

WR-90 to SMA 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 FMWCA1006 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 FMWCA1006 is constructed of Copper Alloy and painted to ensure durability. The coaxial connector offered by this adapter uses a SMA Female Nickel Plated Brass Connector.

Configuration

Waveguide Size	WR-90
Flange	UG-39/U Square Cover
RF Connector	SMA 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 0.269 lbs [122.02 g]

RF Connector

Connector Type SMA 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:

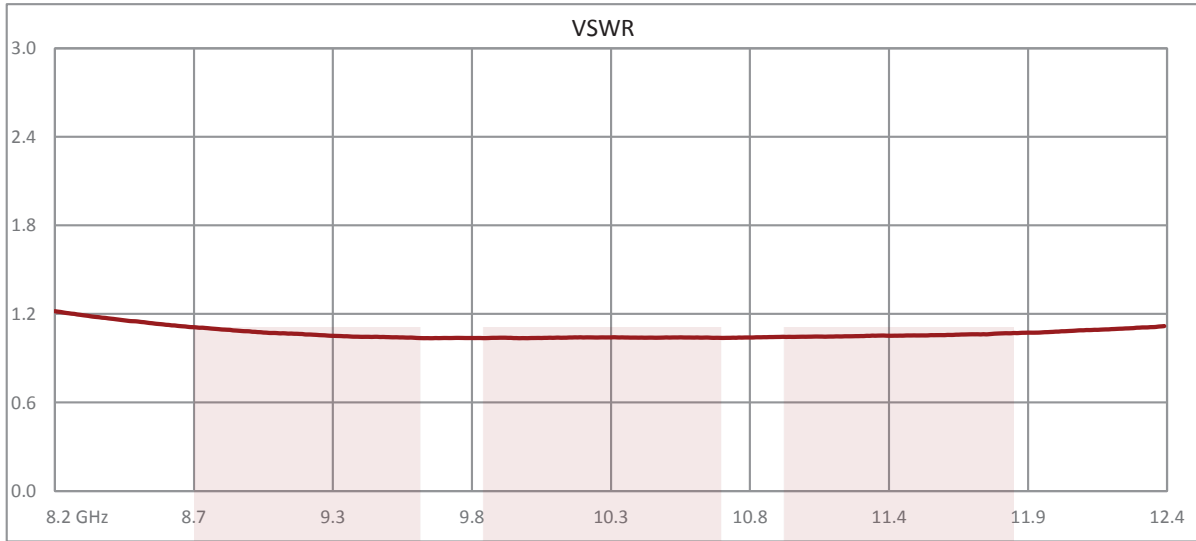
- X Band
- 8.2 to 12.4 GHz Frequency Range
- WR-90 Waveguide Interface
- Standard UG-39/U Square Cover Flange
- SMA Female RF Interface

Applications:

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

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Typical Performance Data

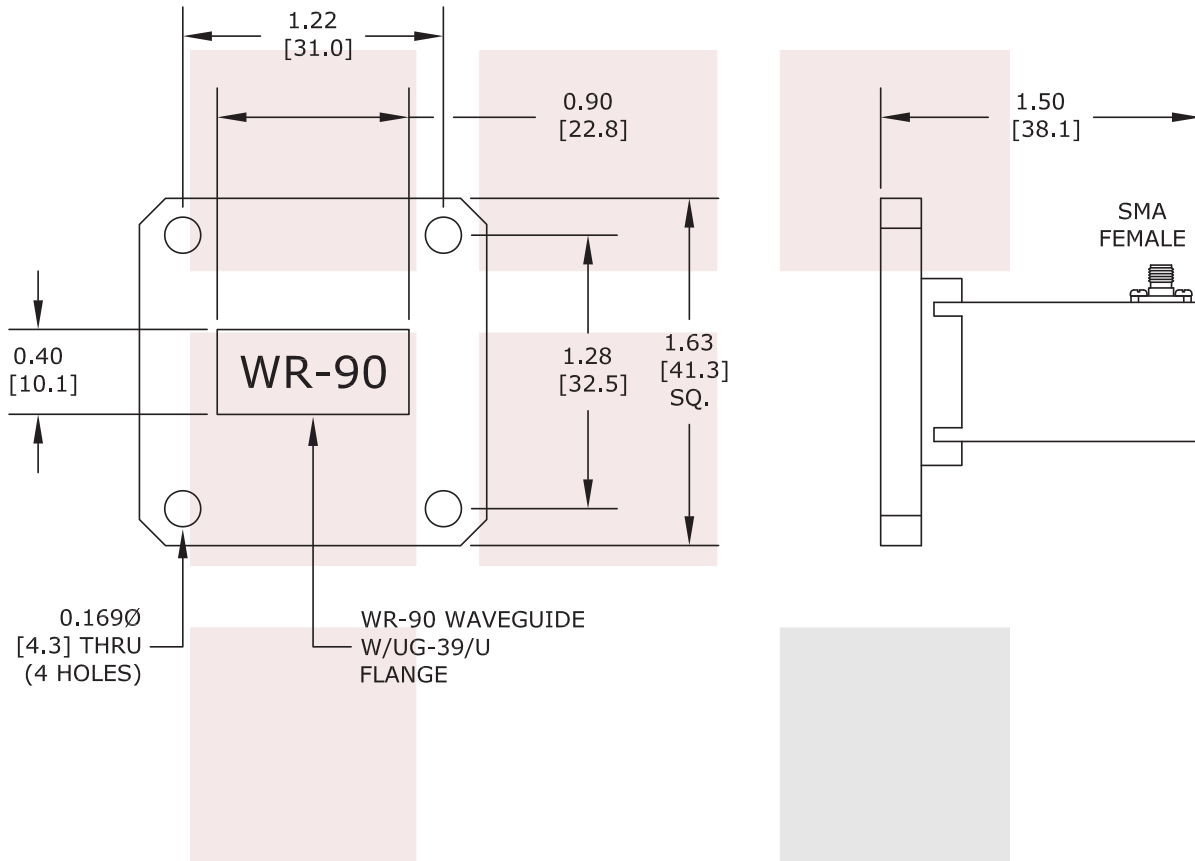


WR-90 to SMA Female Waveguide to Coax Adapter UG-39/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in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

For additional information on this product, please click the following link: [WR-90 to SMA Female Waveguide to Coax Adapter UG-39/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band FMWCA1006](#)

URL: <https://www.fairviewmicrowave.com/wr-90-sma-female-waveguide-coax-adapter-ug39-square-12.4-ghz-fmwca1006-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.

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ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		DWG NO FMWCA1006		CAGE CODE 3FKR5	
TITLE WR-90 to SMA Female Waveguide to Coax Adapter UG-39/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band		CAD FILE 092116	SHEET	SCALE N/A	SIZE A 2233