

## Precision SMA Female to SMA Female Adapter

Precision SMA female to SMA female adapter part number SM4953 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA adapter has a female to female gender configuration in a precision design. SM4953 SMA female to SMA female adapter operates to 27 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.15:1 maximum. The SMA connector mates mechanically with commercially available 3.5mm 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		27	GHz
VSWR			1.15:1	

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 18	18 to 27				GHz
VSWR, Max	1.1:1	1.15:1				

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

### Mechanical Specifications

<b>Size</b>	
Length	0.59 in [14.99 mm]
Weight	0.0085 lbs [3.86 g]

Description	Connector 1	Connector 2
Type	SMA Female	SMA Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Contact Captivation Method	Epoxy	Epoxy
Mating Cycles	500	500



### Configuration:

- SMA Female Connector 1
- SMA Female Connector 2
- 50 Ohm
- Precision Design
- Straight Body Geometry

### Features:

- VSWR of 1.15:1 max up to 27 GHz
- SMA interface meets MIL-STD-348
- Epoxy captivation
- Contact plating according to MIL-G-45204
- Gold Plated Contact

### Applications:

- General Purpose Test
- Precision Test & Measurement

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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
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Insulation Material	PTFE	PTFE
Outer Contact Material	Passivated Stainless Steel	Passivated Stainless Steel

**Environmental Specifications**

**Temperature**

Operating Range

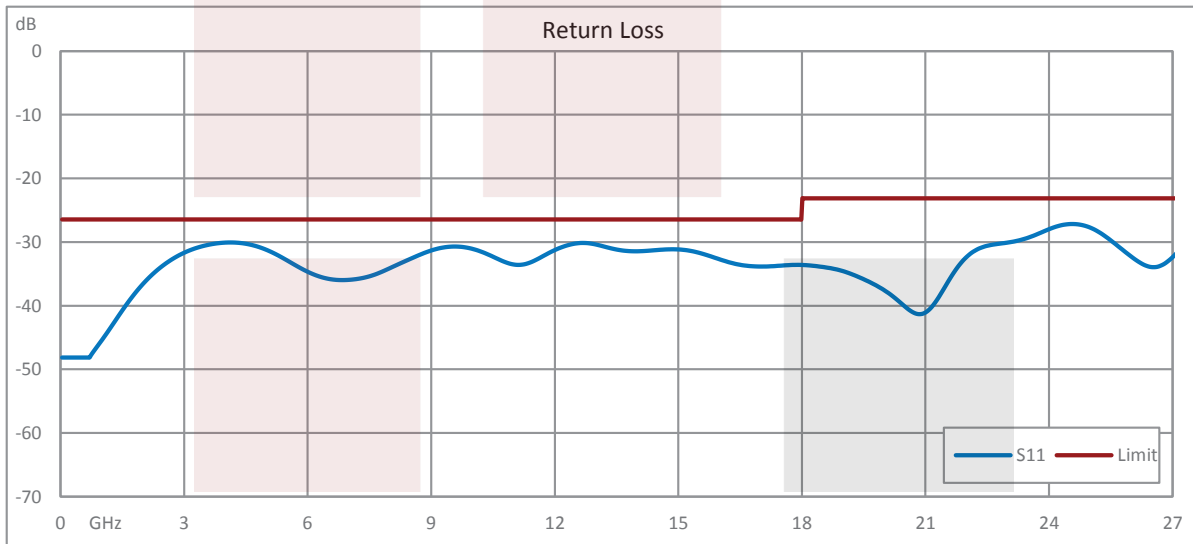
-65 to +165 deg C

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**



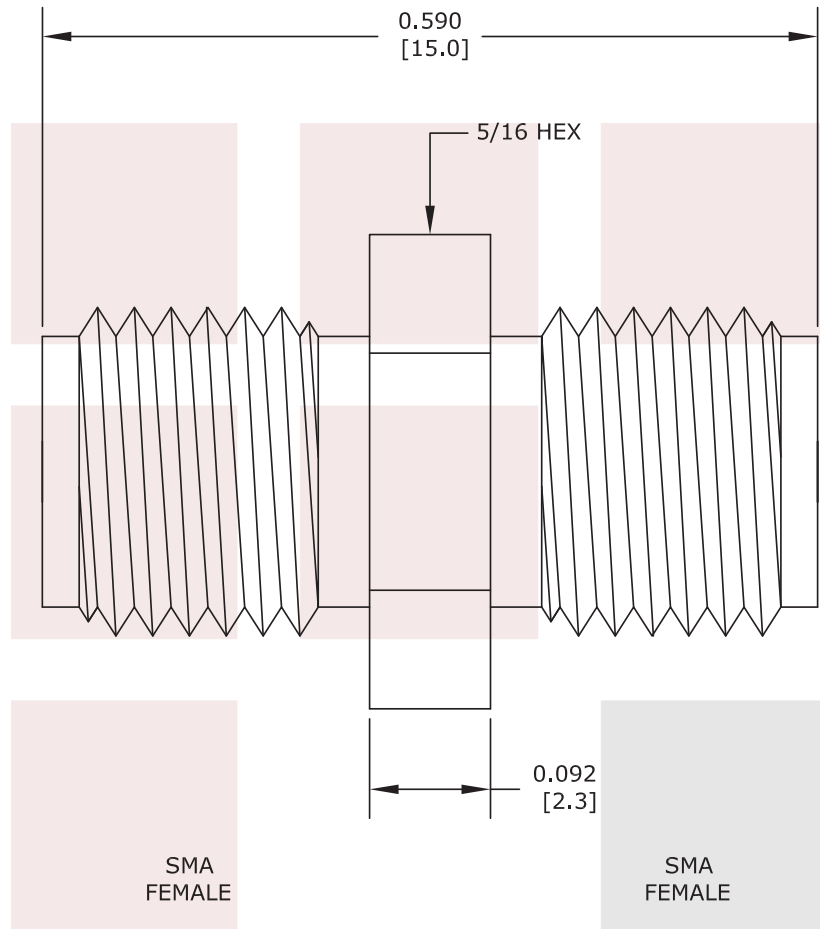
Precision SMA Female to SMA Female Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Precision SMA Female to SMA Female Adapter SM4953](#)

URL: <https://www.fairviewmicrowave.com/sma-female-sma-female-adapter-sm4953-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

<b>FAIRVIEW MICROWAVE INC.</b> 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 Precision SMA Female to SMA Female Adapter		DWG NO SM4953		CAGE CODE 3FKR5	
CAD FILE	101216	SHEET	SCALE	N/A	SIZE A 41742