

3.5mm Male to 1.85mm Female Adapter

3.5mm male to 1.85mm female adapter part number SM3990 from Fairview Microwave is in-stock and ships same day. This Fairview 3.5mm to 1.85mm adapter has a male to female gender configuration. SM3990 3.5mm male to 1.85mm 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. The 1.85mm connector mates mechanically with commercially available 2.4mm 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	

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

Mechanical Specifications

Size	
Length	0.79 in [20.07 mm]
Weight	0.014 lbs [6.35 g]

Description	Connector 1	Connector 2
Type	3.5mm Male	1.85mm Female
Polarity	Standard	Standard
Mating Cycles	500	500
Mating Torque	8 to 10 in-lbs [0.90 to 1.13 Nm]	



Configuration:

- 3.5mm Male Connector 1
- 1.85mm Female Connector 2
- 50 Ohm
- Straight Body Geometry

Features:

- VSWR of 1.25:1 max up to 34.5 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

Applications:

- Enables Between Series Connections
- General Purpose Test

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Material Specifications

Description	Connector 1	Connector 2
Type	3.5mm Male	1.85mm 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	Oxide-Noryl	Oxide-Noryl
Outer Contact Material		Passivated Stainless Steel
Outer Conductor Contact Spec.		ASTM A380
Body Material	Passivated Stainless Steel	
Body Plating Spec.	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, Condition D (20 G's)

Salt Spray

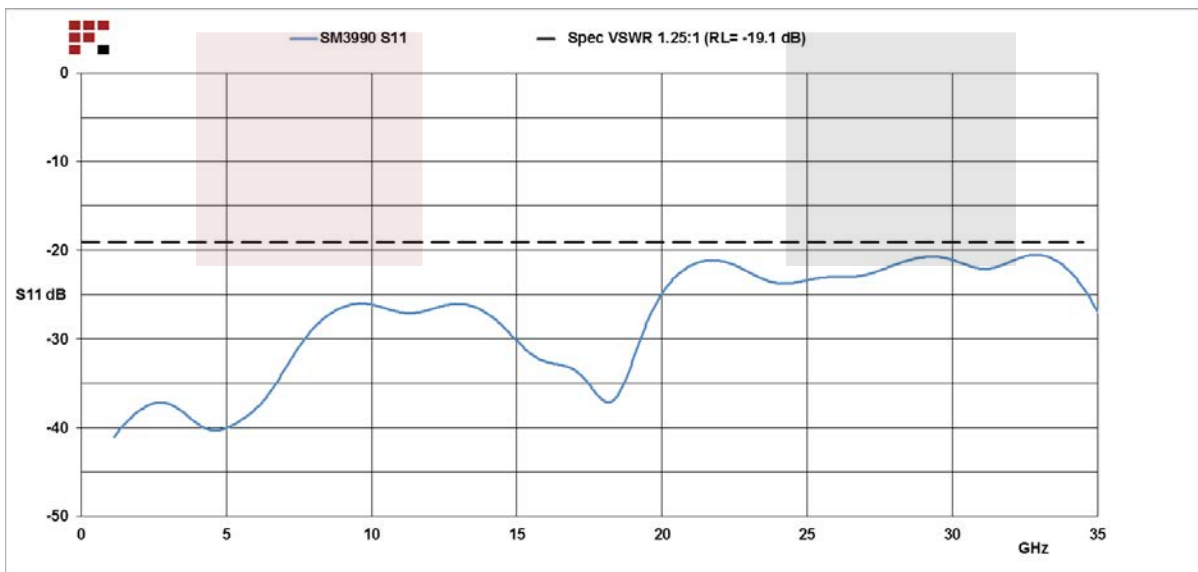
MIL-STD-202, Method 101, Condition B, 5% salt solution

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

Plotted and Other Data

Notes:

Typical Performance Data



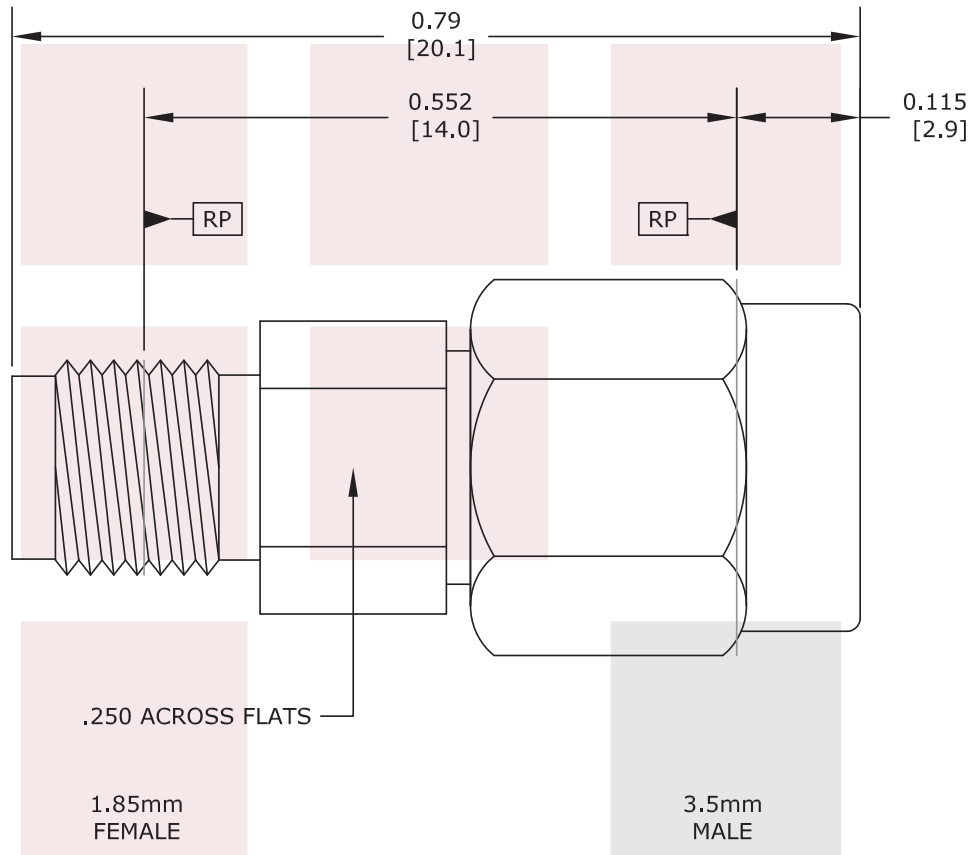
3.5mm Male to 1.85mm Female Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [3.5mm Male to 1.85mm Female Adapter SM3990](#)

URL: <https://www.fairviewmicrowave.com/3.5mm-male-1.85mm-female-adapter-sm3990-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.





STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		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 3.5mm Male to 1.85mm Female Adapter		DWG NO SM3990		CAGE CODE 3FKR5	
CAD FILE	051217	SHEET	SCALE	N/A	SIZE A 2233