

Hermetically Sealed SMA Female to SMA Female Bulkhead Adapter MIL-STD-202, Method 206 18GHz VSWR1.2, MIL-STD 348B

Hermetically sealed SMA female to SMA female bulkhead adapter part number FMAD1359 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA adapter has a female to female gender configuration. FMAD1359 SMA female to SMA female adapter is gold plated and operates to 18 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.2:1 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. The Fairview Microwave hermetic SMA to SMA 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		18	GHz
VSWR			1.2:1	
Insertion Loss			0.16	dB
Operating Voltage (AC)			500	Vrms
DWV (AC)			1,500	Vrms
Insulation Resistance	5,000			MOhms

Mechanical Specifications

Size	
Length	0.88 in [22.35 mm]
Width	0.44 in [11.18 mm]
Height	0.44 in [11.18 mm]
Weight	0.01 lbs [3.63 g]

Description	Connector 1	Connector 2
Type	SMA Female	SMA Female
Polarity	Standard	Standard
Connector Option	Hermetically Sealed	Hermetically Sealed
Mating Cycles, Min	100	100
Mating Torque	4 in-lbs min [0.45 Nm] min	4 in-lbs min [0.45 Nm] min
Contact Captivation Axial Force, Min	6.1 lbs [2.77 kg]	6.1 lbs [2.77 kg]
Coupling Proof Torque	5.3 in-lbs [0.6 Nm]	5.3 in-lbs [0.6 Nm]



Configuration:

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

Features:

- VSWR of 1.2:1 max up to 18 GHz
- Hermetically Sealed
- Gold 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	SMA Female	SMA Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold	Gold
Insulation Material	PTFE	PTFE
Outer Contact Material	Brass	Brass
Outer Contact Plating	Gold	Gold
Body Material	Brass	Brass
Body Plating	Gold	Gold

Environmental Specifications

Temperature

Operating Range

Humidity

Thermal Shock

Salt Spray

Hermetic Seal

-65 to +165 deg C

MIL-STD-202, Method 206

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B

1*10-6cc/sec helium at 1atm

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

Plotted and Other Data

Notes:

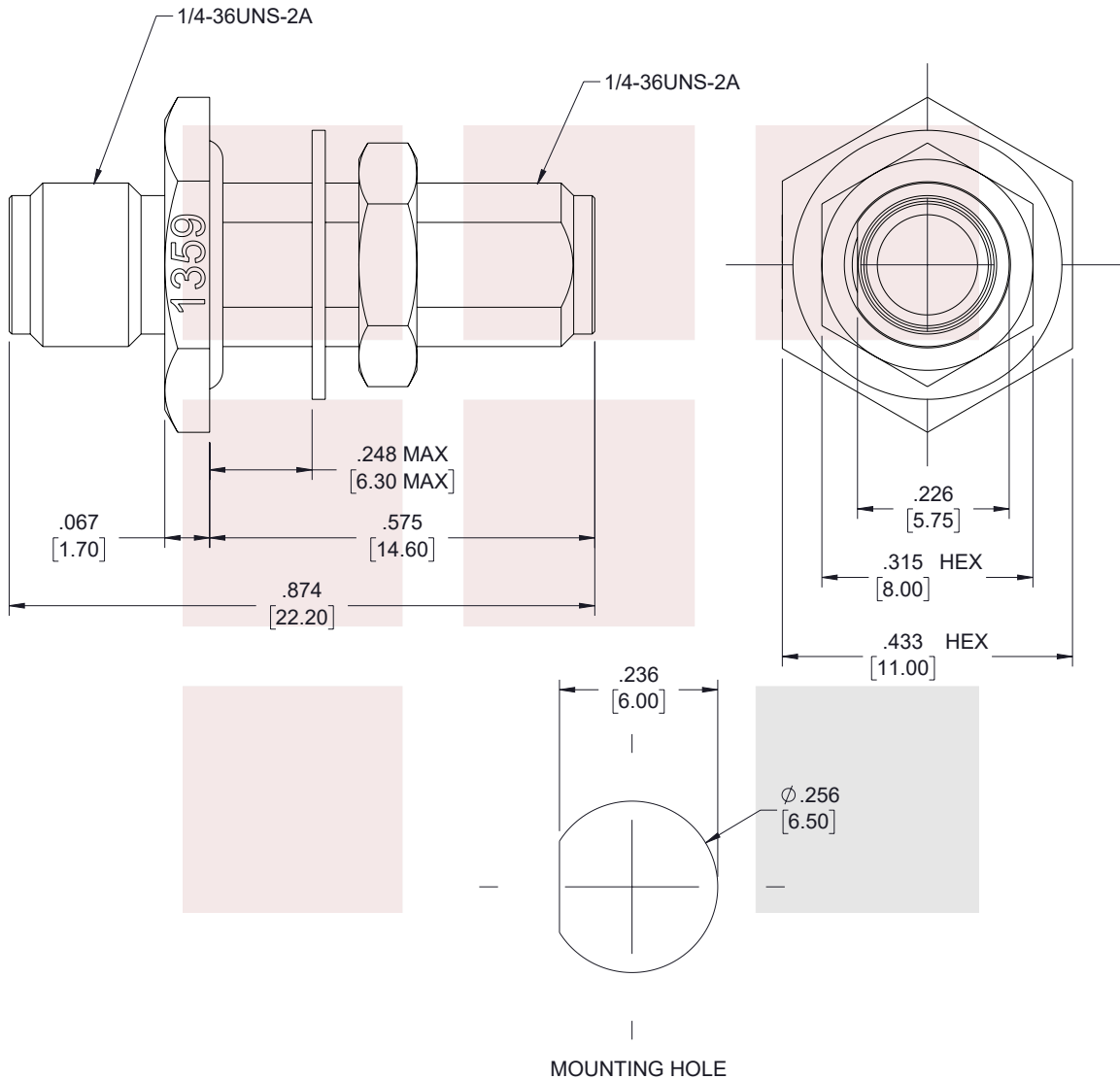
Hermetically Sealed SMA Female to SMA Female Bulkhead Adapter MIL-STD-202, Method 206 18GHz VSWR1.2, MIL-STD 348B from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Hermetically Sealed SMA Female to SMA Female Bulkhead Adapter MIL-STD-202, Method 206 18GHz VSWR1.2, MIL-STD 348B FMAD1359](#)

URL: <https://www.fairviewmicrowave.com/hermetically-sealed-sma-female-to-sma-female-bulkhead-adapter-mil-std-202-method-206-18ghz-vswr1.2-mil-std-348b-fmad1359-p.aspx>

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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	12/12/2022	AGANWANI



MOUNTING HOLE

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TITLE

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

.X = ± .2 [.51] FRACTIONS
.XX = ± .02 [.51] ± 1/32
.XXX = ± .005 [.13] ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305] = +1 [25] / -0
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

THIRD-ANGLE PROJECTION



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SHEET 1 OF 1

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.	REV
A	3FKR5	HBAKKE	FMAD1359	A

T-Rev.D