

## WR-51 Standard Gain Horn Antenna, Operating From 15 GHz to 22 GHz, 20 dBi Nominal Gain, with L Mount



### PE2WAN051-20

#### Features

- WR-51 Rectangular Waveguide Interface
- 15 GHz to 22 GHz
- 20 dBi Nominal Gain
- None Cover Flange
- Ku Band
- Pre-installed L Mount
- Integrates with Positioning Systems

#### Applications

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

#### Description

The PE2WAN051-20 Ku Band standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 20 dBi. This WR-51 standard gain horn has an pre-installed L mount. The Pasternack 20 dBi WR-51 horn antenna operates from 15 GHz to 22 GHz. The WR-51 PE2WAN051-20 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 Pasternack.

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. Pasternack's WR-51 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-28 standard gain horn antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

#### Configuration

|              |        |
|--------------|--------|
| Design       | WR-51  |
| Polarization | Linear |

#### Electrical Specifications

| Description                      | Minimum | Typical | Maximum | Units   |
|----------------------------------|---------|---------|---------|---------|
| Frequency Range                  | 15      |         | 22      | GHz     |
| Nominal Gain                     |         | 20      |         | dBi     |
| Horizontal Half Power Beam Width |         | 17.5    |         | Degrees |
| Vertical Half Power Beam Width   |         | 17.3    |         |         |
| VSWR                             |         | 1.3:1   |         |         |

#### Mechanical Specifications

|             |                       |
|-------------|-----------------------|
| <b>Size</b> |                       |
| Length      | 14.772 in [375.21 mm] |
| Width       | 7 in [177.8 mm]       |
| Height      | 6.7 in [170.18 mm]    |
| Weight      | 1.058 lbs [479.9 g]   |

#### Waveguide Interface

|                           |                |
|---------------------------|----------------|
| Waveguide Size            | WR-51          |
| Flange Type               | Square Cover   |
| Body Material and Plating | Aluminum, Gray |

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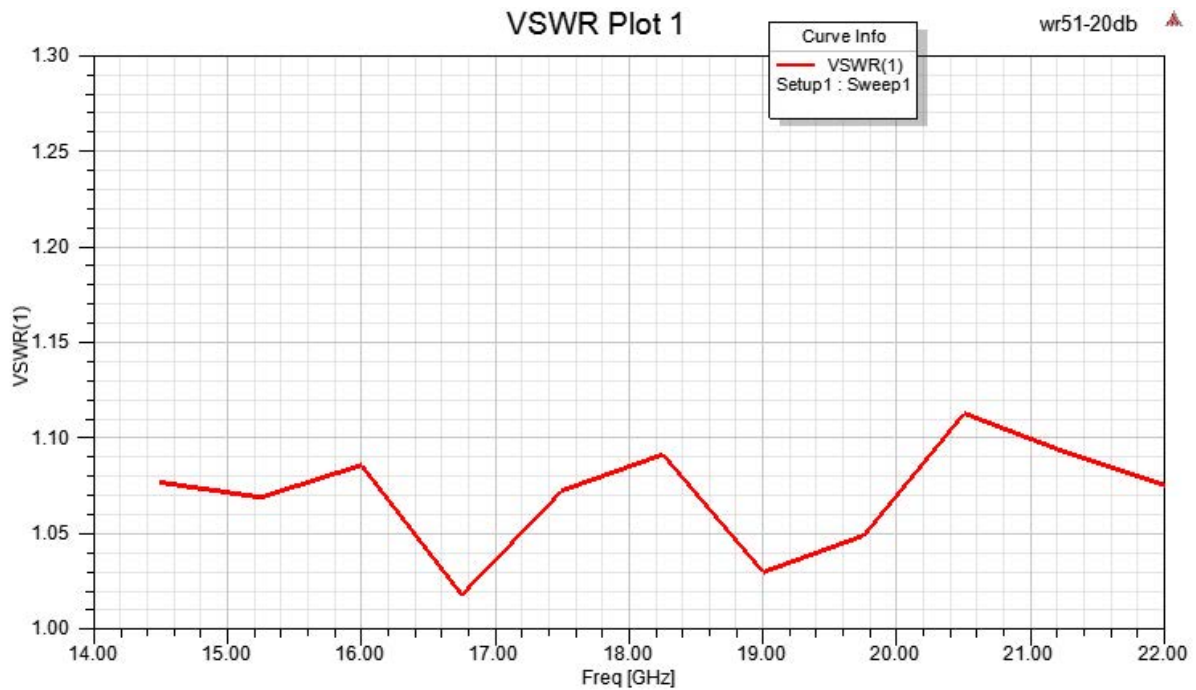
## PE2WAN051-20

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

### Plotted and Other Data

Notes:

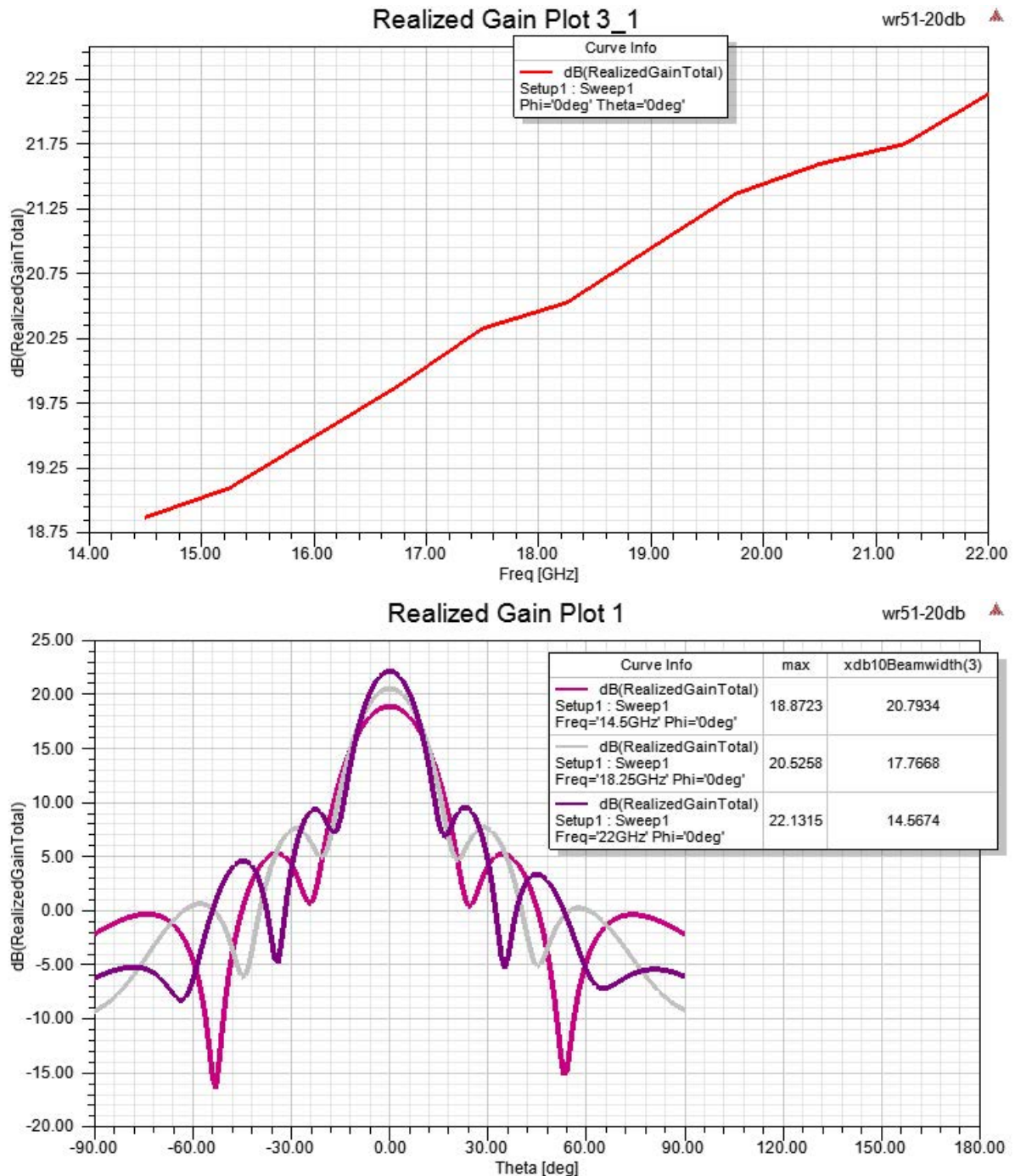
### Typical Performance Data



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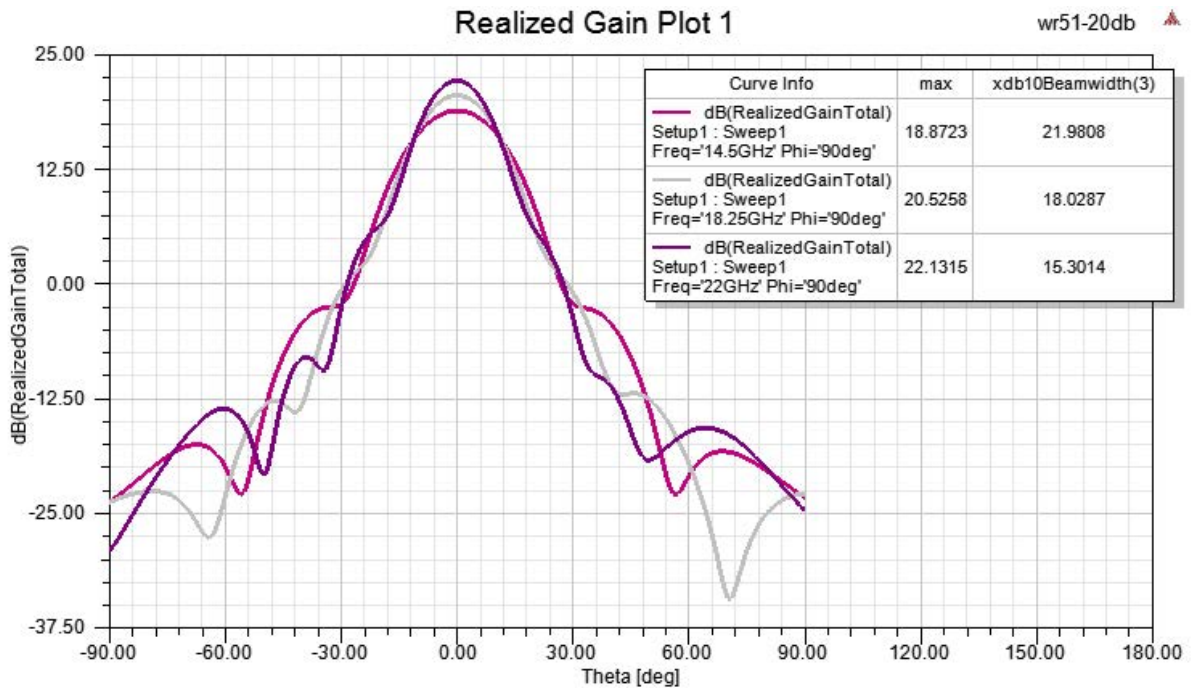
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WR-51 Standard Gain Horn Antenna, Operating From 15 GHz to 22 GHz, 20 dBi Nominal Gain, with L Mount from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-51 Waveguide Antenna, 15 GHz to 22 GHz Frequency Range, 20 dBi Gain, with L Mount PE2WAN051-20](https://www.pasternack.com/wr-51-waveguide-gain-horn-antenna-20dbi-square-flange-pe2wan051-20-p.aspx)

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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. Pasternack Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE2WAN051-20 CAD Drawing

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