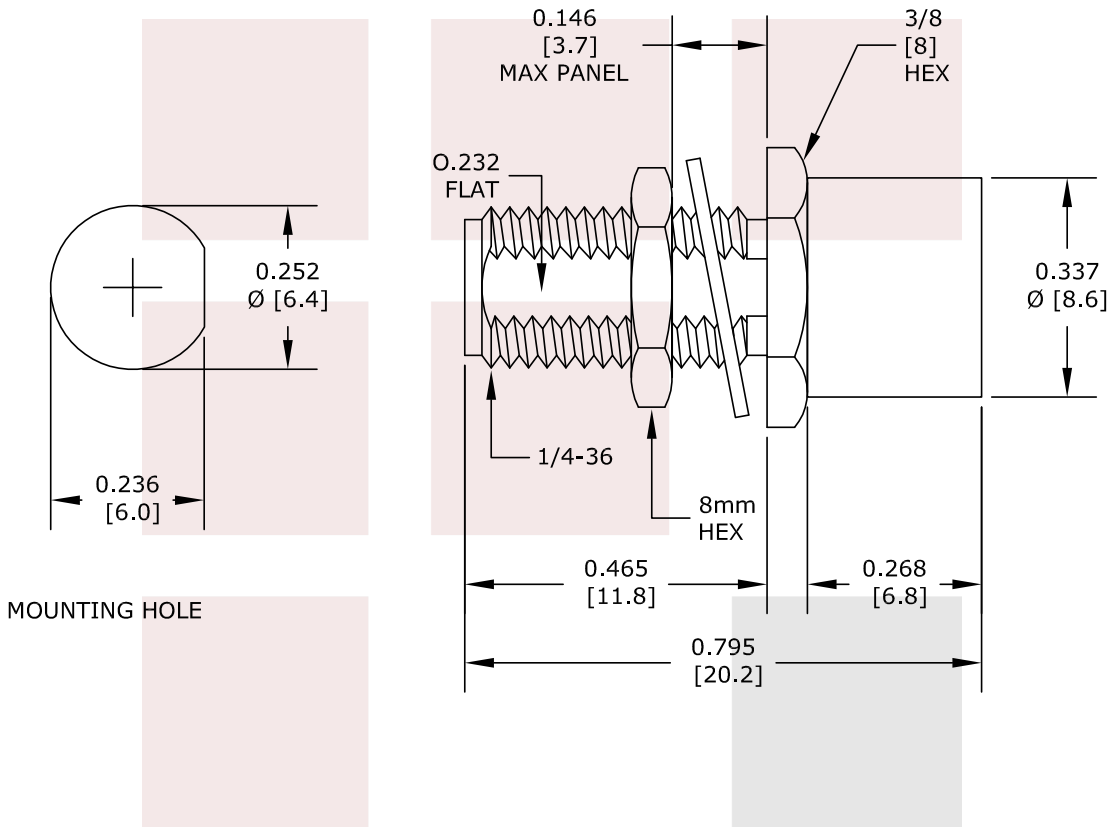
Push-On SMA Male to SMA Female Bulkhead Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Push-On SMA Male to SMA Female Bulkhead Adapter FMAD1031](#)

URL: <https://www.fairviewmicrowave.com/push-on-sma-male-sma-female-bulkhead-adapter-fmad1031-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 Push-On SMA Male to SMA Female Bulkhead Adapter		DWG NO FMAD1031		CAGE CODE 3FKR5	
CAD FILE	022715	SHEET	SCALE	N/A	SIZE A 150