

## FMWAN042-15SF DATA SHEET

# WR-42 Standard Gain Horn with 15 dBi gain, SMA Female connector

The FMWAN042-15SF 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 FMWAN042-15SF standard gain horn antenna has a nominal gain of 15 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 31 dB and 32 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 FMWAN042-15SF 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 Horn						
Gain				dBi		
Horizontal 3dB Beam Width				Degrees		
Vertical 3dB Beam Width		32		Degrees		
Waveguide to Coaxial	Adapter					
Input VSWR			1.3:1			

#### **Mechanical Specifications**

#### Size

 Length
 2.392 in 60.76 mm

 Width/Diameter
 1.258 in 31.95 mm

 Height
 0.942 in 23.93 mm

 Weight
 0.0729 lbs 33.07 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
- 15 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

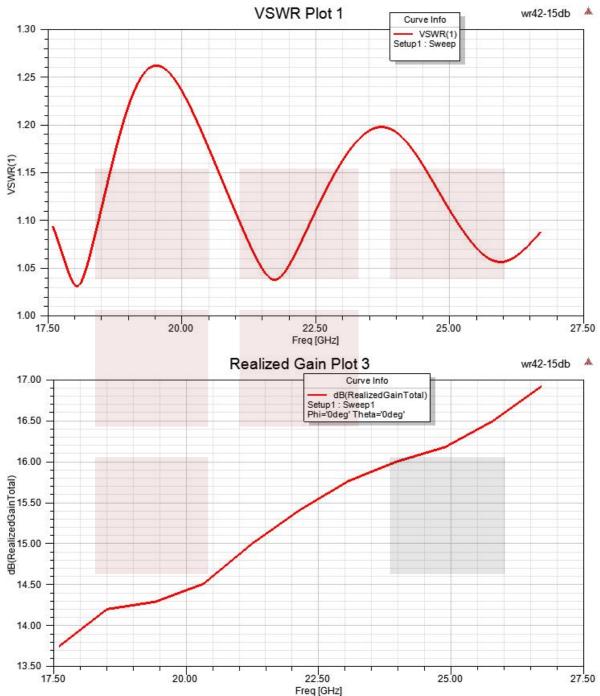
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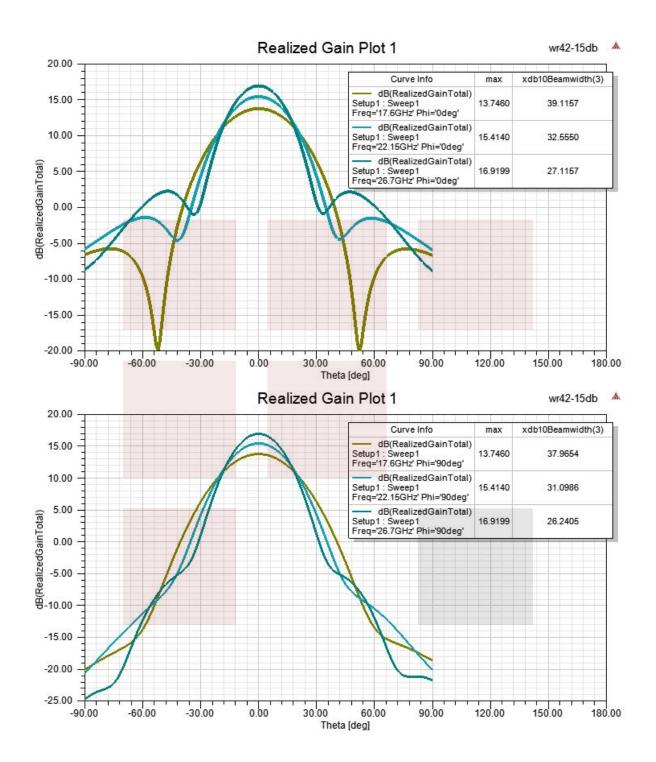


#### **Typical Performance Data**













WR-42 Standard Gain Horn with 15 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 15 dBi gain, SMA Female connector FMWAN042-15SF

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

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