

## Radius RA SMA Male to SMA Female Adapter

Radius RA SMA male to SMA female adapter part number SM5289 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA adapter has a male to female gender configuration. SM5289 SMA male to SMA female adapter operates to 18 GHz. The Fairview Microwave RF adapter provides excellent VSWR of 1.25:1 maximum. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. This radius right angle SMA adapter allows for easier connections in tight spaces.

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			1.25:1	
Operating Voltage (AC)			335	Vrms
DWV (AC)			1,000	Vrms
High Potential Voltage (at 5 MHz)			670	Vrms
Corona Discharge (at 70,000 ft)			250	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	10,000			MOhms
RF Leakage			-72	dB

Electrical Specification Notes:  
Values at 25°C, sea level.  
RF leakage = -(90 - fGHz) dB max.

### Mechanical Specifications

<b>Size</b>	
Length	0.55 in [13.97 mm]
Width	0.46 in [11.68 mm]
Height	0.315 in [8 mm]
Weight	0.0105 lbs [4.76 g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Mating Cycles	500	500
Hex Size	5/16 inch	



### Configuration:

- SMA Male Connector 1
- SMA Female Connector 2
- 50 Ohm
- Radius Right Angle Body Geometry

### Features:

- VSWR of 1.25:1 max up to 18 GHz
- SMA interface meets MIL-STD-348
- Contact plating according to ASTM B-488
- Gold Plated Contact

### Applications:

- General Purpose Test

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### Material Specifications

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Contact Material	Beryllium Copper	Beryllium Copper
Contact Plating	Gold	Gold
Contact Plating Spec.	ASTM B-488	ASTM B-488
Insulation Material	PTFE	PTFE
Outer Contact Material		Passivated Stainless Steel
Outer Conductor Contact Spec.		ASTM A-967
Body Material	Passivated Stainless Steel	
Body Plating Spec.	ASTM A-967	
Coupling Nut Material	Passivated Stainless Steel	
Coupling Nut Plating Spec.	ASTM A-967	

### Environmental Specifications

#### Temperature

Operating Range

-65 to +165 deg C

Humidity

MIL-STD-202, Method 106

Shock

MIL-STD-202, Method 213, Test Condition I

Vibration

MIL-STD-202, Method 204, Test Condition D

Salt Spray

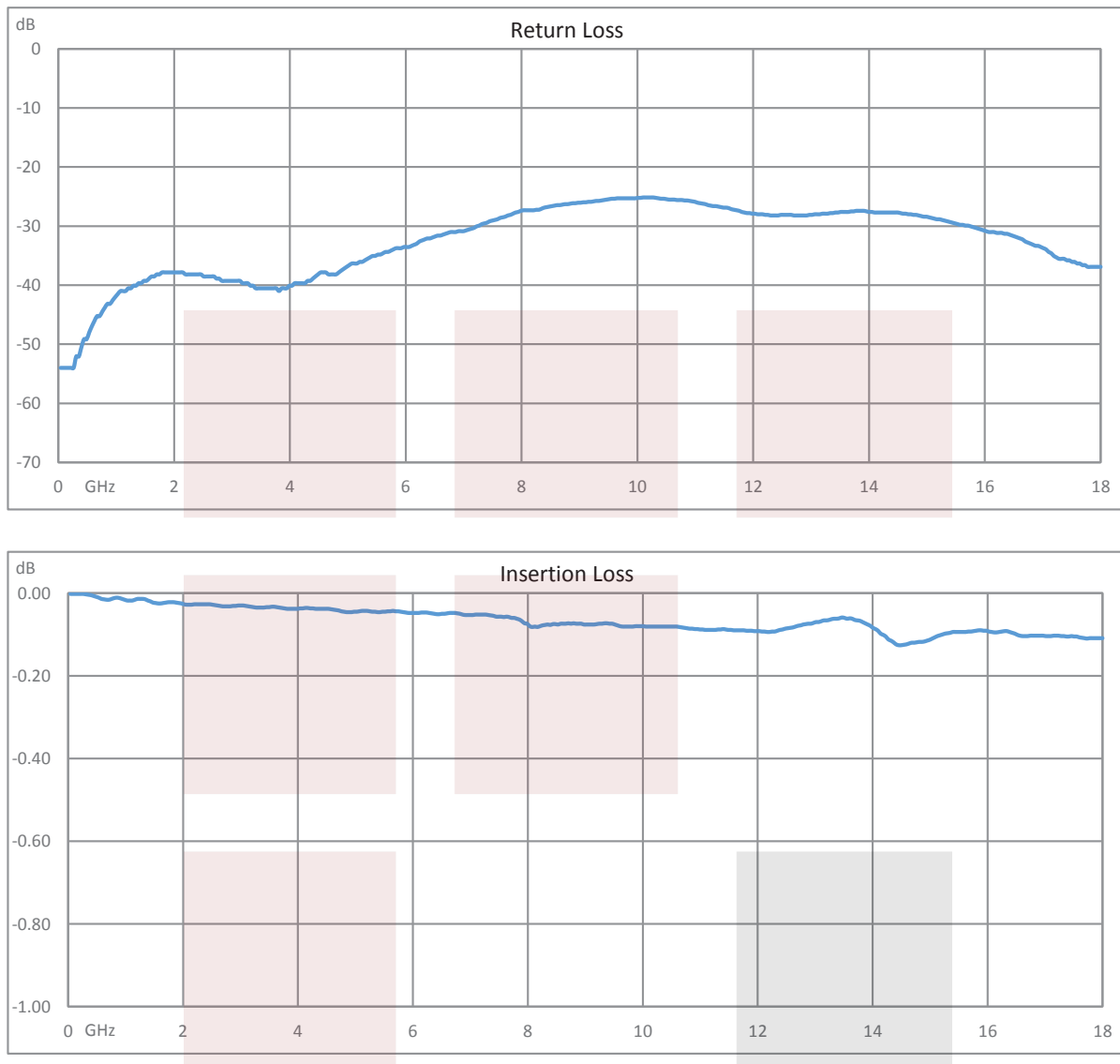
MIL-STD-202, Method 101, Condition B

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

### Plotted and Other Data

Notes:

### Typical Performance Data

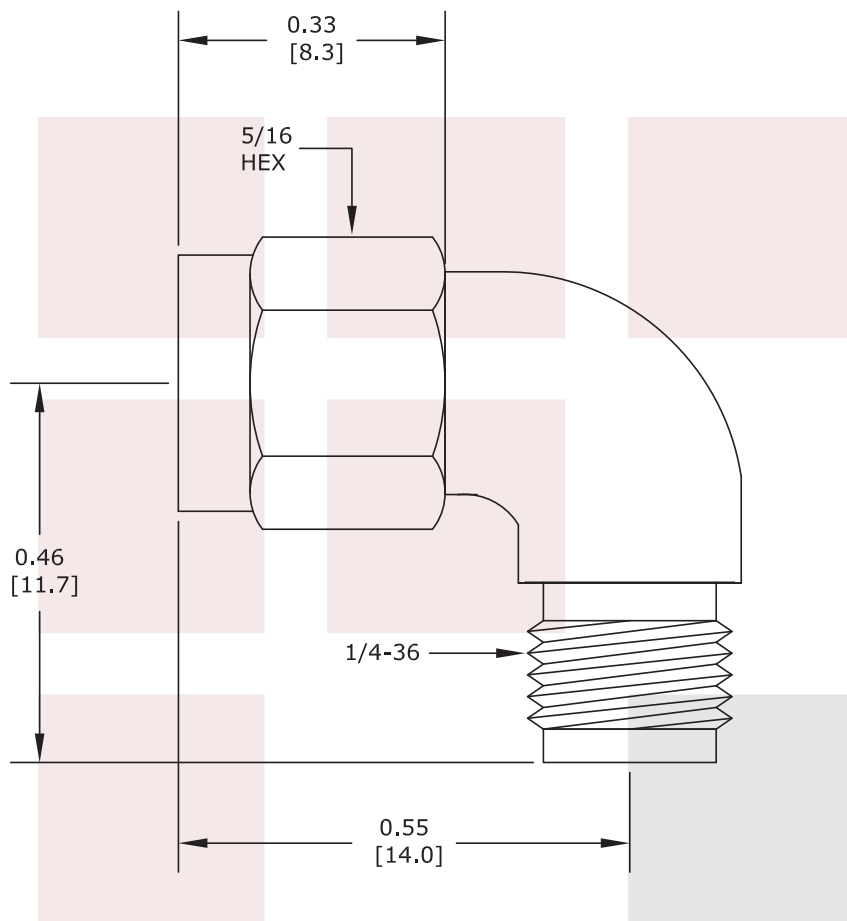


Radius RA SMA Male to SMA Female Adapter from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [Radius RA SMA Male to SMA Female Adapter SM5289](https://www.fairviewmicrowave.com/radius-ra-sma-male-sma-female-adapter-sm5289-p.aspx)

URL: <https://www.fairviewmicrowave.com/radius-ra-sma-male-sma-female-adapter-sm5289-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.



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TITLE Radius RA SMA Male to SMA Female Adapter	DWG NO SM5289		CAGE CODE 3FKR5		
	CAD FILE 102715	SHEET	SCALE N/A	SIZE A	150