

FMWAN042-20SF DATA SHEET

WR-42 Standard Gain Horn with 20 dBi gain, SMA Female connector

The FMWAN042-20SF standard gain horn antenna (also known as waveguide horn) from Fairview Microwave is part of our comprehensive selection of waveguide antennas. This standard gain horn is mated with a WR-42 to SMA Female waveguide to coaxial adapter and operates from 18 GHz to 26.5 GHz.

Our FMWAN042-20SF standard gain horn antenna has a nominal gain of 20 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 17.5 dB and 17.3 dB respectively. Fairview Microwave's SMA Female to WR-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the FMWAN042-20SF are used in a wide variety of applications due to the high-power handling capability, low loss, high directivity, and near constant electrical performance. Our WR-42 waveguide antennas with SMA Female interface is part of over 40,000 RF, microwave and millimeter wave components from Fairview Microwave available worldwide and Ship same day.

Configuration

Design WR-42 Standard Gain Horn

Coaxial Interface SMA Female

Electrical Specifications

Description	Min	Тур	Max	Units	
Frequency Range	18		26.5	GHz	
Waveguide Standard					
Gain		20		dBi	
Horizontal 3dB Beam Width		17.5		Degrees	
Vertical 3dB Beam Width		17.3		Degrees	
Waveguide to Coaxial	Adapter				
Input VSWR			1.3:1		

Mechanical Specifications

Size

 Length
 4.951 in 125.76 mm

 Width/Diameter
 2.054 in 52.17 mm

 Height
 1.524 in 38.71 mm

 Weight
 0.1229 lbs 55.75 g

RF Connector

Type SMA Female

Waveguide Interface

Waveguide Size WR-42

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:



Features:

- 18 GHz to 26.5 GHz
- WR-42 Waveguide Band
- 20 dBi Nominal Gain
- SMA Female Connector

Applications:

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- Satellite Antenna Testing

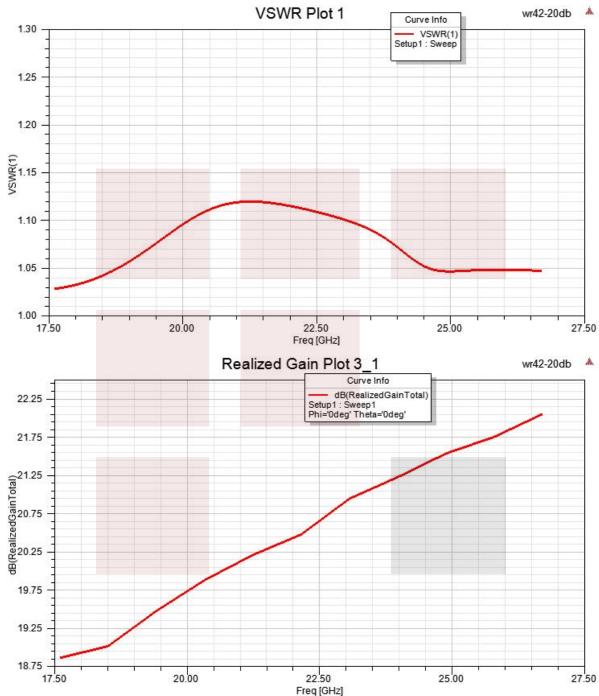
Fairview Microwave 301 Leora Ln., Suite 100 Lewisville, TX 75056 Tel: 1-800-715-4396 / (972) 649-6678

Fax: (972) 649-6689 www.fairviewmicrowave.com sales@fairviewmicrowave.com



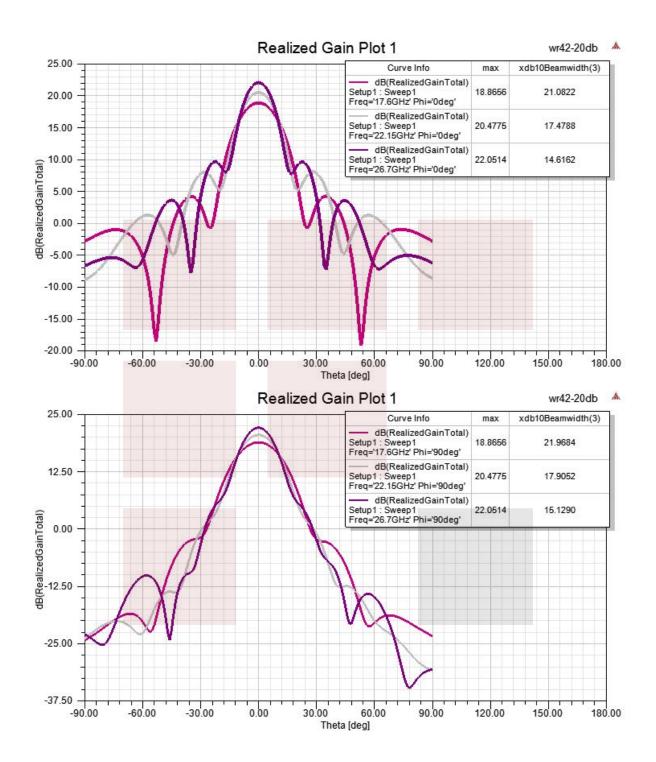


Typical Performance Data













WR-42 Standard Gain Horn with 20 dBi gain, SMA Female connector 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 with 20 dBi gain, SMA Female connector FMWAN042-20SF

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

URL:

described herein. It may be n					
to implement improvements.			-		
stated, all specifications are n					
suitability of the part describe	d herein for any pa	articular purpose, and Fair	view Microwave doe	es not assume any	/ liability
arising out of the use of any p	art or documentation	on.			





