

High Temperature Adapter Bulkhead 3.5mm Female to 3.5mm Female, IP67 Rated 34.5GHz VSWR1.25, MIL-STD 348B with Stainless Steel Body

Bulkhead 3.5mm female to 3.5mm female adapter part number FMAD1686 from Fairview Microwave is in-stock and ships same day. This Fairview 3.5mm to 3.5mm adapter has a female to female gender configuration and is built of stainless steel in a high temperature adapter design. FMAD1686 3.5mm female to 3.5mm female adapter operates to 34.5 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.25:1 maximum. The 3.5mm connector mates mechanically with commercially available SMA and 2.92mm (K) connectors. Our RF 3.5mm bulkhead to 3.5mm 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		34.5	GHz
VSWR			1.25:1	
Insertion Loss			0.3	dB
Operating Voltage (AC)			335	Vrms
DWV (AC)			1,000	Vrms
Insulation Resistance	5,000			MOhms
RF Leakage			100	dB

Mechanical Specifications

Size	
Length	0.92 in [23.37 mm]
Width	0.50 in [12.70 mm]
Height	0.50 in [12.70 mm]
Weight	0.01 lbs [4.54 g]

Description	Connector 1	Connector 2
Type	3.5mm Female	3.5mm Female
Polarity	Standard	Standard
Mating Cycles, Min	500	500
Mating Torque	7.1 to 9.7 in-lbs [0.80 to 1.10 Nm]	7.1 to 9.7 in-lbs [0.80 to 1.10 Nm]
Contact Captivation Axial Force, Min	6.1 lbs [2.77 kg]	6.1 lbs [2.77 kg]
Coupling Proof Torque	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]



Configuration:

- 3.5mm Female Connector 1
- 3.5mm Female Connector 2
- 50 Ohm
- High Temperature Adapter Design
- Straight Body Geometry
- Bulkhead Mount Method

Features:

- VSWR of 1.25:1 max up to 34.5 GHz
- Rated IP67
- Gold over Nickel Plated Beryllium Copper Contact

Applications:

- General Purpose Test
- Rack Mounted Equipment

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Material Specifications

Description	Connector 1	Connector 2
Type	3.5mm Female	3.5mm Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold over Nickel	Gold over Nickel
Insulation Material	PEI	PEI
Body Material	Stainless Steel	Stainless Steel
Body Plating	Passivated	Passivated

Environmental Specifications
Temperature

Operating Range

Ingress Protection (IP) Rating

Humidity

Thermal Shock

Salt Spray

-50 to +170 deg C

IP67

MIL-STD-202, Method 206

MIL-STD-202, Method 107, Condition B

MIL-STD-202, Method 101, Condition B

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

Plotted and Other Data

Notes:

High Temperature Adapter Bulkhead 3.5mm Female to 3.5mm Female, IP67 Rated 34.5GHz VSWR1.25, MIL-STD 348B with Stainless Steel Body 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: [High Temperature Adapter Bulkhead 3.5mm Female to 3.5mm Female, IP67 Rated 34.5GHz VSWR1.25, MIL-STD 348B with Stainless Steel Body FMAD1686](#)

URL: <https://www.fairviewmicrowave.com/high-temperature-adapter-bulkhead-3.5mm-female-to-3.5mm-female-adapter-mil-std-202-method-206-34.5ghz-vswr1.25-mil-std-348b-with-stainless-steel-body-fmad1686-p.aspx>

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