

## WR-62 Waveguide Antenna With 20 dBi Gain and 12.4 GHz to 18 GHz, Integrated Cage-Style Mount

### FM1WAN062-20



#### Features

- WR-62 Rectangular Waveguide Interface
- 12.4 GHz to 18 GHz
- 20 dBi Nominal Gain
- Square Cover Cover Flange
- Ku Band
- Ruggedized Aluminum Cage-Style Mount
- Integrates with Positioning Systems

#### Applications

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

#### Description

The FM1WAN062-20 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-62 horn antenna operates from 12.4 GHz to 18 GHz (Ku Band). This WR-62 standard gain horn has a Square Cover type flange and integrated cage-style mount. The mount is a ruggedized aluminum mounting solution that integrates with test and measurement positioning systems, ensuring precise alignment and protection of the antenna.

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-62 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Ku Band standard gain horn antenna can ship the same day to anywhere in the world. The WR-62 FM1WAN062-20 waveguide horn is part of over 40,000 RF, microwave and millimeter wave components available from Fairview Microwave.

#### Configuration

|              |        |
|--------------|--------|
| Design       | WR-62  |
| Polarization | Linear |

#### Electrical Specifications

| Description                      | Minimum | Typical | Maximum | Units   |
|----------------------------------|---------|---------|---------|---------|
| Frequency Range                  | 12.4    |         | 18      | GHz     |
| Nominal Gain                     |         | 20      |         | dBi     |
| Horizontal Half Power Beam Width |         | 17.5    |         | Degrees |
| Vertical Half Power Beam Width   |         | 17.3    |         | Degrees |
| VSWR                             |         | 1.3:1   |         |         |

#### Mechanical Specifications

|             |                        |
|-------------|------------------------|
| <b>Size</b> |                        |
| Length      | 2.44 in [61.98 mm]     |
| Width       | 2.44 in [61.98 mm]     |
| Height      | 9.84 in [249.94 mm]    |
| Weight      | 0.98355 lbs [446.13 g] |

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**Waveguide Interface**

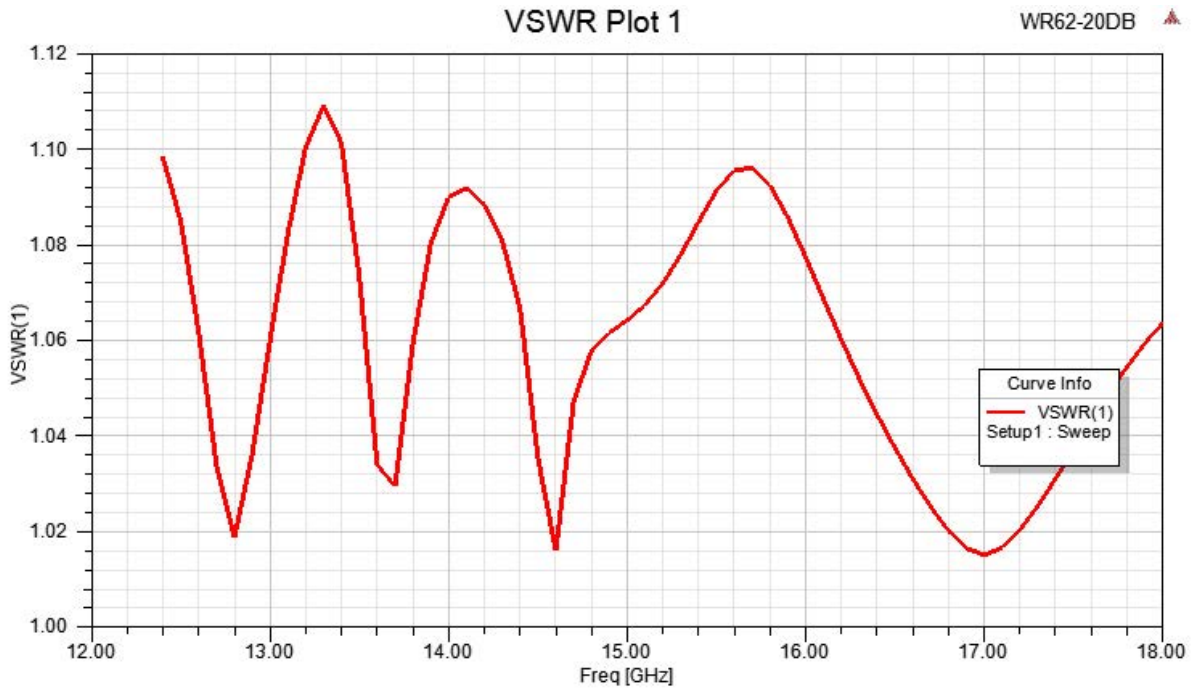
|                           |                |
|---------------------------|----------------|
| Waveguide Size            | WR-62          |
| Flange Type               | Square Cover   |
| Body Material and Plating | Aluminum, Gray |

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

**Plotted and Other Data**

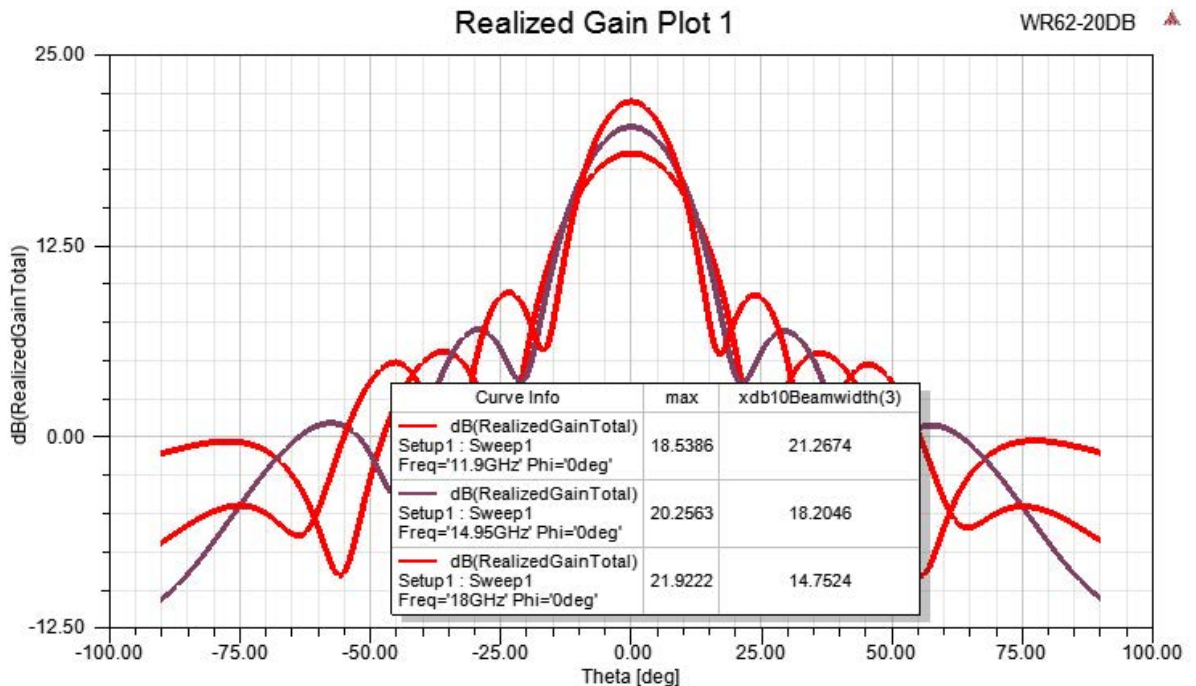
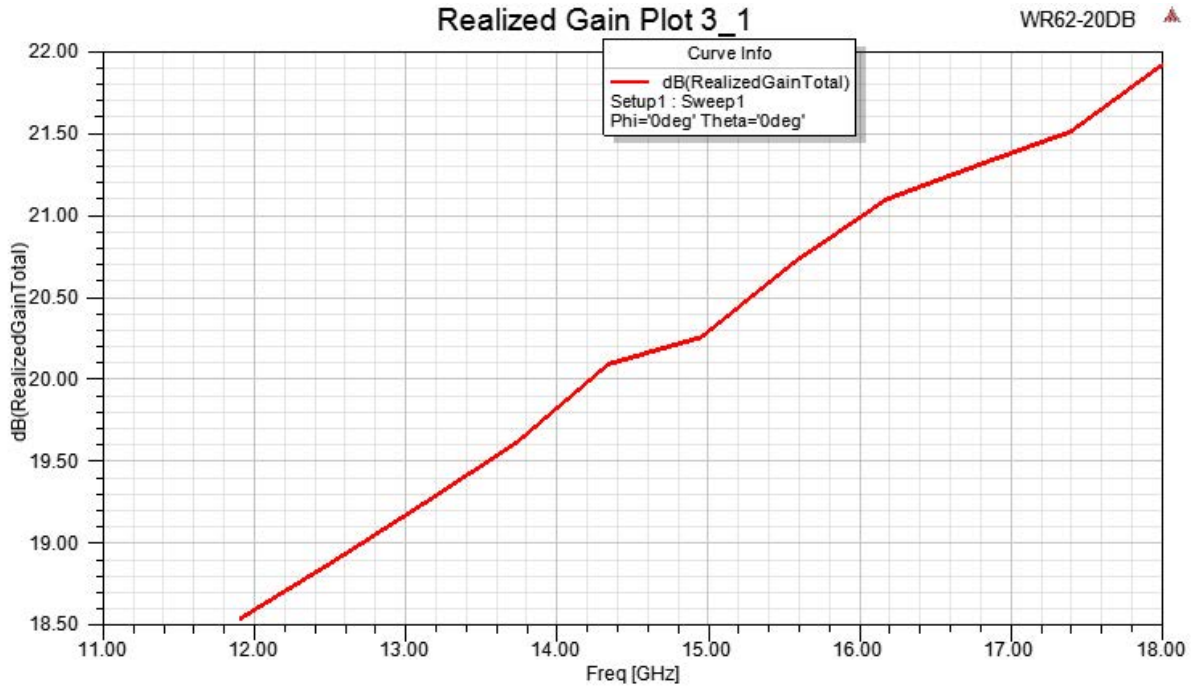
Notes:

**Typical Performance Data**



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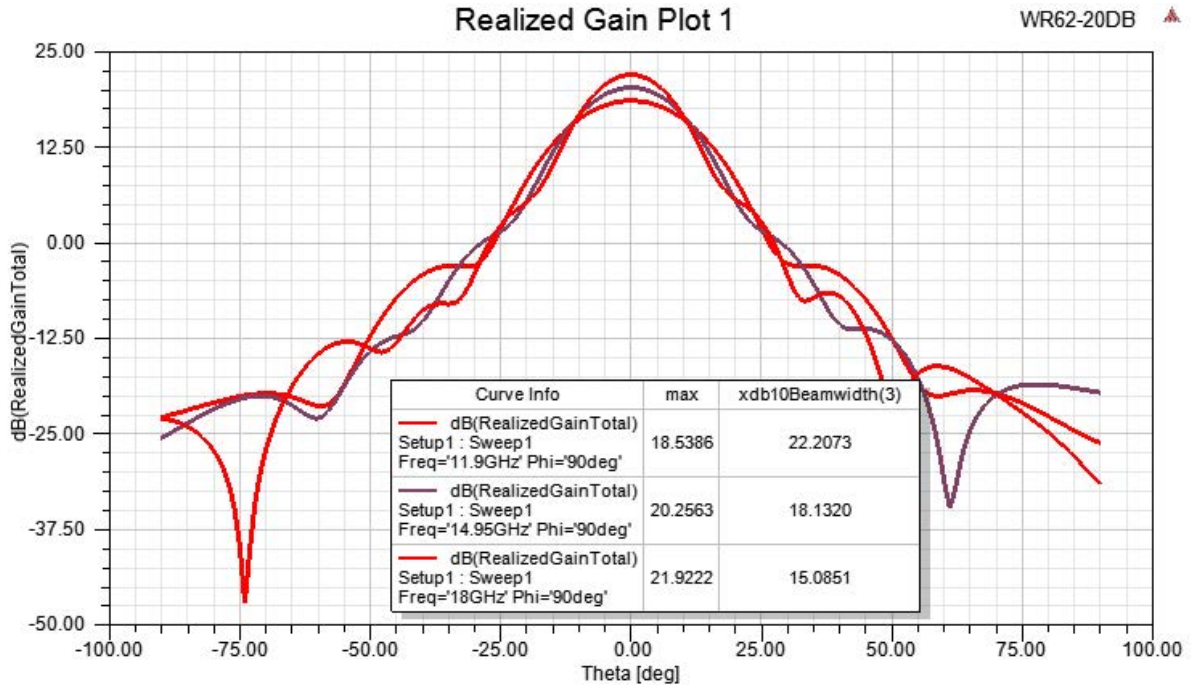
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WR-62 Waveguide Antenna With 20 dBi Gain and 12.4 GHz to 18 GHz, Integrated Cage-Style Mount from Fairview Microwave is in-stock and available to ship same-day. All of our RF/microwave products are available off-the-shelf from our ISO 9001:2008 certified facilities in Lewisville, Texas. Fairview Microwave is RF on-demand.

For additional information on this product, please click the following link: [WR-62 Waveguide Antenna With 20 dBi Gain and 12.4 GHz to 18 GHz, Integrated Cage-Style Mount FM1WAN062-20](#)

URL: <https://www.fairviewmicrowave.com/wr-62-waveguide-antenna-12.4-ghz-to-18-ghz-frequency-range-20-dbi-gain-integrated-cage-style-mount-fm1wan062-20-p.aspx>

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# FM1WAN062-20 CAD Drawing

WR-62 Waveguide Antenna With 20 dBi Gain and 12.4 GHz to 18 GHz, Integrated Cage-Style Mount

