

**WR-90 to SMA Female Waveguide to Coax Adapter
UG-135/U Square Cover Flange With 8.2 GHz to
12.4 GHz Frequency Range For X Band**

The FMWCA1025 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 coupled with a precision tolerance UG-135/U Square Cover flange. The FMWCA1025 is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connection offered by this adapter uses a SMA Female connector.

Configuration

Waveguide Size	WR-90
Flange	UG-135/U Square Cover
RF Connector	SMA Female
Body Geometry	Right Angle

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	8.2		12.4	GHz
VSWR			1.25:1	
Insertion Loss		0.3		dB

Mechanical Specifications

RF Connector	
Connector Type	SMA Female

Waveguide Interface	
Waveguide Type	WR-90
Flange Type	Square Cover
Flange Designation	UG-135/U
Body Material and Plating	Aluminum, Chem Film

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

Plotted and Other Data

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



Features:

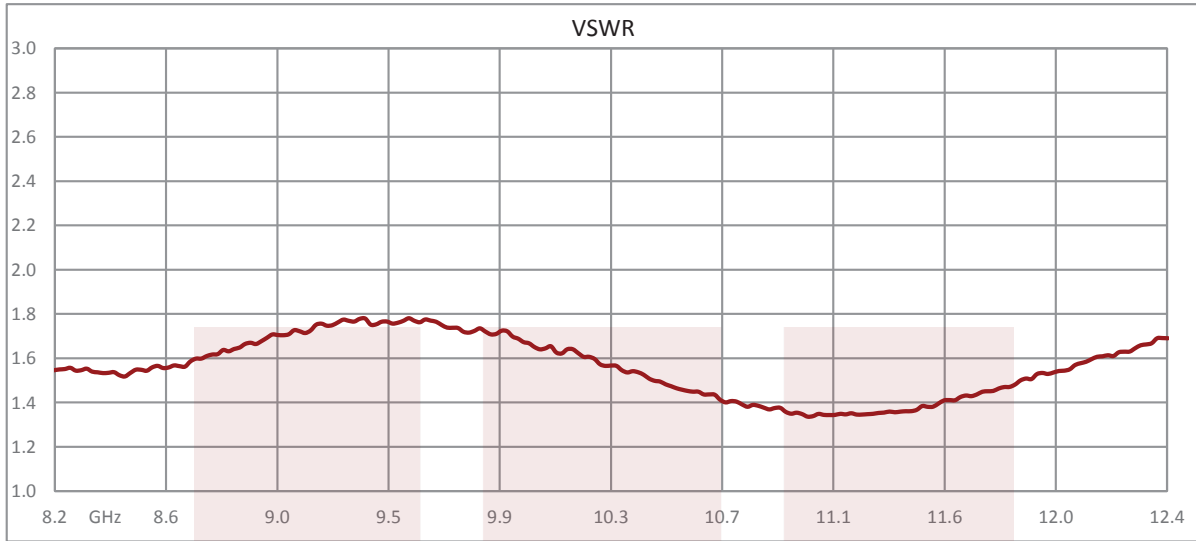
- X Band 8.2 to 12.4 GHz Frequency Range
- WR-90 Waveguide Interface with UG-135/U Square Cover Flange
- SMA Female RF Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Applications:

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

Fairview Microwave
301 Leora Ln., Suite 100
Lewisville, TX 75056
Tel: 1-800-715-4396 / (972) 649-6678
Fax: (972) 649-6689
www.fairviewmicrowave.com
sales@fairviewmicrowave.com

Typical Performance Data

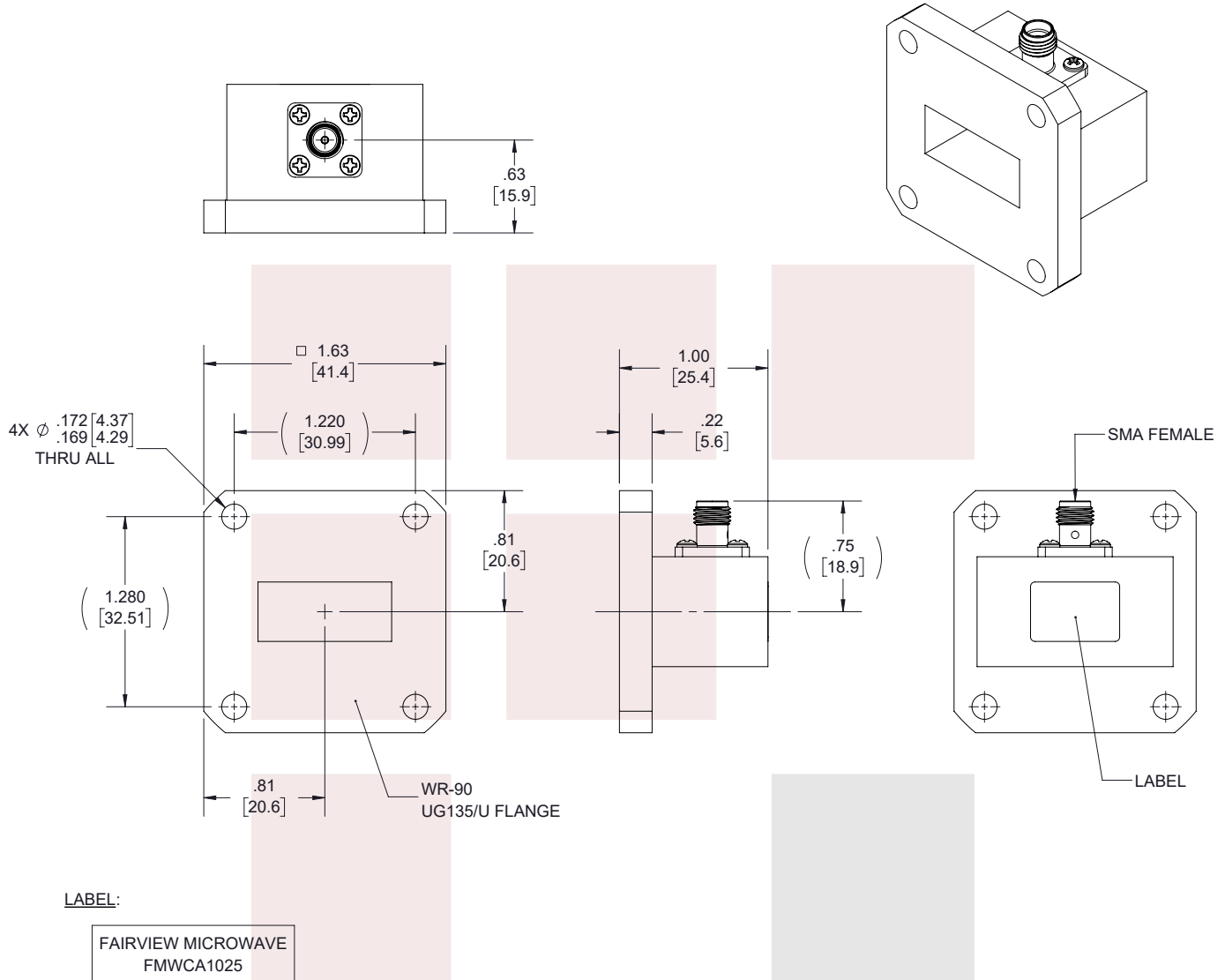


WR-90 to SMA Female Waveguide to Coax Adapter UG-135/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in 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-135/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band FMWCA1025](https://www.fairviewmicrowave.com/wr-90-sma-female-waveguide-coax-adapter-ug135-square-12.4-ghz-fmwca1025)

URL: <https://www.fairviewmicrowave.com/wr-90-sma-female-waveguide-coax-adapter-ug135-square-12.4-ghz-fmwca1025-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume any liability arising out of the use of any part or documentation.



LABEL:

FAIRVIEW MICROWAVE
 FMWCA1025
 8.0 - 12.4 GHz

STANDARD TOLERANCES

.X	±0.2
.XX	±0.02
.XXX	±0.010

*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		DWG NO		CAGE CODE	
WR-90 to SMA Female Waveguide to Coax Adapter UG-135/U Square Cover Flange With 8.2 GHz to 12.4 GHz Frequency Range For X Band		FMWCA1025		3FKR5	
CAD FILE	020818	SHEET	1 OF 1	SCALE	N/A
		SIZE	A		7361