

**WR-90 to N Female Waveguide to Coax Adapter
 UBR100 Flange With 8.2 GHz to 12.4 GHz Frequency
 Range For X Band**

The 90AC206NA is a waveguide to coaxial adapter with a frequency range of 8.2 to 12.4 GHz, operating in the X band. This adapter offers a precision tolerance UBR100 flange and a WR-90 waveguide interface size. 90AC206NA 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-90
Flange	UBR100
RF Connector	N Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
VSWR			1.25:1	
Insertion Loss			0.21	dB
Input Power (CW)			150	Watts
Input Power (Peak)			3	KWatts

Mechanical Specifications

Size

Length	1.5 in [38.1 mm]
Width	1.63 in [41.4 mm]
Height	1.96 in [49.78 mm]
Weight	0.1395 lbs [63.28 g]

RF Connector

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

Waveguide Interface

Waveguide Type	WR-90
Flange Type	UBR100
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

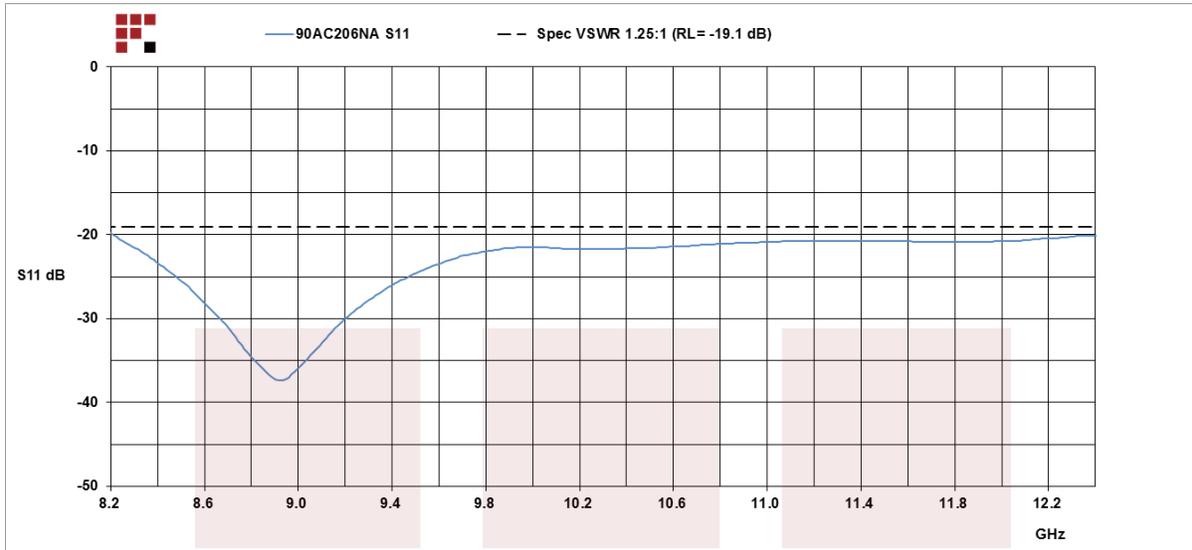


Features:

- X Band, 8.2 to 12.4 GHz Frequency Range
- WR-90 Waveguide Interface with UBR100 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

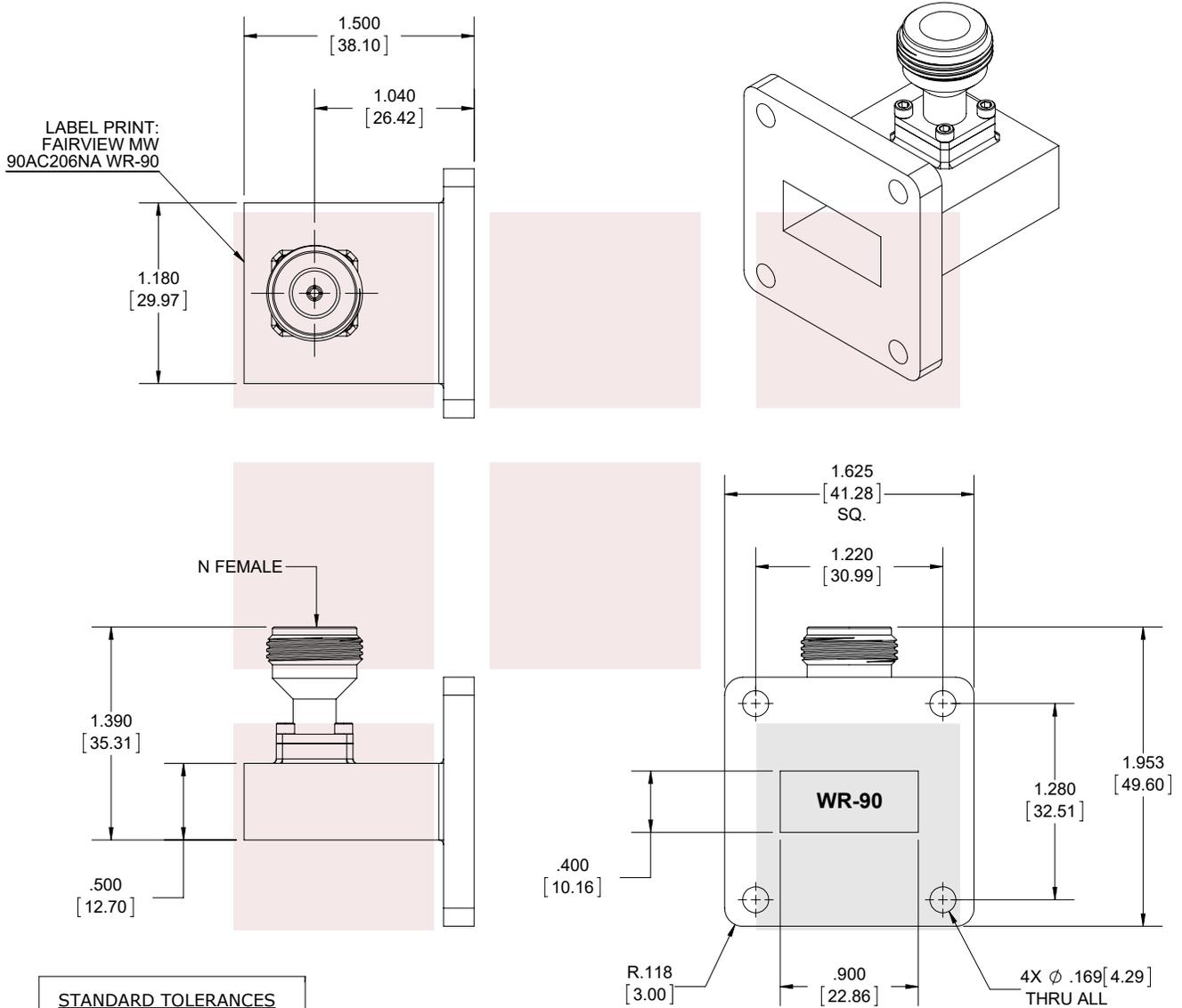


WR-90 to N Female Waveguide to Coax Adapter UBR100 Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-90 to N Female Waveguide to Coax Adapter UBR100 Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band 90AC206NA](https://www.fairviewmicrowave.com/wr-90-n-female-connector-waveguide-coax-adapter-8.2-12.4-ghz-90ac206na-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-90-n-female-connector-waveguide-coax-adapter-8.2-12.4-ghz-90ac206na-p.aspx>

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STANDARD TOLERANCES	
.X	±0.2
.XX	±0.01
.XXX	±0.005

*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-90 to N Female Waveguide to Coax Adapter UBR100 Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band		DWG NO 90AC206NA		CAGE CODE 3FKR5
CAD FILE	070617	SHEET	1 OF 1	SCALE N/A
SIZE	A	9999		