

**WR-90 to N Female Waveguide to Coax Adapter UG-39/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band**

The FMWCA1008 is a waveguide to coaxial adapter operating in the X Band with a 8.2 to 12.4 GHz frequency range. This adapter offers a WR-90 waveguide interface size using a standard UG-39/U Square Cover Flange. The FMWCA1008 is constructed of Copper Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a N Female Nickel Plated Brass Connector.



**Configuration**

Waveguide Size	WR-90
Flange	UG-39/U Square Cover
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	

**Mechanical Specifications**

Weight 0.324 lbs [146.96 g]

**RF Connector**

Connector Type N Female  
 Body Material and Plating Brass, Nickel

**Waveguide Interface**

Waveguide Type WR-90  
 Flange Type Square Cover  
 Flange Designation UG-39/U  
 Body Material and Plating Copper, Paint

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

**Plotted and Other Data**

Notes:

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

**Features:**

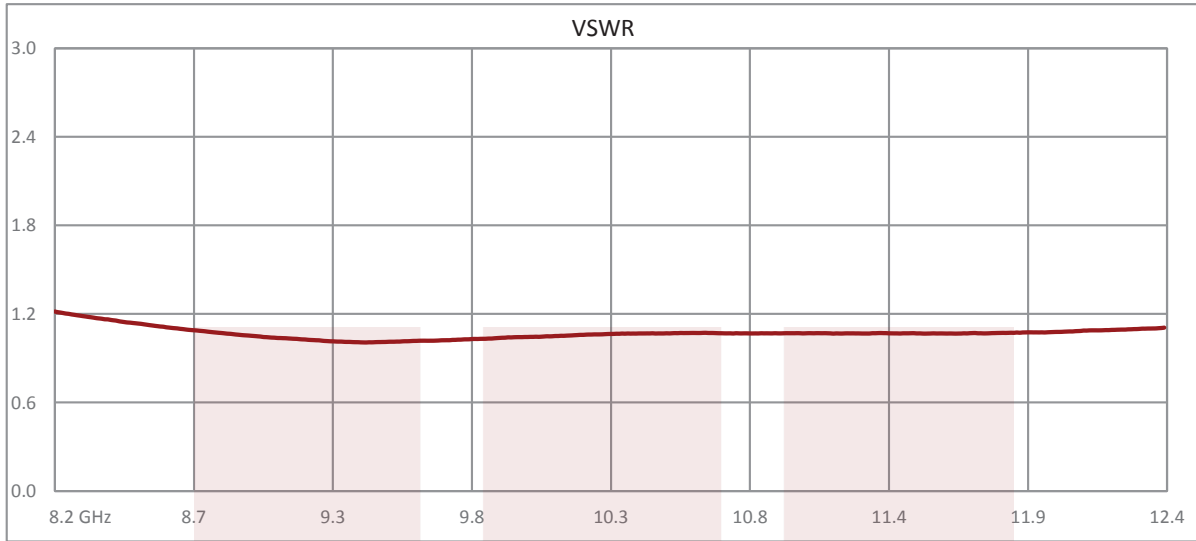
- X Band
- 8.2 to 12.4 GHz Frequency Range
- WR-90 Waveguide Interface
- Standard UG-39/U Square Cover Flange
- N Female RF Interface

**Applications:**

- Test Benches
- Radar
- Satellite
- Microwave Radio Systems
- Military and Space
- Communication Systems

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**Typical Performance Data**

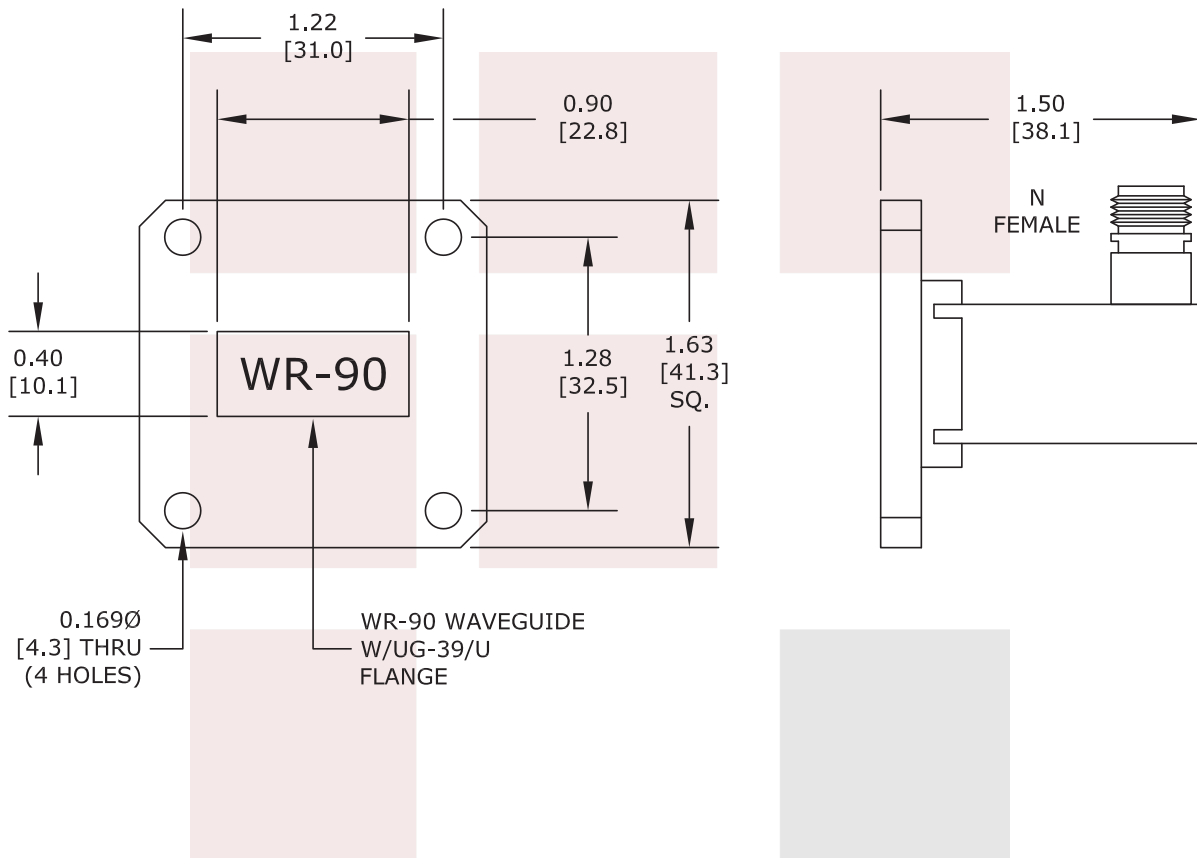


WR-90 to N Female Waveguide to Coax Adapter UG-39/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, 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 UG-39/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band FMWCA1008](#)

URL: <https://www.fairviewmicrowave.com/wr-90-n-female-waveguide-coax-adapter-ug39-square-12.4-ghz-fmwca1008-p.aspx>

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UNLESS OTHERWISE SPECIFIED  
 DIMENSIONS ARE IN INCHES.  
 DECIMALS            ANGLES  
 .X ±.030            ±1/2 DEG.  
 .XX ±.015           FRACTIONS  
 .XXX ±.005        ±1/32

\* THESE DIMENSIONS AND TOLERANCES  
 SUPERSEDE NOTE #1 ON TITLE BLOCK.

<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-90 to N Female Waveguide to Coax Adapter UG-39/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band		DWG NO <b>FMWCA1008</b>		CAGE CODE <b>3FKR5</b>	
CAD FILE	092616	SHEET	SCALE	N/A	SIZE A 2233