

**WR-112 to SMA Female Waveguide to Coax Adapter
 UBR84 Flange With 7.05 GHz to 10 GHz Frequency
 Range For X Band**

The SMW112AC is a waveguide to coaxial adapter with a frequency range of 7.05 to 10 GHz, operating in the X band. This adapter offers a precision tolerance UBR84 flange and a WR-112 waveguide interface size. SMW112AC is constructed of aluminum 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-112
Flange	UBR84
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	7.05		10	GHz
VSWR			1.35:1	
Insertion Loss		0.25		dB
Input Power (CW)			50	Watts
Input Power (Peak)			3	KWatts

Mechanical Specifications

Size

Length	1.57 in [39.88 mm]
Width	1.88 in [47.75 mm]
Height	1.88 in [47.75 mm]
Weight	0.10935 lbs [49.6 g]

RF Connector

Connector Type	SMA Female
Contact Material and Plating	Beryllium Copper, Gold
Body Material and Plating	Passivated Stainless Steel

Waveguide Interface

Waveguide Type	WR-112
Flange Type	UBR84
Body Material and Plating	Aluminum

Environmental Specifications

Temperature

Operating Range	-55 to +120 deg C
-----------------	-------------------

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

Plotted and Other Data

Notes:

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

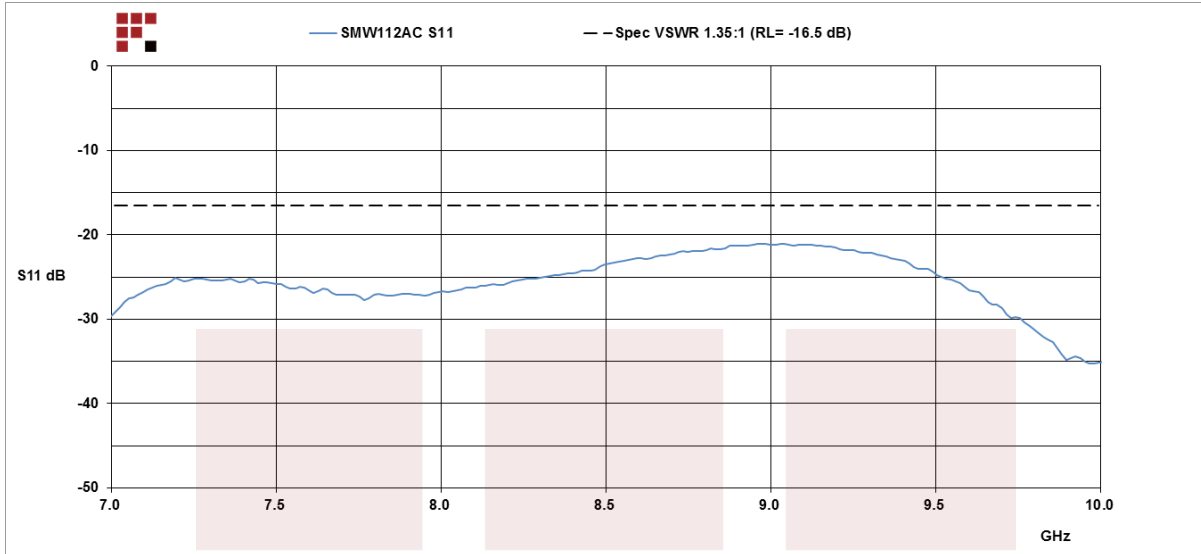


Features:

- X Band, 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface with UBR84 Flange
- SMA Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Fairview Microwave
 1130 Junction Dr. #100
 Allen, TX 75013
 Tel: 1-800-715-4396 / (972) 649-6678
 Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data

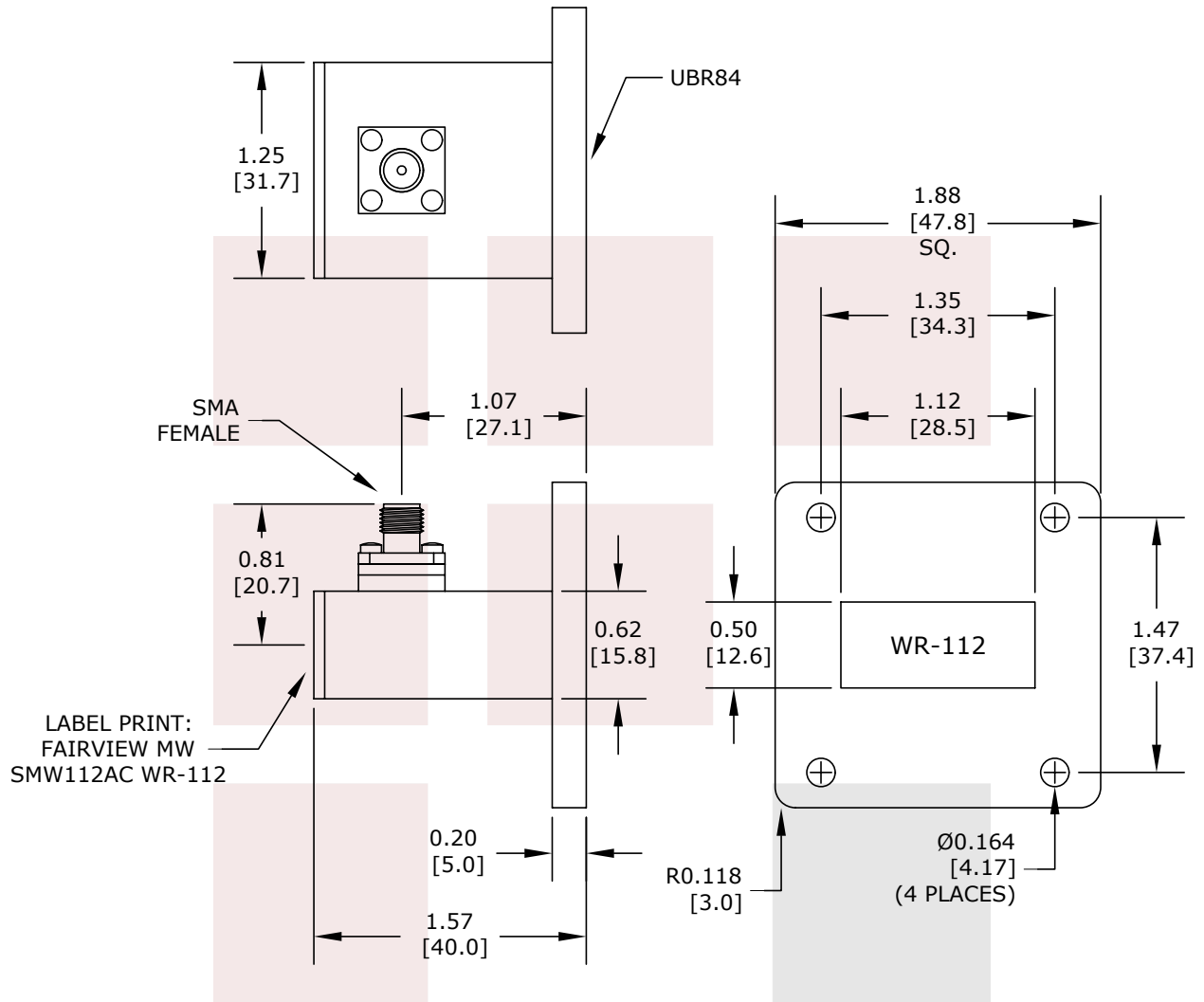


WR-112 to SMA Female Waveguide to Coax Adapter UBR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-112 to SMA Female Waveguide to Coax Adapter UBR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band SMW112AC](#)

URL: <https://www.fairviewmicrowave.com/wr-112-sma-female-connector-waveguide-coax-adapter-7.05-10-ghz-smw112ac-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

FAIRVIEW MICROWAVE INC.		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].			
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		DWG NO		CAGE CODE	
TITLE WR-112 to SMA Female Waveguide to Coax Adapter UBR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band		SMW112AC		3FKR5	
		CAD FILE	071516	SHEET	SCALE N/A