

## FMWAN042-20 DATA SHEET

# WR-42 Standard Gain Horn Antenna Operating From 18 GHz to 26.5 GHz, 20 dBi Nominal Gain, UG-597/U Flange

The FMWAN042-20 standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 20 dBi. The Fairview Microwave 20 dBi WR-42 horn antenna operates from 18 GHz to 26.5 GHz (K Band). This WR-42 standard gain horn has a UG-597/U type flange. Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. These units are Aluminum and Powder coated for increased resistance to weather and corrosion with a Horizontal and Vertical Beam Width of 17.5 and 17.3 degrees respectively. Fairview Microwave's WR-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. K Band standard gain horn antenna can ship the same day to anywhere in the world. The WR-42 FMWAN042-20 waveguide horn is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

## Configuration

Design WR-42 Polarization Linear

## **Electrical Specifications**

Description	Min	Тур	Max	Units
Frequency Range	18		26.5	GHz
Nominal Gain		20		dB
Horizontal 3dB Beam Width	า	17.5		Deg
Vertical 3dB Beam Width		17.3		Deg
VSWR		1.3:1		

## **Mechanical Specifications**

#### Size

 Length
 4.331 in [110.01 mm]

 Width/Diameter
 2.054 in [52.17 mm]

 Height
 1.524 in [38.71 mm]

 Weight
 0.15 lbs [68.04 g]

#### **Waveguide Interface**

Waveguide Size WR-42
Flange Type Square Cover
Flange Designation UG-597/U
Body Material and Plating Aluminum, Gray

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

#### **Plotted and Other Data**

Notes:



## **Features:**

- WR-42 Rectangular Waveguide Interface
- 18 GHz to 26.5 GHz
- 20 dBi Nominal Gain
- UG-597/U Cover Flange
- K Band

## **Applications:**

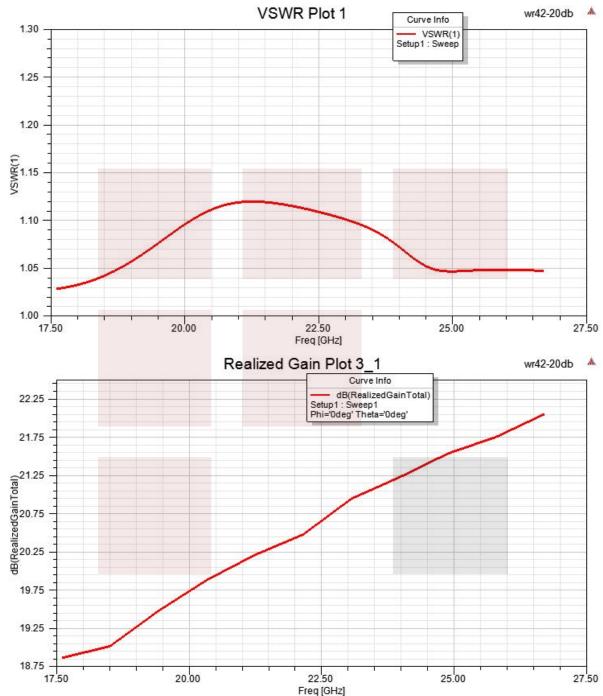
- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

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



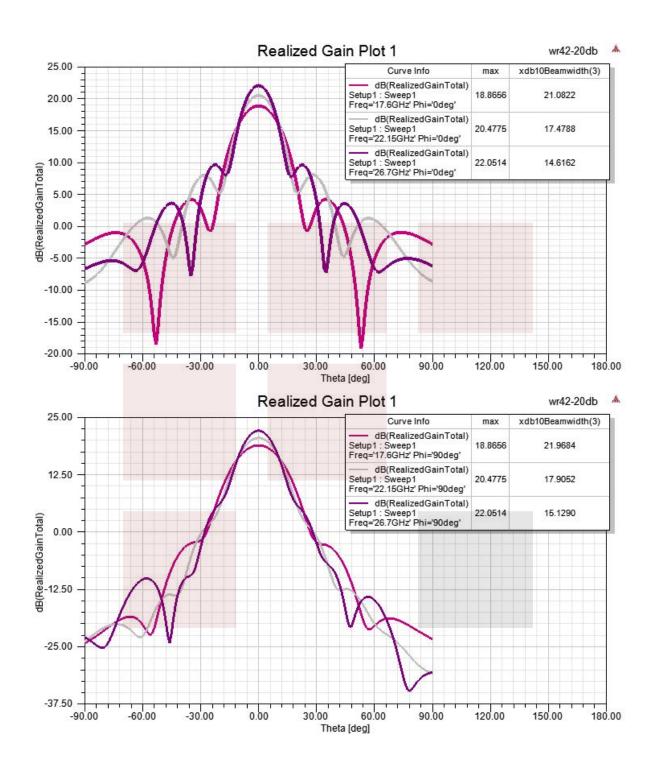


### **Typical Performance Data**













WR-42 Standard Gain Horn Antenna Operating From 18 GHz to 26.5 GHz, 20 dBi Nominal Gain, UG-597/U Flange 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 Standard Gain Horn Antenna Operating From 18 GHz to 26.5 GHz, 20 dBi Nominal Gain, UG-597/U Flange FMWAN042-20

The information contained in this document is accurate to the best of our knowledge and representative of the part

URL:

	nerein. It may be necessar							
to implem	ent improvements. Fairview	/ Microwave	e reserves the r	ght to mak	e such d	hanges as requi	red. Unless	otherwise
	specifications are nominal.							
suitability	of the part described herein	n for any p	articular purpos	e, and Fair	view Mi	crowave does no	ot assume ar	y liability
arising ou	t of the use of any part or d	ocumentati	on.					





