

**Radius RA SMA Male to SMA Female Adapter MIL-STD-202, Method 106 Gold Plated with Passivated Stainless Steel Body**

Radius RA SMA male to SMA female adapter part number SM5292 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA adapter has a male to female gender configuration and is built of durable stainless steel. SM5292 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	
Insertion Loss			0.2	dB
Operating Voltage (AC)			335	Vrms
DWV (AC)			1,000	Vrms
High Potential Voltage (@ 5 MHz)			670	Vrms
Corona Discharge (@70,000ft)			250	Vrms
Inner Conductor DC Resistance			3	mOhms
Outer Conductor DC Resistance			2	mOhms
Insulation Resistance	10,000			MOhms
RF Leakage			72	dB

**Mechanical Specifications**

<b>Size</b>	
Length	0.55 in [13.97 mm]
Width	0.312 in [7.92 mm]
Height	0.312 in [7.92 mm]
Weight	0.0125 lbs [5.67 g]

Description	Connector 1	Connector 2
Type	SMA Male	SMA Female
Polarity	Standard	Standard
Interface Specification	MIL-STD-348	MIL-STD-348
Contact Captivation Method	Epoxy	
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
- Epoxy captivation
- Contact plating according to ASTM B-488
- Gold Plated Beryllium Copper Contact
- Max VSWR of 1.25:1 up to 18 GHz
- SMA Interface compliant with MIL-STD-348
- Gold Plated Beryllium Copper Contact
- Contact Plating per ASTM B-488
- Epoxy captivation

**Applications:**

- General Purpose Test
- General Purpose Test

Fairview Microwave  
301 Leora Ln., Suite 100  
Lewisville, TX 75056  
Tel: 1-800-715-4396 / (972) 649-6678  
Fax: (972) 649-6689  
www.fairviewmicrowave.com  
sales@fairviewmicrowave.com

Mating Torque	7 to 10 in-lbs [0.79 to 1.13 Nm]	
Coupling Proof Torque, Min	15 in-lbs [1.7 Nm]	15 in-lbs [1.7 Nm]
Coupling Retention, Min	60 lbs [27.22 Kg]	60 lbs [27.22 Kg]

**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
Permeability, Max	2	2
Outer Contact Material		Passivated Stainless Steel
Outer Conductor Contact Spec.		ASTM A-967
Body Material	Passivated Stainless Steel	Passivated Stainless Steel
Body Plating Spec.	ASTM A-967	ASTM A-967
Gasket Material	Silicone Rubber	Silicone Rubber
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 Cond. I
Vibration	MIL-STD-202, Method 204, Test Cond. D
Salt Spray	MIL-STD-202, Method 101, Cond. B, 5% salt solution

Environmental Specification Notes:

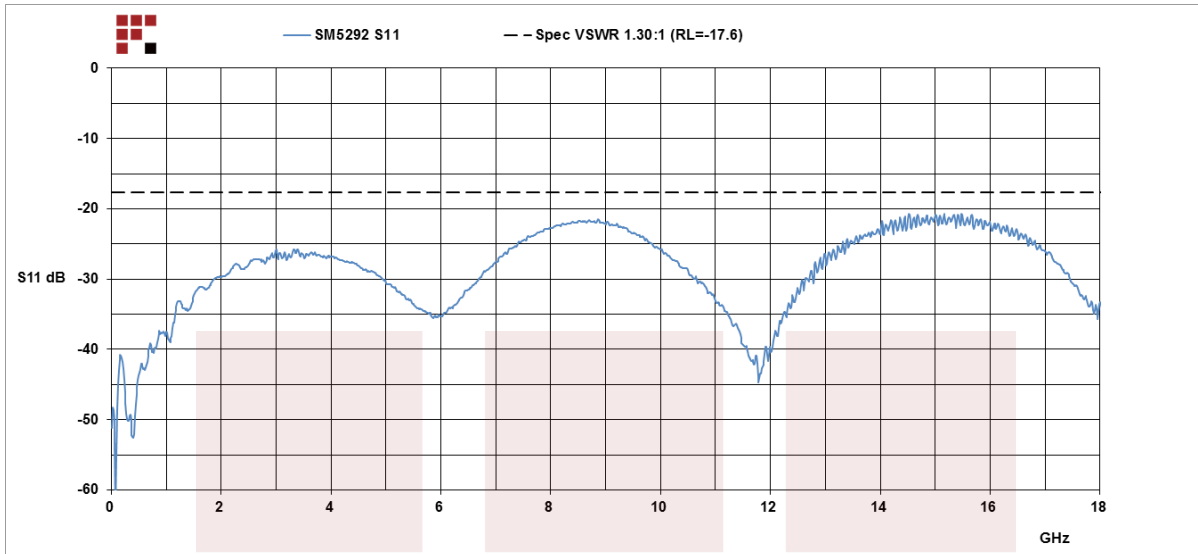
\*Insulation resistance at least 200 Mohms within 5 minutes after removal from humidity

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

**Plotted and Other Data**

Notes:

**Typical Performance Data**

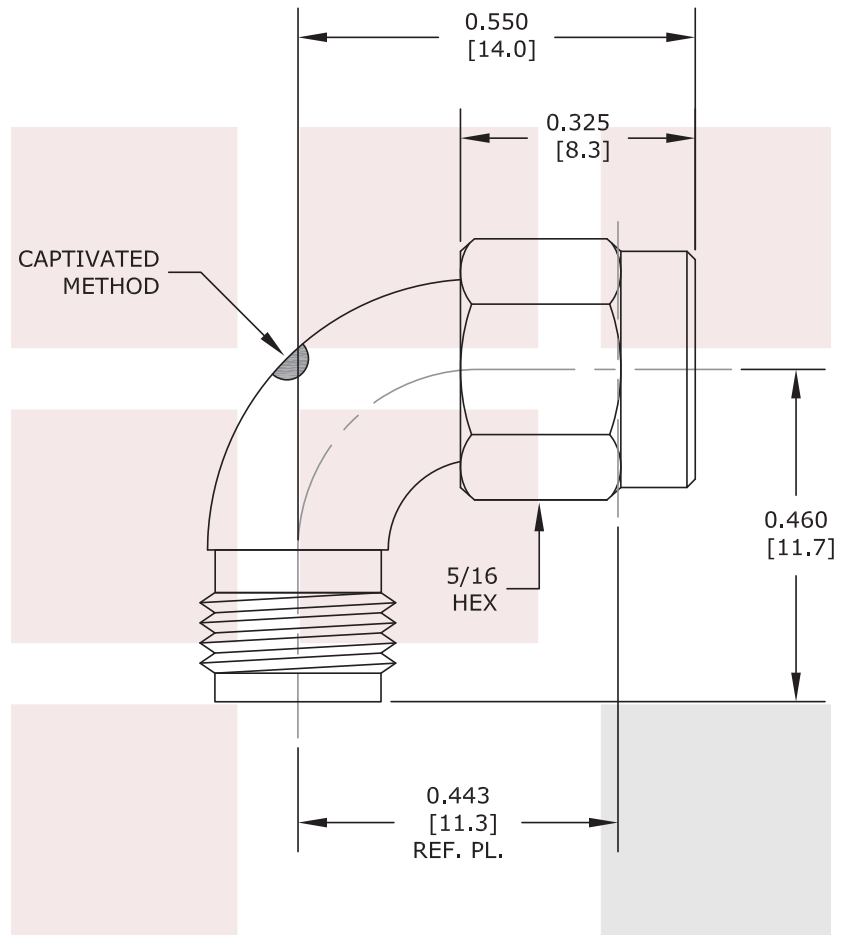


Radius RA SMA Male to SMA Female Adapter MIL-STD-202, Method 106 Gold Plated with Passivated Stainless Steel Body from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. 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 MIL-STD-202, Method 106 Gold Plated with Passivated Stainless Steel Body SM5292](https://www.fairviewmicrowave.com/radius-ra-sma-male-sma-female-adapter-sm5292-p.aspx)

URL: <https://www.fairviewmicrowave.com/radius-ra-sma-male-sma-female-adapter-sm5292-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.



<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 Radius RA SMA Male to SMA Female Adapter MIL-STD-202, Method 106 Gold Plated with Passivated Stainless Steel Body		DWG NO SM5292		CAGE CODE 3FKR5	
CAD FILE	022014	SHEET	SCALE	N/A	SIZE A 2233