

**WR-62 to SMA Female Waveguide to Coax Adapter
UG-1665/U Square Cover Flange With 12.4 GHz to
18 GHz Frequency Range For Ku Band**

The FMWCA1003 is a waveguide to coaxial adapter operating in the Ku Band with a 12.4 to 18 GHz frequency range. This adapter offers a WR-62 waveguide interface size using a standard Square Cover Flange. The FMWCA1003 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-62
Flange	UG-1665/U Square Cover
RF Connector	SMA Female
Impedance	50 Ohms
Body Geometry	Right Angle

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	12.4		18	GHz
VSWR		1.25:1		

Mechanical Specifications

Weight 0.1725 lbs [78.24 g]

RF Connector

Connector Type SMA Female
Body Material and Plating Brass, Nickel

Waveguide Interface

Waveguide Type WR-62
Flange Type Square Cover
Flange Designation UG-1665/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:

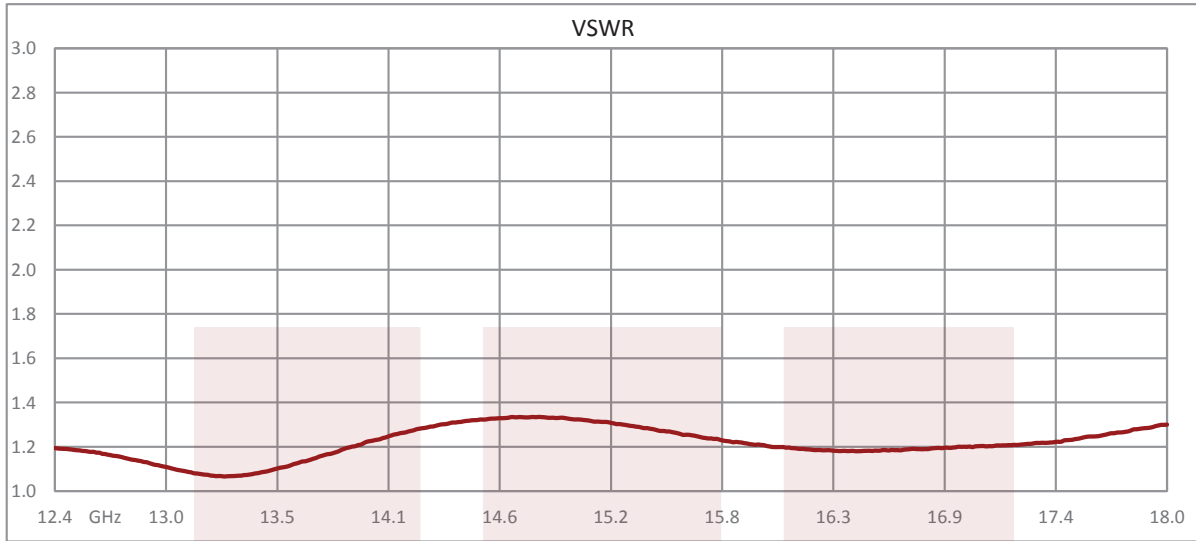
- Ku Band
- 12.4 to 18 GHz Frequency Range
- WR-62 Waveguide Interface
- UG-1665/U Square Cover Flange
- SMA Female RF Interface

Applications:

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

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

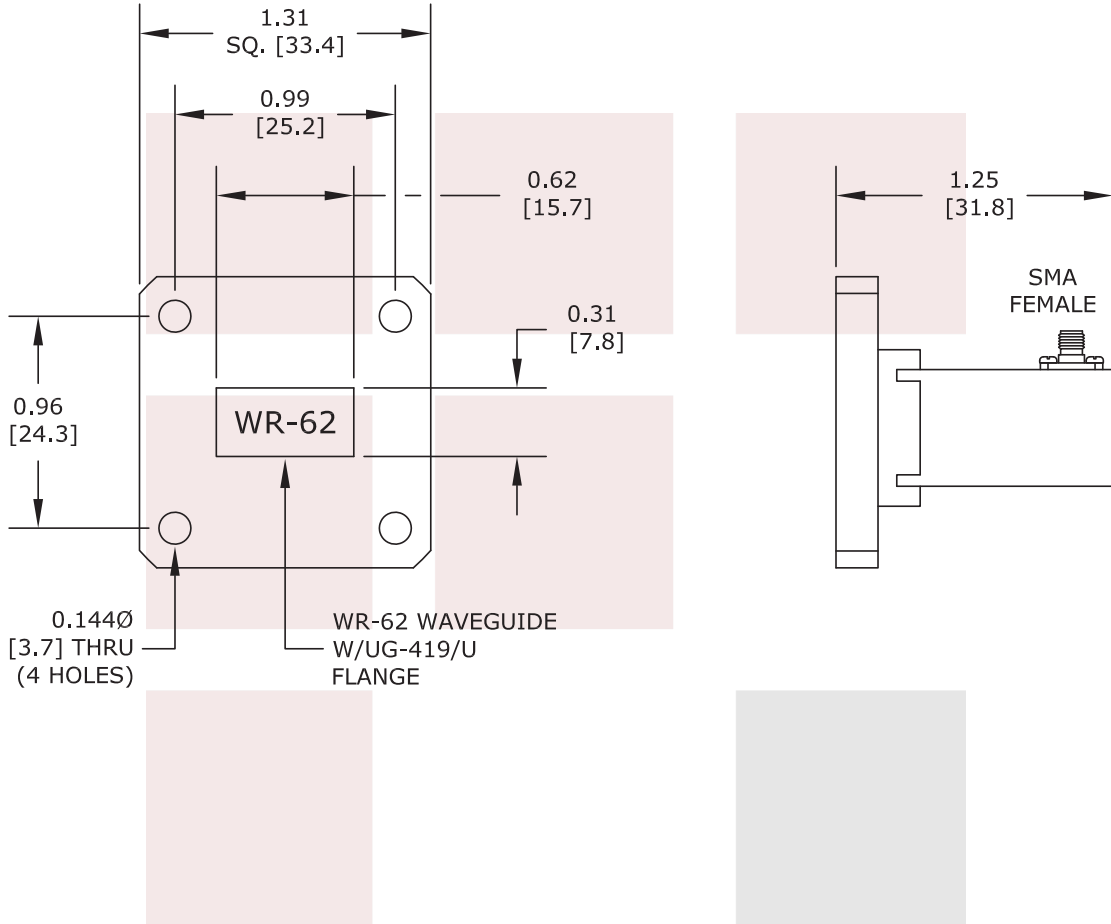


WR-62 to SMA Female Waveguide to Coax Adapter UG-1665/U Square Cover Flange With 12.4 GHz to 18 GHz Frequency Range For Ku Band from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-62 to SMA Female Waveguide to Coax Adapter UG-1665/U Square Cover Flange With 12.4 GHz to 18 GHz Frequency Range For Ku Band FMWCA1003](https://www.fairviewmicrowave.com/wr-62-sma-female-waveguide-coax-adapter-ug1665-square-18-ghz-fmw-ca1003)

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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.

FAIRVIEW MICROWAVE INC.		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].			
ALLEN, TX 75013 WWW.FAIRVIEWMICROWAVE.COM		DWG NO FMWCA1003		CAGE CODE 3FKR5	
TITLE WR-62 to SMA Female Waveguide to Coax Adapter UG-1665/U Square Cover Flange With 12.4 GHz to 18 GHz Frequency Range For Ku Band		CAD FILE 092116	SHEET	SCALE N/A	SIZE A 2233