

# FMW42B101 **DATA SHEET**

## **WR-42 Waveguide E-Bend Instrumentation Grade** Using UG-595/U Flange with a 18 GHz to 26.5 GHz **Frequency Range**

Fairview Microwave carries a wide variety of waveguide bends ranging from WR-12 to WR-137. These waveguide bends include grooved and non-grooved designs. Standard waveguide bends are available in E-Bend and H-Bend configurations. For ease of identification, our commercial grade waveguide bends are painted grey while our instrumentation grade waveguide bends are gold plated. Our instrumentation grade waveguide bends were designed with precision tolerances of ±0.001' and constructed of a high grade oxygen free hard copper to ensure repeatable RF performance.



Description	Min	Тур	Max	Units
Frequency Range	18		26.5	GHz
VSWR			1.1:1	
Insertion Loss		0.2		dB

<sup>\*</sup> Values at 25°C, sea level

## **Mechanical Specifications**

Waveguide Size

Waveguide Design Instrumentation Grade

Flange 1

Square Cover Flange Type Flange Designation UG-595/U Material **Brass Copper** 

**Plating** Gold

Waveguide

Interface WR-42 Material **Brass Copper** Plating Gold

Flange 2 Flange Type

Square Cover Flange Designation UG-595/U Material **Brass Copper** 

**Plating** Gold

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

### **Plotted and Other Data**

Notes:

· Values at 25 °C, sea level



### Features:

- · Commercial grade and instrumentation grade sections and bends covering frequency ranges from 5.8 GHz to 90 GHz
- · Wide variety of flange types, including grooved and non-grooved designs.
- Precision waveguide mechanical tolerances of ±0.001'
- Comprehensive waveguide offering also includes Bends, Filters, Terminations, and Waveguide to Coaxial Adapters.

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WR-42 Waveguide E-Bend Instrumentation Grade Using UG-595/U Flange with a 18 GHz to 26.5 GHz Frequency Range 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 Lewisville, Texas. Fairview Microwave is RF on-demand.

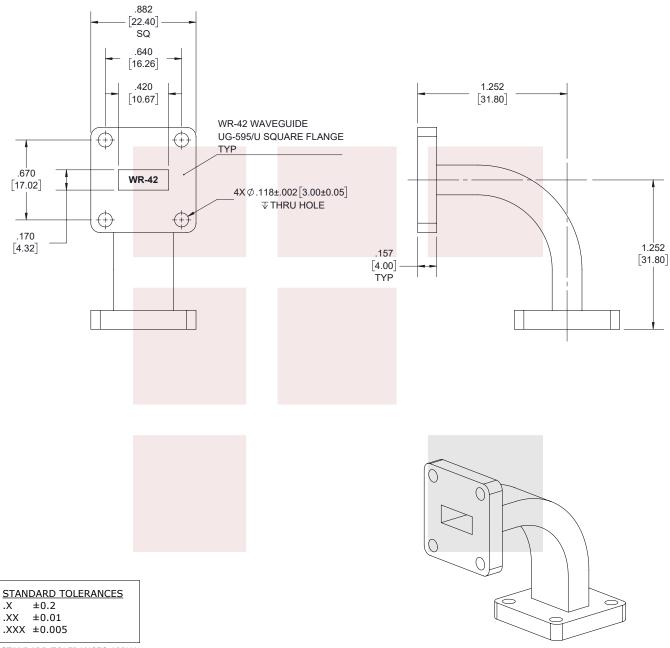
For additional information on this product, please click the following link: WR-42 Waveguide E-Bend Instrumentation Grade Using UG-595/U Flange with a 18 GHz to 26.5 GHz Frequency Range FMW42B101

URL: https://www.fairviewmicrowave.com/wr-42-waveguide-e-bend-ug-595-u-flange-18-26.5-ghz-fmw42b101-p.aspx









\*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

Fairview Microwave	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].						
an INFINIT® brand							
WR-42 Waveguide E-Bend Instrumentation Grade Using UG-595/U Flange with a 18 GHz to 26.5 GHz Frequency Range	DWG NO FMW42B101			CAGE CODE 3FKR5			
	CAD FILE 07/05/19	SHEET 1 OF 1	SCAL	E N/A	SIZE A	7361	