

## WR-42 Waveguide Antenna, 18 GHz to 26.5 GHz Frequency Range, 10 dBi Gain, UG-597/U Flange with Pre-Installed L mount

### FM2WAN042-10



#### Features

- WR-42 Rectangular Waveguide Interface
- 18 GHz to 26.5 GHz
- 10 dBi Nominal Gain
- UG-597/U Cover Flange
- K Band
- Pre-installed L Mount
- Integrates with Positioning Systems

#### Applications

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

#### Description

The FM2WAN042-10 K Band standard gain horn antenna (also known as waveguide horn) from Fairview Microwave has a nominal gain of 10 dBi. This WR-42 standard gain horn has a UG-597/U type flange and pre-installed L mount. The Fairview Microwave 10 dBi WR-42 horn antenna operates from 18 GHz to 26.5 GHz. The WR-42 FM2WAN042-10 waveguide horn is powder coated aluminum for added protection and corrosion resistance. It is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

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. Fairview Microwave's WR-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-42 standard gain horn antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

#### Configuration

|              |        |
|--------------|--------|
| Design       | WR-42  |
| Polarization | Linear |

#### Electrical Specifications

| Description                      | Minimum | Typical | Maximum | Units   |
|----------------------------------|---------|---------|---------|---------|
| Frequency Range                  | 18      |         | 26.5    | GHz     |
| Nominal Gain                     |         | 10      |         | dBi     |
| Horizontal Half Power Beam Width |         | 52.1    |         | Degrees |
| Vertical Half Power Beam Width   |         | 51.6    |         | Degrees |
| VSWR                             |         | 1.3:1   |         |         |

#### Mechanical Specifications

|             |                       |
|-------------|-----------------------|
| <b>Size</b> |                       |
| Length      | 4.72 in [119.89 mm]   |
| Width       | 4.72 in [119.89 mm]   |
| Height      | 3.15 in [80.01 mm]    |
| Weight      | 0.6715 lbs [304.59 g] |

#### Waveguide Interface

|                    |              |
|--------------------|--------------|
| Waveguide Size     | WR-42        |
| Flange Type        | Square Cover |
| Flange Designation | UG-597/U     |

WR-42 Waveguide Antenna, 18 GHz to  
26.5 GHz Frequency Range, 10 dBi Gain, UG-597/U  
Flange with Pre-Installed L mount



## FM2WAN042-10

Body Material and Plating

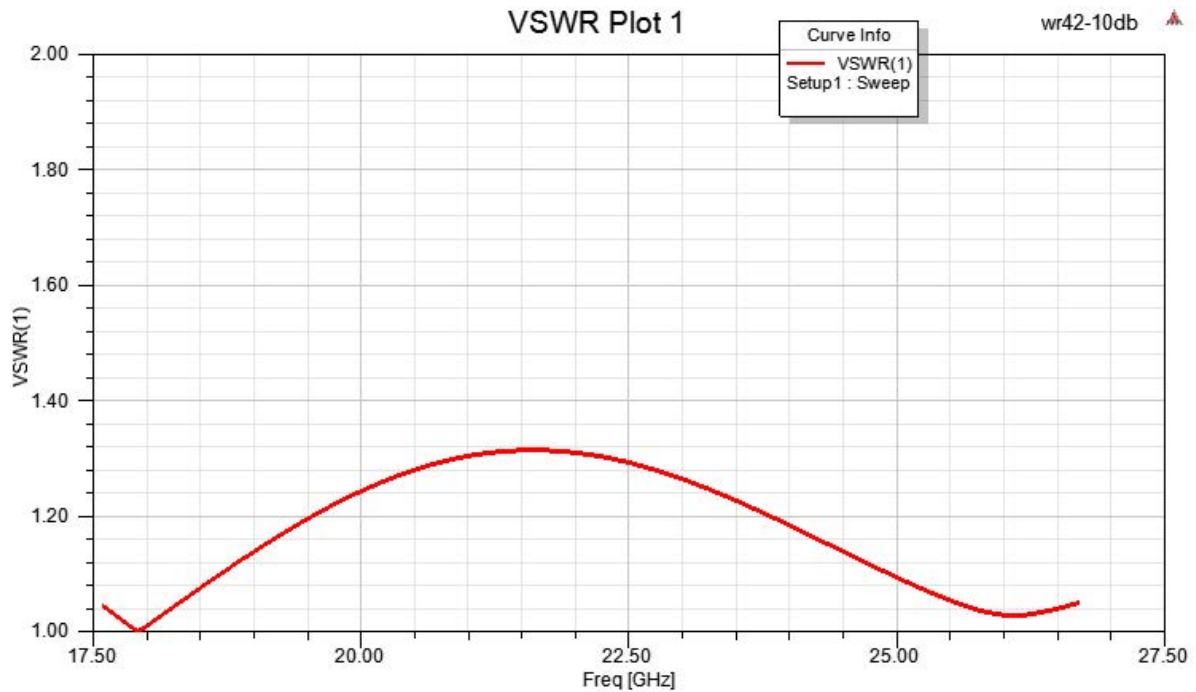
Aluminum, Gray

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

### Plotted and Other Data

Notes:

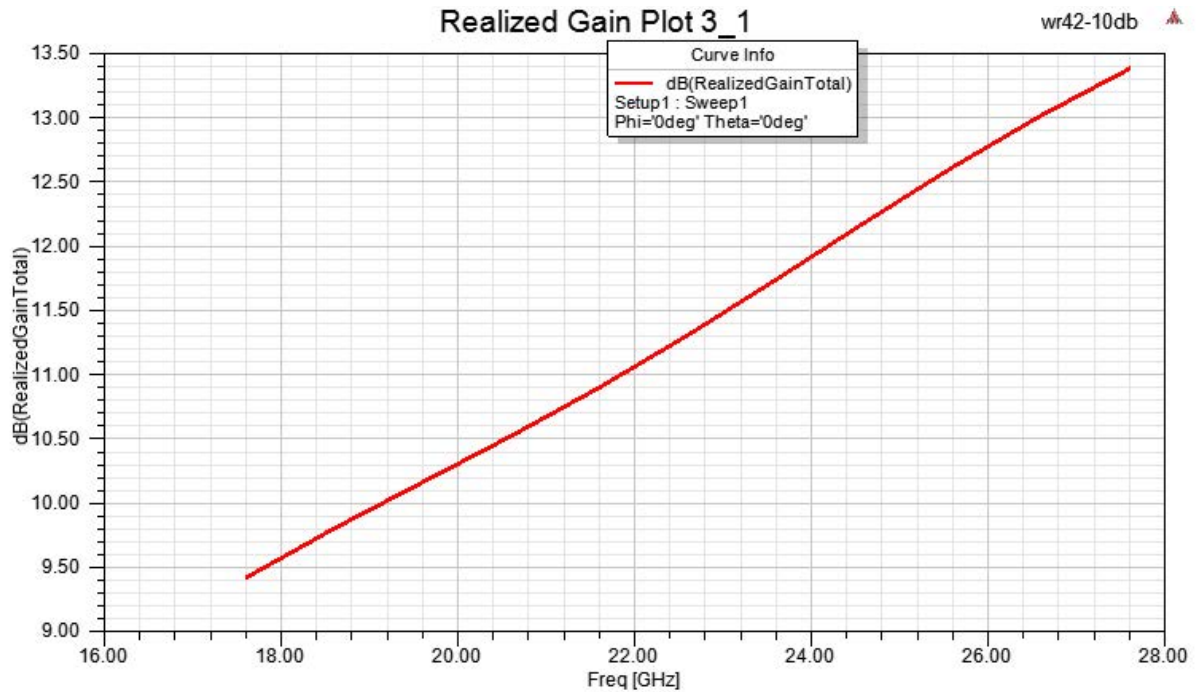
### Typical Performance Data



WR-42 Waveguide Antenna, 18 GHz to  
26.5 GHz Frequency Range, 10 dBi Gain, UG-597/U  
Flange with Pre-Installed L mount



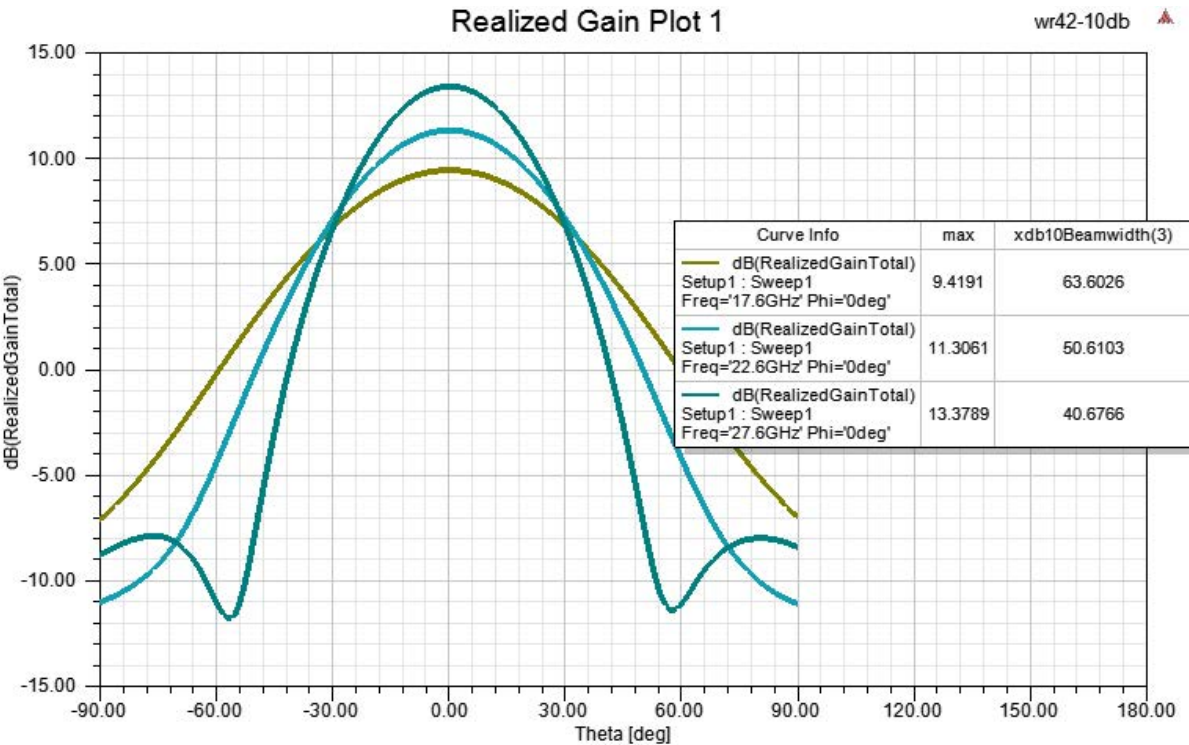
## FM2WAN042-10



WR-42 Waveguide Antenna, 18 GHz to 26.5 GHz Frequency Range, 10 dBi Gain, UG-597/U Flange with Pre-Installed L mount

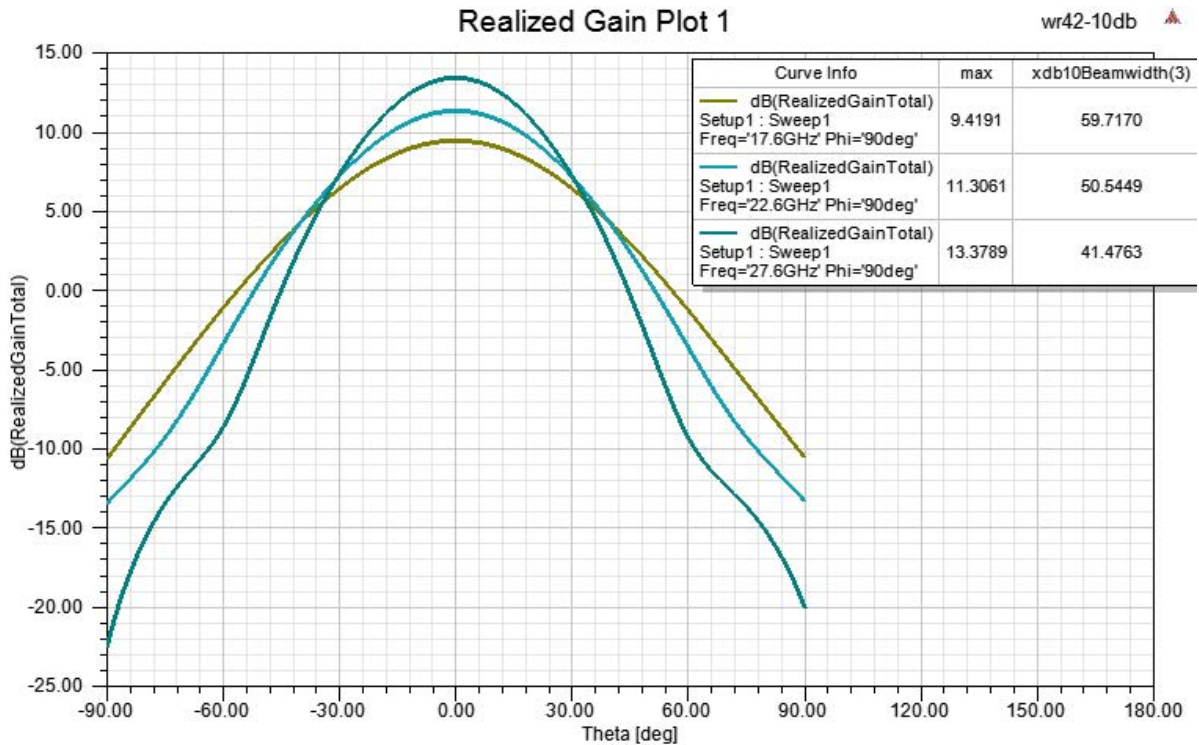


FM2WAN042-10



WR-42 Waveguide Antenna, 18 GHz to  
26.5 GHz Frequency Range, 10 dBi Gain, UG-597/U  
Flange with Pre-Installed L mount

**FM2WAN042-10**



WR-42 Waveguide Antenna, 18 GHz to 26.5 GHz Frequency Range, 10 dBi Gain, UG-597/U Flange with Pre-Installed L mount 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 Antenna, 18 GHz to 26.5 GHz Frequency Range, 10 dBi Gain, UG-597/U Flange with Pre-Installed L mount FM2WAN042-10](https://www.fairviewmicrowave.com/wr-42-waveguide-standard-gain-horn-10-dbi-ug-597-fm2wan042-10-p.aspx)

URL: <https://www.fairviewmicrowave.com/wr-42-waveguide-standard-gain-horn-10-dbi-ug-597-fm2wan042-10-p.aspx>

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to implement improvements. Fairview Microwave reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Fairview Microwave does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Fairview Microwave does not assume liability arising out of the use of any part or document.

FM2WAN042-10 CAD Drawing

WR-42 Waveguide Antenna, 18 GHz to 26.5 GHz Frequency Range,  
10 dBi Gain, UG-597/U Flange with Pre-Installed L mount

