



WR-510 Waveguide Standard Gain Horn Antenna Operating From 1.45 GHz to 2.2 GHz, 15 dBi Gain with CPR-510F Flange

## Waveguide Antennas Technical Data Sheet

**PEWAN510-15**

### Features

- 1450 MHz to 2200 MHz
- Linearly Polarized
- 15 dBi Nominal Gain

- WR-510 with CPR-510F Flange
- Powder Coated Aluminum

### Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Testing

- Radome Testing
- EMC measurement
- Satellite Antenna Testing

### Description

The PEWAN510-15 standard horn antenna (also known as waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. This WR-510 waveguide horn features an CPR-510F waveguide flange and operates from 1450 to 2200 MHz.

Our PEWAN510-15 standard gain horn antenna has a nominal gain of 15 dBi with a typical input VSWR of 1.5:1. Pasternack's waveguide horns are available in 10, 15, and 20 dBi models with varying frequency ranges to suit the application needs.

Waveguide antennas, such as the PEWAN510-15 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-510 waveguide antennas are part of over 40,000 RF, microwave, and millimeter wave components from Pasternack available worldwide and Ship same day.

### Configuration

Design  
Pattern  
Polarization

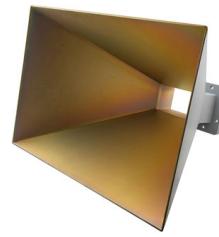
WR-510 Standard Gain Horn  
Directional  
Linear

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.45		2.2	GHz
Nominal Gain		15		dBi
Horizontal Half Power Beam Width		30		Degrees
Vertical Half Power Beam Width		30		Degrees
VSWR			1.5:1	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-510 Waveguide Standard Gain Horn Antenna Operating From 1.45 GHz to 2.2 GHz, 15 dBi Gain with CPR-510F Flange PEWAN510-15](#)

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### Mechanical Specifications

#### Size

Length

14.4 in [365.76 mm]

Width

18 in [457.2 mm]

Height

12.4 in [314.96 mm]

Weight

7.5 lbs [3.4 kg]

#### Waveguide Interface

Waveguide Size

WR-510

Flange Type

CPR-510F

Body Material and Plating

Aluminum

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

**Plotted and Other Data**

**Typical Performance Data**



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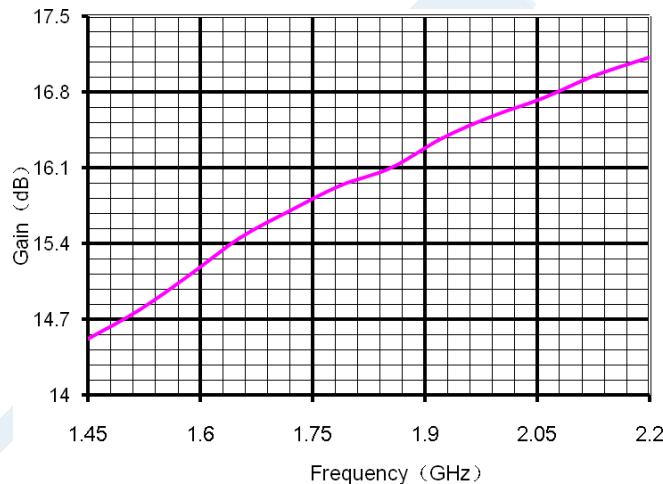


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Gain VS Frequency Curve:



Freq	Gain	Freq	Gain
1.45 GHz	14.52 dB	1.86 GHz	16.10 dB
1.52 GHz	14.78 dB	1.92 GHz	16.37 dB
1.59 GHz	15.10 dB	1.99 GHz	16.58 dB
1.65 GHz	15.45 dB	2.06 GHz	16.74 dB
1.72 GHz	15.70 dB	2.13 GHz	16.95 dB
1.79 GHz	15.94 dB	2.20 GHz	17.13 dB

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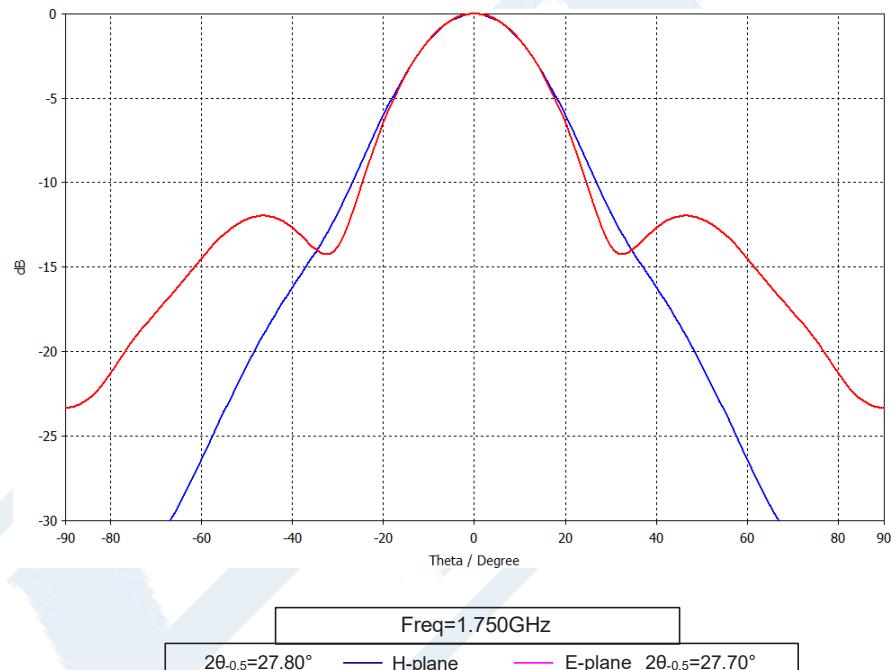


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Typical Pattern:



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URL: <https://www.pasternack.com/wr-510-waveguide-standard-gain-horn-antenna-operating-from-1.45-ghz-to-2.2-ghz-15-dbi-gain-with-cpr-510f-flange-pewan510-15-p.aspx>

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# PEWAN510-15 CAD Drawing

WR-510 Waveguide Standard Gain Horn Antenna Operating From 1.45 GHz to 2.2 GHz, 15 dBi Gain with CPR-510F Flange

