

**WR-51 to SMA Female Waveguide to Coax Adapter
 UBR180 Flange With 15 GHz to 22 GHz Frequency
 Range For Ku-K Band**

The SMW51AC is a waveguide to coaxial adapter with a frequency range of 15 to 22 GHz, operating in the Ku-K band. This adapter offers a precision tolerance UBR180 flange and a WR-51 waveguide interface size. SMW51AC is constructed of copper to ensure durability and repeatable RF performance. The SMA female connector mates with commercially available 2.92mm and 3.5mm connectors. The package is REACH and RoHS compliant.

Configuration

Waveguide Size	WR-51
Flange	UBR180
RF Connector	SMA Female
Body Geometry	Right Angle

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	15		22	GHz
VSWR			1.25:1	
Insertion Loss		0.4		dB

Mechanical Specifications

Size

Length	1.06 in [26.92 mm]
Width	1.19 in [30.23 mm]
Height	1.19 in [30.23 mm]
Weight	0.11288 lbs [51.2 g]

RF Connector

Connector Type	SMA Female
Specification	30μ in. min.
Contact Material and Plating	Beryllium Copper, Gold
Body Material and Plating	Passivated Stainless Steel
Torque	8 in-lbs [0.9 Nm]

Waveguide Interface

Waveguide Type	WR-51
Flange Type	UBR180
Body Material and Plating	Copper

Environmental Specifications

Temperature

Operating Range	-55 to +120 deg C
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

- Values at +25 °C, sea level unless stated otherwise

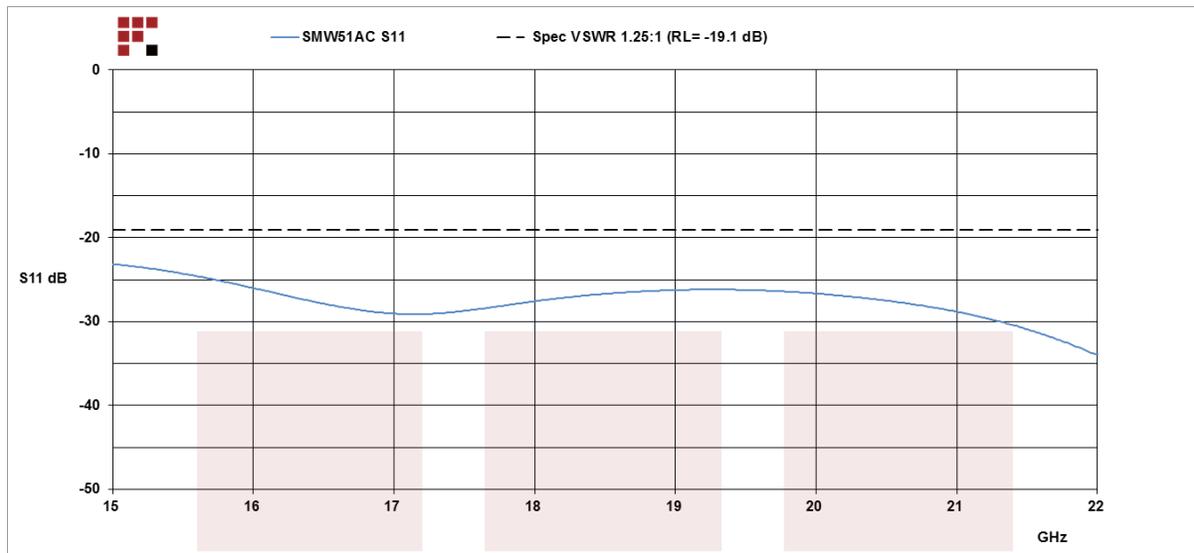


Features:

- Ku-K Band, 15 to 22 GHz Frequency Range
- WR-51 Waveguide Interface with UBR180 Flange
- SMA Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

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Typical Performance Data

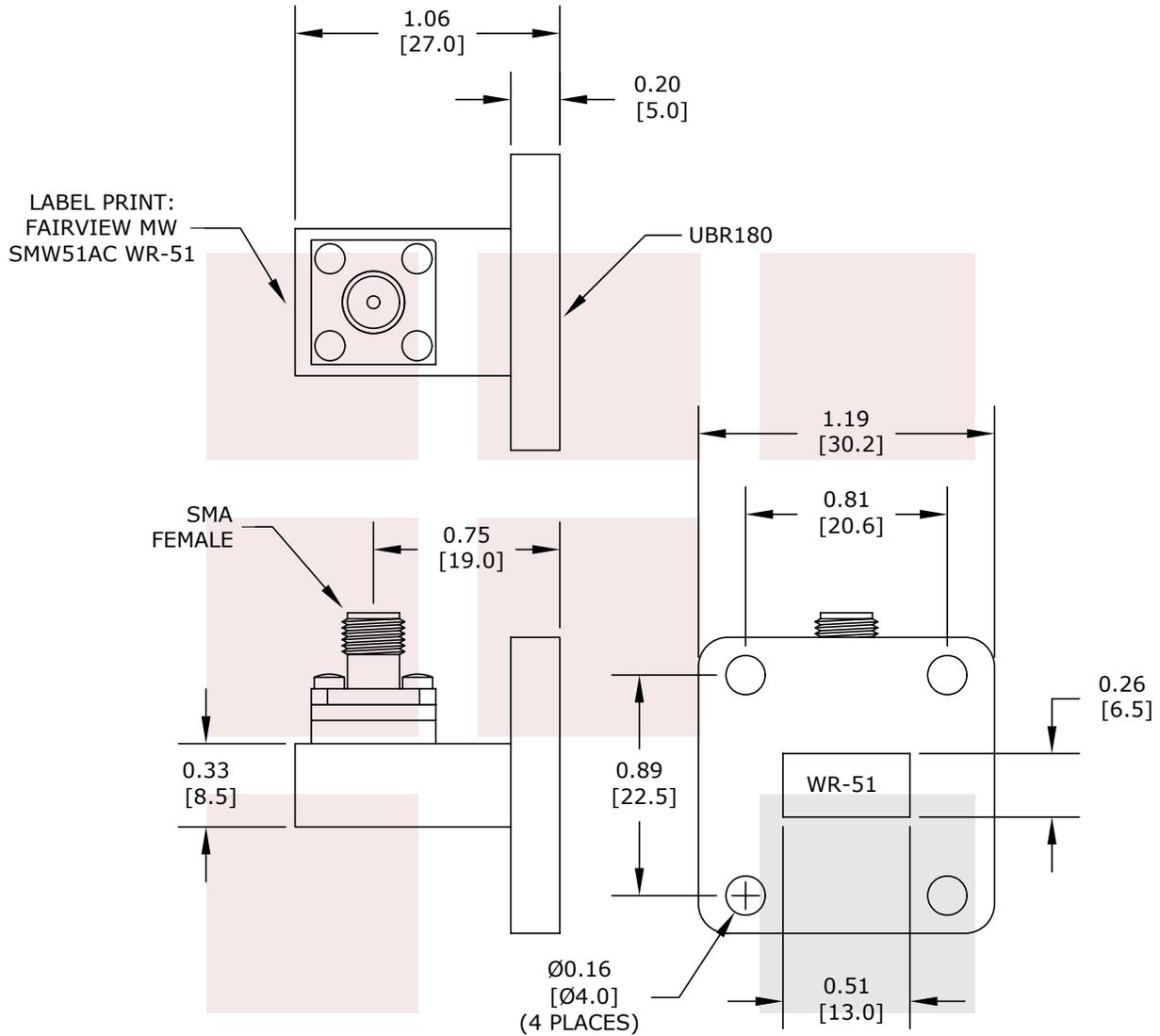


WR-51 to SMA Female Waveguide to Coax Adapter UBR180 Flange With 15 GHz to 22 GHz Frequency Range For Ku-K Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-51 to SMA Female Waveguide to Coax Adapter UBR180 Flange With 15 GHz to 22 GHz Frequency Range For Ku-K Band SMW51AC](https://www.fairviewmicrowave.com/wr-51-sma-female-connector-waveguide-coax-adapter-15-22-ghz-smw51ac-p.aspx)

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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 WR-51 to SMA Female Waveguide to Coax Adapter UBR180 Flange With 15 GHz to 22 GHz Frequency Range For Ku-K Band		DWG NO SMW51AC		CAGE CODE 3FKR5	
CAD FILE	071916	SHEET	SCALE	N/A	SIZE A 3045