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Fairview Microwave
RF COMPONENTS ON DEMAND. Done!

SM5246
DATA SHEET

45 Degree SMA Male to SMA Female Adapter

45 degree SMA male to SMA female adapter part number SM5246 from Fairview Microwave is in-stock and ships same day. This Fairview SMA to SMA adapter has a male to female gender configuration. SM5246 SMA male to SMA female adapter operates to 27 GHz. The SMA connector mates mechanically with commercially available 3.5mm and 2.92mm (K) connectors. This low profile 45 degree right SMA adapter allows for easier connections in tight spaces. The Fairview Microwave RF adapter provides good VSWR of 1.3:1 maximum.

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 connnector 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			1.3:1	

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

Mechanical Specifications

Size

Length	0.45 in [11.43 mm]
Width	0.52 in [13.21 mm]
Weight	0.019 lbs [8.62 g]

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



Configuration:

- SMA Male Connector 1
- SMA Female Connector 2
- 50 Ohms
- 45 Degree Right Body Geometry

Features:

- VSWR of 1.3:1 max up to 27 GHz
- Contact plating according to MIL-G-45204
- Gold over Nickel Plated Beryllium Copper Contact

Applications:

- General Purpose Test

Fairview Microwave
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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 over Nickel	Gold over Nickel
Contact Plating Spec.	MIL-G-45204	MIL-G-45204
Insulation Material	PTFE	PTFE
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

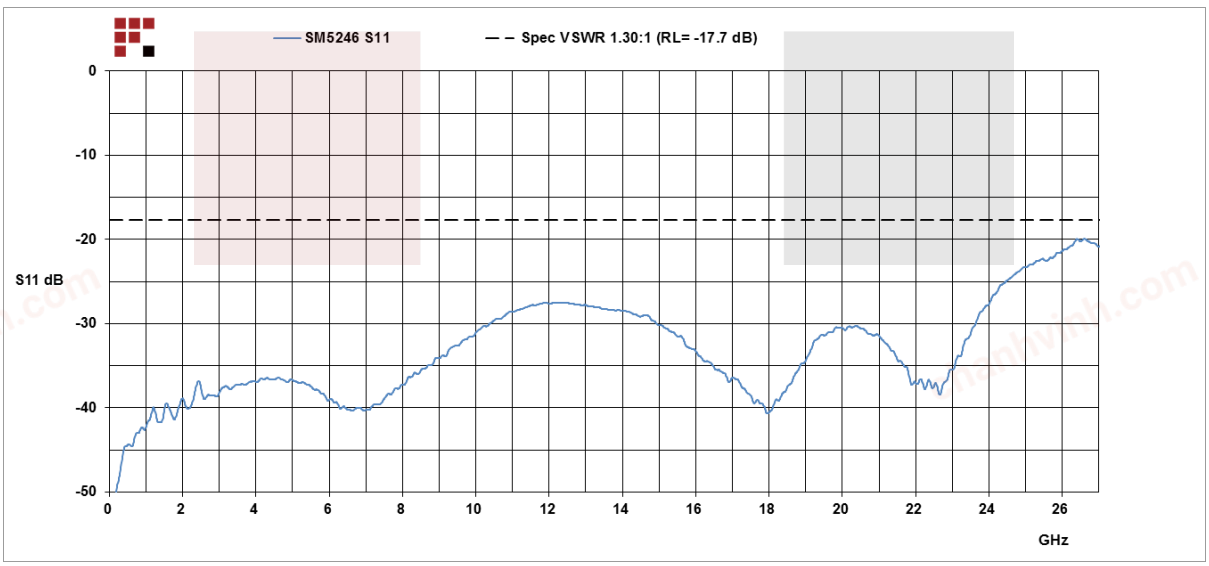
Operating Range	-55 to +100 deg C
Vibration	MIL-STD 202, Method 204, Condition D (20 G's)
Salt Spray	MIL-STD 202, Method 101, Condition B, 5% salt solution

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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45 Degree 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: 45 Degree SMA Male to SMA Female Adapter SM5246

URL: https://www.fairviewmicrowave.com/45-degree-sma-male-sma-female-adapter-sm5246-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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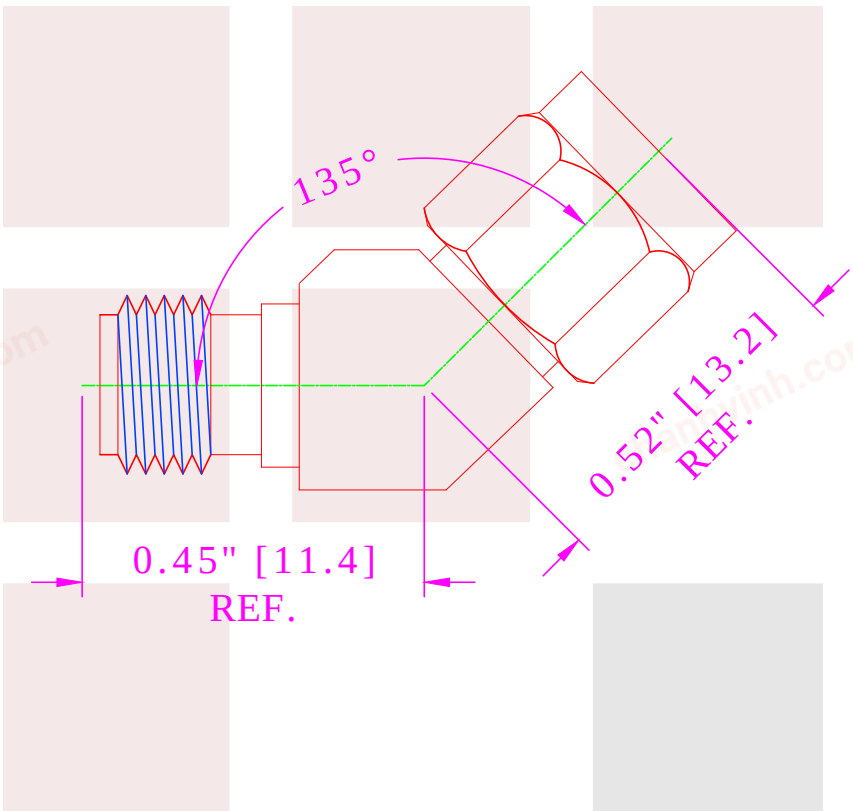

FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM	NOTES: 1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL. 2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME. 3. DIMENSIONS ARE IN INCHES [mm].
TITLE 45 Degree SMA Male to SMA Female Adapter	DWG NO SM5246 / CAGE CODE 3FKR5
CAD FILE 021715 / SHEET / SCALE N/A / SIZE A / 5568	

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