

WR-42 to SMA Female Waveguide to Coax Adapter UG-597/U Square Cover with 18 GHz to 26.5 GHz K Band in Aluminum, Chem Film

The FMWCA1022 is a waveguide to coaxial adapter operating in the K Band with a 18 to 26.5 GHz frequency range. This adapter offers a WR-42 waveguide interface size coupled with a precision tolerance UG-597/U Square Cover flange. The FMWCA1022 is constructed of aluminum to ensure durability and repeatable RF performance. The coaxial connection offered by this adapter uses an SMA Female connector.

Configuration

Waveguide Size	WR-42
Flange	UG-597/U Square Cover
RF Connector	SMA Female
Body Geometry	Right Angle

Electrical Specifications

Description	Min	Typ	Max	Units
Frequency Range	18		26.5	GHz
VSWR			1.3:1	
Insertion Loss		0.3		dB

Mechanical Specifications

Weight 0.026 lbs [11.79 g]

RF Connector

Connector Type SMA Female

Waveguide Interface

Waveguide Type WR-42
 Flange Type Square Cover
 Flange Designation UG-597/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:

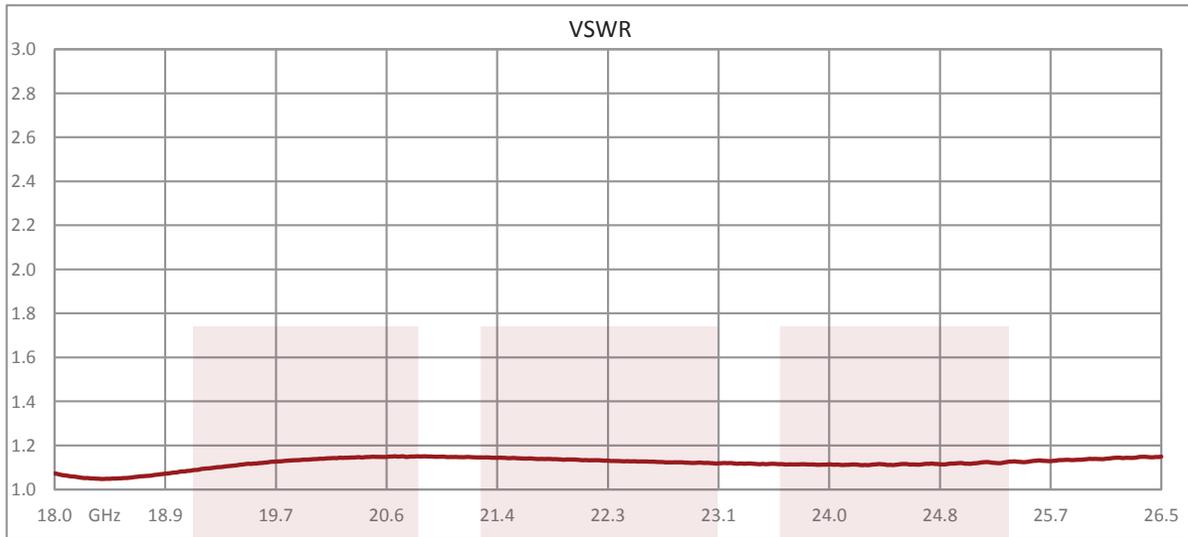
- K Band 18 to 26.5 GHz Frequency Range
- WR-42 Waveguide Interface with UG-597/U Square Cover Flange
- SMA Female RF Interface
- Comprehensive waveguide offerings also include E-Bends, H-Bends, Sections, Filters, Terminations, Couplers, and more.

Applications:

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

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Typical Performance Data

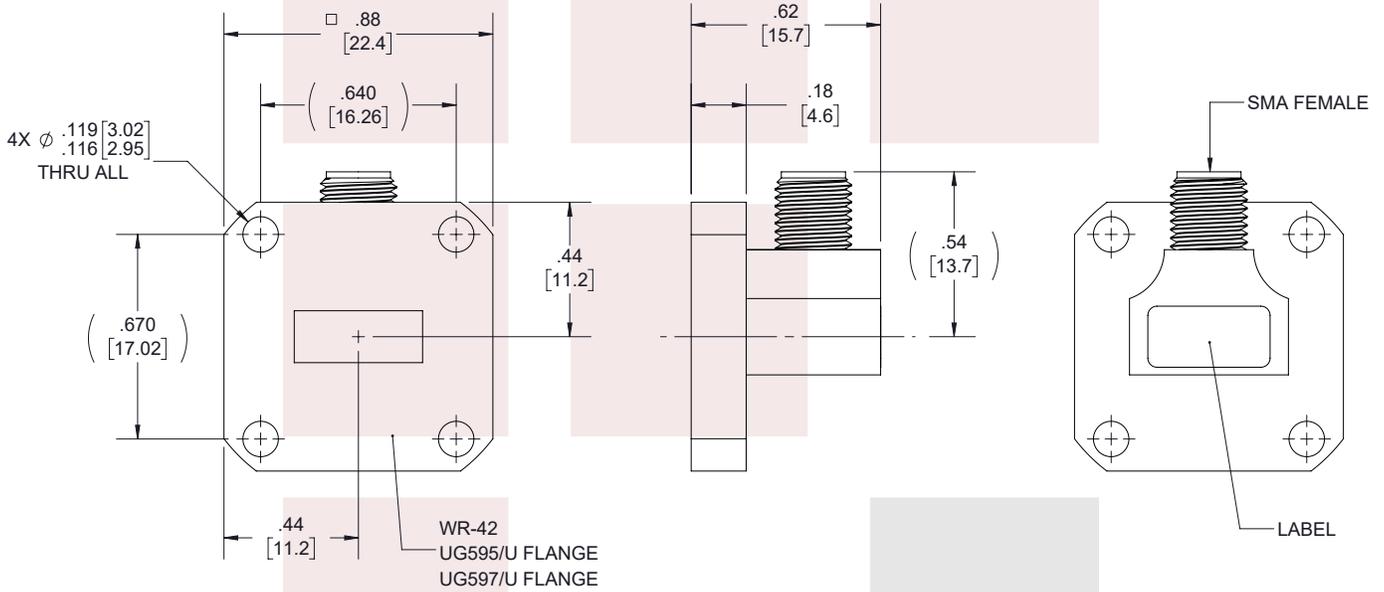
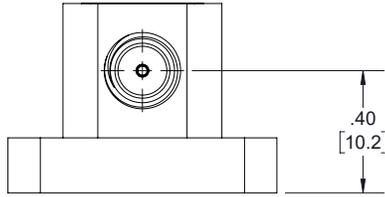
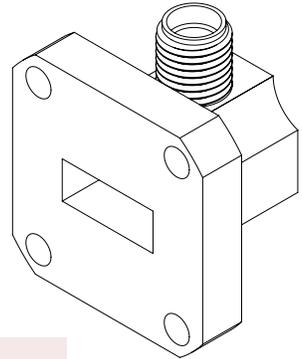


WR-42 to SMA Female Waveguide to Coax Adapter UG-597/U Square Cover with 18 GHz to 26.5 GHz K Band in Aluminum, Chem Film from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Allen, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-42 to SMA Female Waveguide to Coax Adapter UG-597/U Square Cover with 18 GHz to 26.5 GHz K Band in Aluminum, Chem Film FMWCA1022](https://www.fairviewmicrowave.com/wr42-sma-female-waveguide-to-coax-adapter-ug597-square-fmwca1022-p.aspx)

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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
FMWCA1022
18.0 - 26.5 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 WR-42 to SMA Female Waveguide to Coax Adapter UG-597/U Square Cover with 18 GHz to 26.5 GHz K Band in Aluminum, Chem Film		DWG NO FMWCA1022		CAGE CODE 3FKR5		
CAD FILE	020818	SHEET	1 OF 1	SCALE	N/A	SIZE A 7361