

### FMWAN042-20KM DATA SHEET

# WR-42 Standard Gain Horn with 20 dBi gain, 2.92mm Male connector

The FMWAN042-20KM 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 2.92mm Male waveguide to coaxial adapter and operates from 18 GHz to 26.5 GHz.

Our FMWAN042-20KM 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 2.92mm Male 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 FMWAN042-20KM 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 2.92mm Male 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 2.92mm Male

#### **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
<b>Waveguide to Coaxial</b>	Adapter			
Input VSWR			1.4:1	

#### **Mechanical Specifications**

Size

 Length
 5.806 in 147.47 mm

 Width/Diameter
 2.054 in 52.17 mm

 Height
 1.524 in 38.71 mm

 Weight
 0.1 lbs 45.36 g

**RF Connector** 

Type 2.92mm Male

**Waveguide Interface** 

Waveguide Size WR-42

#### **Environmental Specifications**

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

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

Notes:

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#### Features:

- 18 GHz to 26.5 GHz
- WR-42 Waveguide Band
- 20 dBi Nominal Gain
- 2.92mm Male Connector

#### **Applications:**

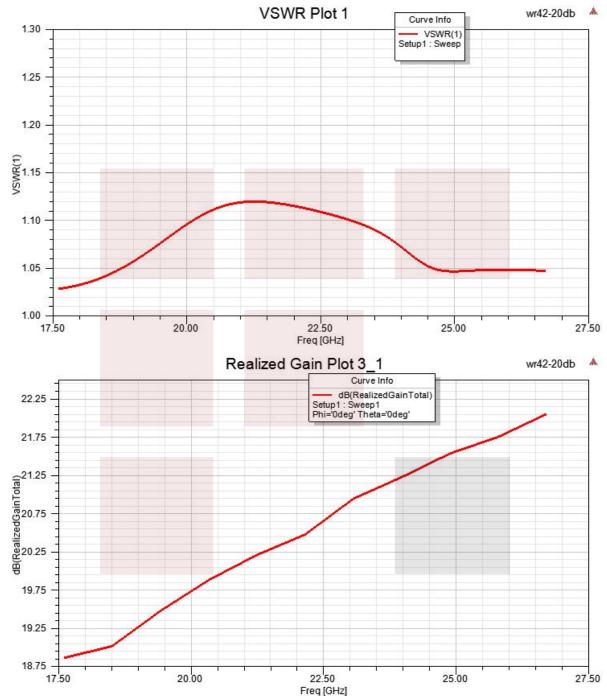
- Antenna Measurements
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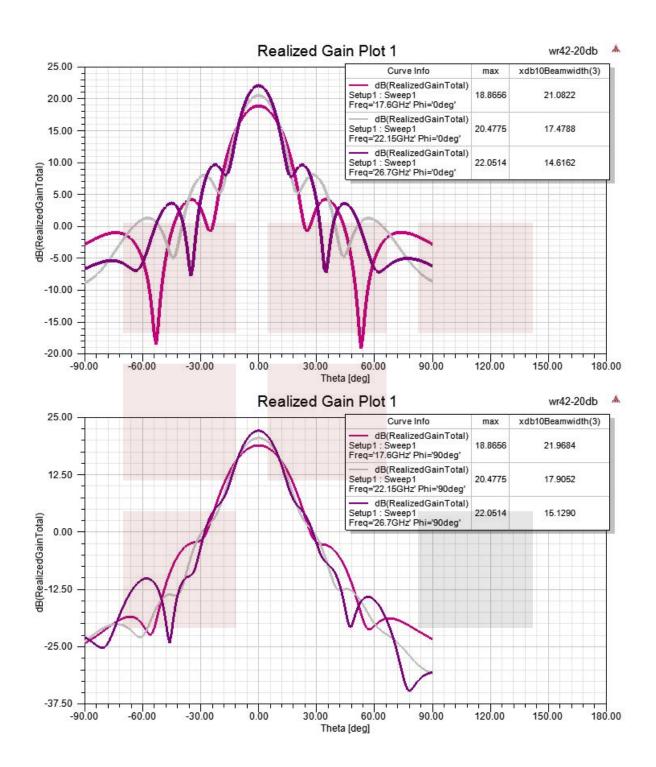


#### **Typical Performance Data**





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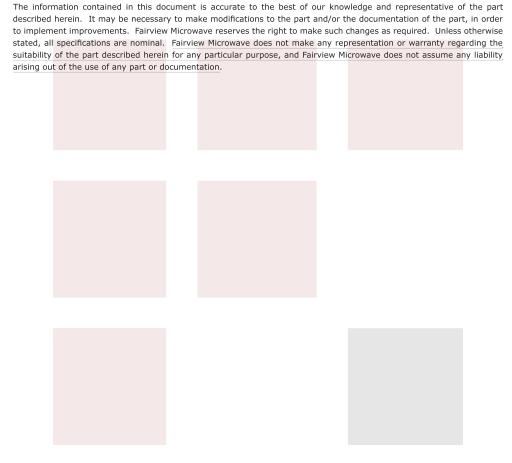




WR-42 Standard Gain Horn with 20 dBi gain, 2.92mm Male connector from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: WR-42 Standard Gain Horn with 20 dBi gain, 2.92mm Male connector FMWAN042-20KM

URL: https://www.fairviewmicrowave.com/wr-42-standard-gain-horn-20-dbi-2.92mm-fmwan042-20km-p.aspx



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