

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

The SMW112ACN 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. SMW112ACN is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connector offered by this adapter uses an N female connector and the package is REACH and RoHS compliant.

**Configuration**

Waveguide Size	WR-112
Flange	UBR84
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

**Electrical Specifications**

Description	Min	Typ	Max	Units
Frequency Range	7.05		10	GHz
VSWR			1.25:1	
Insertion Loss		0.25		dB
Input Power (CW)			150	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	0.13492 lbs [61.2 g]

**RF Connector**

Connector Type	N Female
Contact Material and Plating	Beryllium Copper, Gold
Body Material and Plating	Brass, Nickel

**Waveguide Interface**

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

**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

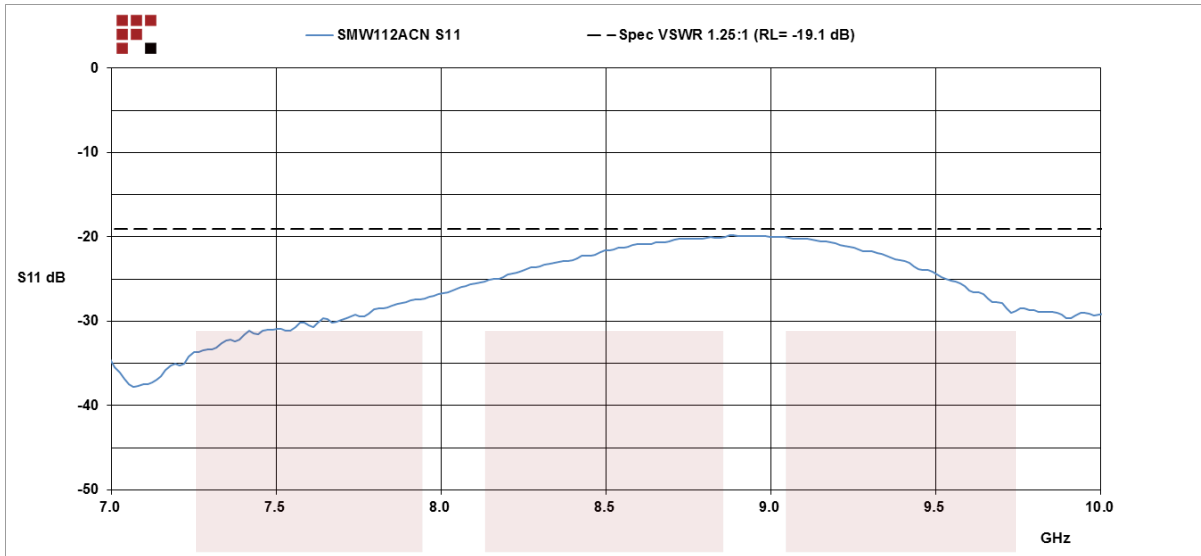


**Features:**

- X Band, 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface with UBR84 Flange
- N 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**

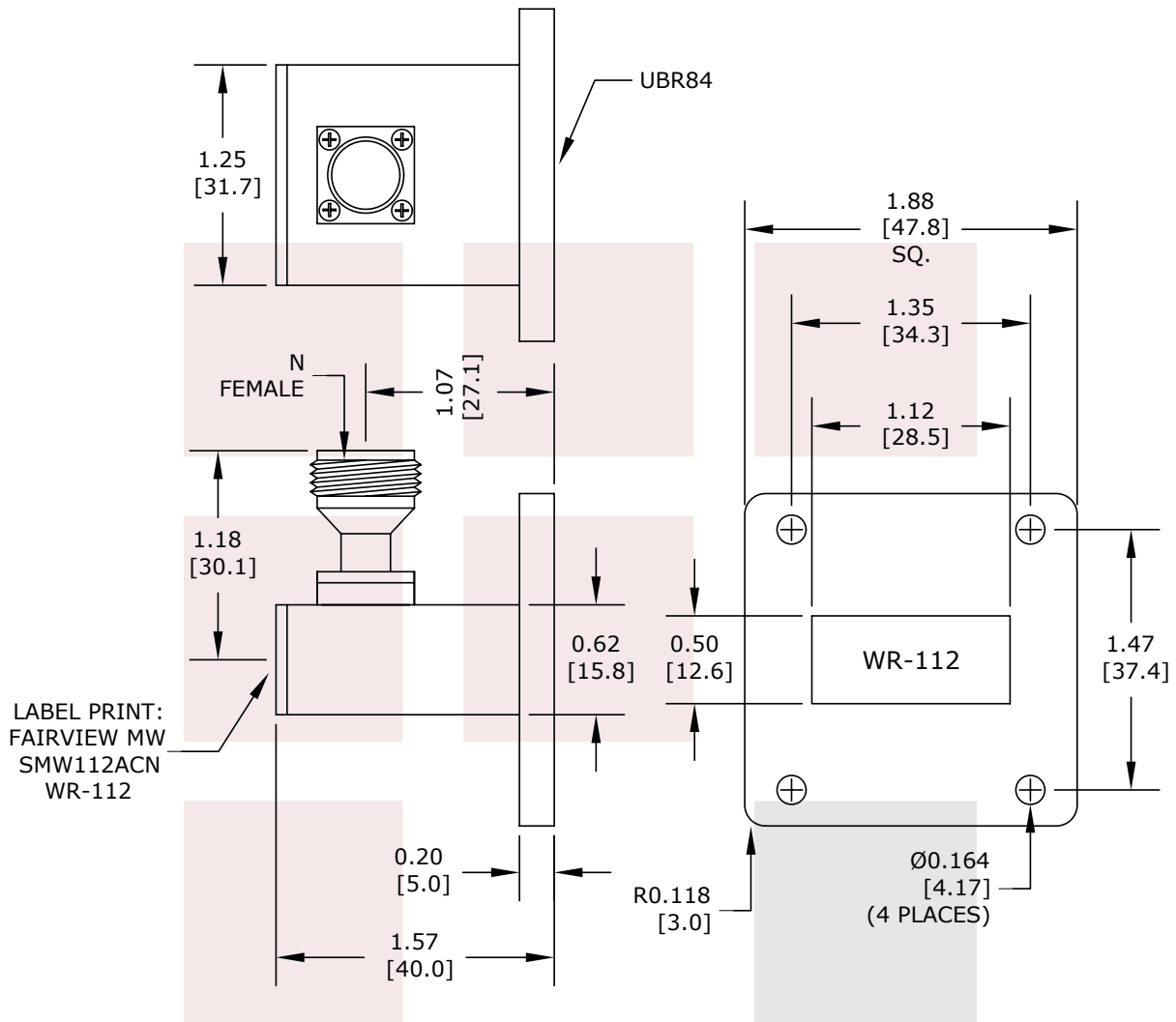


WR-112 to N Female Waveguide to Coax Adapter UBR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview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

For additional information on this product, please click the following link: [WR-112 to N Female Waveguide to Coax Adapter UBR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band SMW112ACN](https://www.fairviewmicrowave.com/wr-112-n-female-connector-waveguide-coax-adapter-7.05-10-ghz-smw112acn-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-112-n-female-connector-waveguide-coax-adapter-7.05-10-ghz-smw112acn-p.aspx>

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STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

<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 WR-112 to N Female Waveguide to Coax Adapter UBR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band		DWG NO <b>SMW112ACN</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	071516	SHEET	SCALE	N/A	SIZE A 3045