

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

3.5mm male to 3.5mm male adapter part number FMAD1683 from Fairview Microwave is in-stock and ships same day. This Fairview 3.5mm to 3.5mm adapter has a male to male gender configuration and is built of stainless steel in a high temperature adapter design. FMAD1683 3.5mm male to 3.5mm male 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.

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

<b>Size</b>	
Length	1.35 in [34.29 mm]
Width	0.50 in [12.70 mm]
Height	0.50 in [12.70 mm]
Weight	0.04 lbs [18.14 g]

Description	Connector 1	Connector 2
Type	3.5mm Male	3.5mm Male
Polarity	Standard	Standard
Mating Cycles, Min	500	500
Hex Size	8 mm	8 mm
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 Male Connector 1
- 3.5mm Male 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
- 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 Male	3.5mm Male
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
Coupling Nut Material	Stainless Steel	Stainless Steel
Coupling Nut Plating	Passivated	Passivated

### Environmental Specifications

#### Temperature

Operating Range

Humidity

Thermal Shock

Salt Spray

-50 to +170 deg C

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 Male to 3.5mm Male, 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 Male to 3.5mm Male, 34.5GHz VSWR1.25, MIL-STD 348B with Stainless Steel Body FMAD1683](#)

URL: <https://www.fairviewmicrowave.com/high-temperature-adapter-bulkhead-3.5mm-male-to-3.5mm-male-adapter-mil-std-202-method-206-34.5ghz-vswr1.25-mil-std-348b-with-stainless-steel-body-fmad1683-p.aspx>

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