

WR-112 to N Female Waveguide to Coax Adapter PDR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band

The SMW112ACNG 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 PDR84 flange and a WR-112 waveguide interface size. SMW112ACNG 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 PDR84
RF Connector N Female
Impedance 50 Ohms
Body Geometry Right Angle

Electrical Specifications

Description	Min	Тур	Max	Units
Frequency Range	7.05		10	GHz
VSWR			1.35:1	
Insertion Loss		0.25		dB
Input Power (CW)			150	Watts
Input Power (Peak)			3	KWatts

Mechanical Specifications

 Width
 2.5 in [63.5 mm]

 Height
 1.75 in [44.45 mm]

 Weight
 0.15609 lbs [70.8 g]

RF Connector

Connector Type N Female

Contact Material and Plating Beryllium Copper, Gold

Body Material and Plating Brass, Nickel Torque 7 in-lbs [0.79 Nm]

Waveguide Interface

Waveguide Type WR-112
Flange Type PDR84
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

SMW112ACNG DATA SHEET



Features:

- X Band, 7.05 to 10 GHz Frequency Range
- WR-112 Waveguide Interface with PDR84 Flange
- N Female Coaxial Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

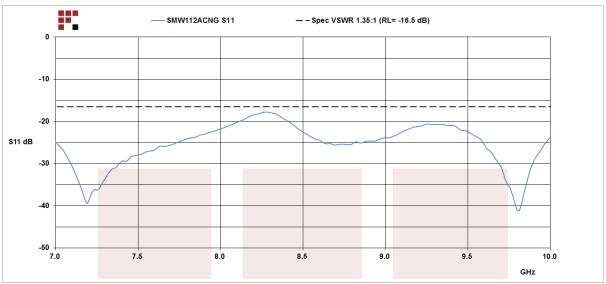
Fairview Microwave 1130 Junction Dr. #100 Allen, TX 75013

Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com



Typical Performance Data



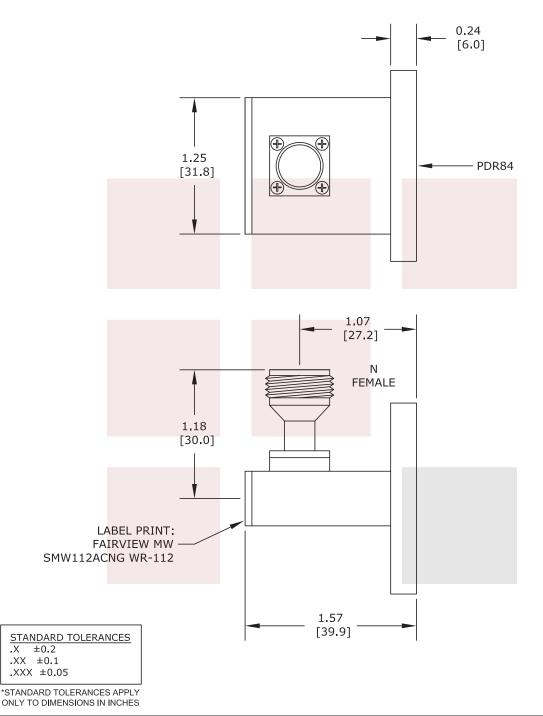
WR-112 to N Female Waveguide to Coax Adapter PDR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview 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 PDR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band SMW112ACNG

URL: https://www.fairviewmicrowave.com/wr-112-n-female-connector-waveguide-coax-adapter-7.05-10-ghz-smw112acng-p.aspx

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NOTES:

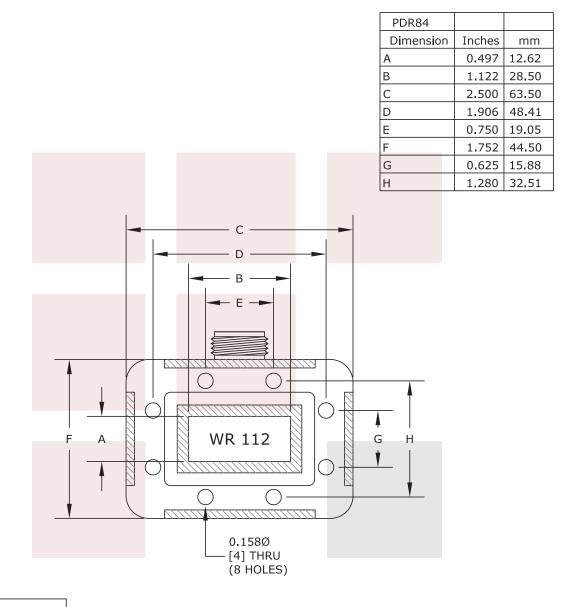
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.

2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.

3. DIMENSIONS ARE IN INCHES [mm]. FAIRVIEW MICROWAVE INC. ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM TITLE DWG NO CAGE CODE SMW112ACNG 3FKR5 WR-112 to N Female Waveguide to Coax Adapter PDR84 Flange With 7.05 GHz to 10 GHz Frequency Range For X Band CAD FILE 072516 SHEET SCALE N/A SIZE A 2233







STANDARD TOLERANCES

.X ±0.2 .XX ±0.1 .XXX ±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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