



WR-770 Waveguide Standard Gain Horn Antenna Operating From 960 MHz to 1460 MHz, 15 dBi Gain with CPR-770F Flange

Waveguide Antennas Technical Data Sheet

PEWAN770-15

Features

- 960 MHz to 1460 MHz
- Linearly Polarized
- 15 dBi Nominal Gain
- WR-770 with CPR-770F Flange
- Powder Coated Aluminum

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Testing
- Radome Testing
- EMC measurement
- Satellite Antenna Testing

Description

The PEWAN770-15 standard horn antenna (also known as waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. This WR-770 waveguide horn features an CPR-770F waveguide flange and operates from 960 to 1460 MHz.

Our PEWAN770-15 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 PEWAN770-15 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-770 waveguide antennas are part of over 40,000 RF, microwave, and millimeter wave components from Pasternack available worldwide and Ship same day.

Configuration

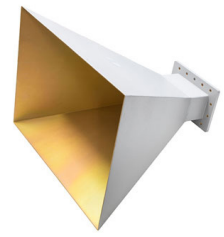
Design
Pattern
Polarization

WR-770 Standard Gain Horn
Directional
Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	960		1.46	MHz
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-770 Waveguide Standard Gain Horn Antenna Operating From 960 MHz to 1460 MHz, 15 dBi Gain with CPR-770F Flange PEWAN770-15](#)



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Mechanical Specifications

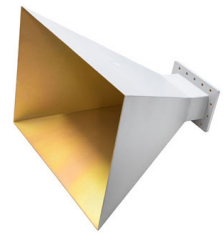
Size

Length	23.6 in [599.44 mm]
Width	27.6 in [701.04 mm]
Height	18.9 in [480.06 mm]
Weight	19 lbs [8.62 kg]

Waveguide Interface

Waveguide Size	WR-770
Flange Type	CPR-770F
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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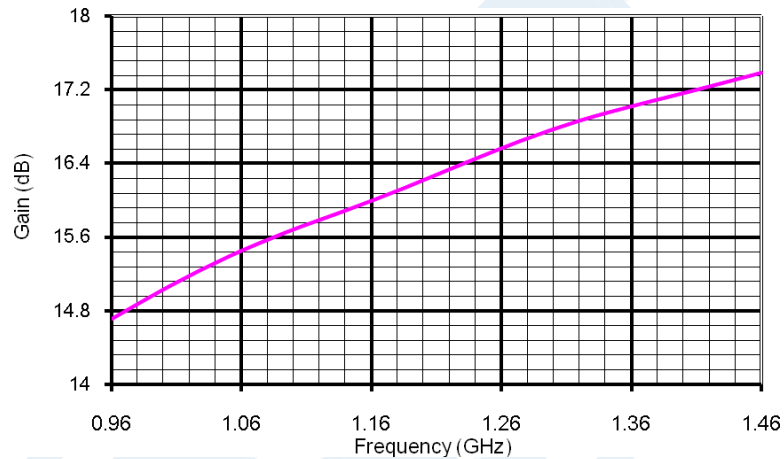


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Gain VS Frequency Curve:



Freq	Gain	Freq	Gain
0.96 GHz	14.71 dB	1.23 GHz	16.40 dB
1.01 GHz	15.08 dB	1.28 GHz	16.65 dB
1.05 GHz	15.39 dB	1.32 GHz	16.87 dB
1.10 GHz	15.66 dB	1.37 GHz	17.04 dB
1.14 GHz	15.89 dB	1.41 GHz	17.20 dB
1.19 GHz	16.14 dB	1.46 GHz	17.39 dB

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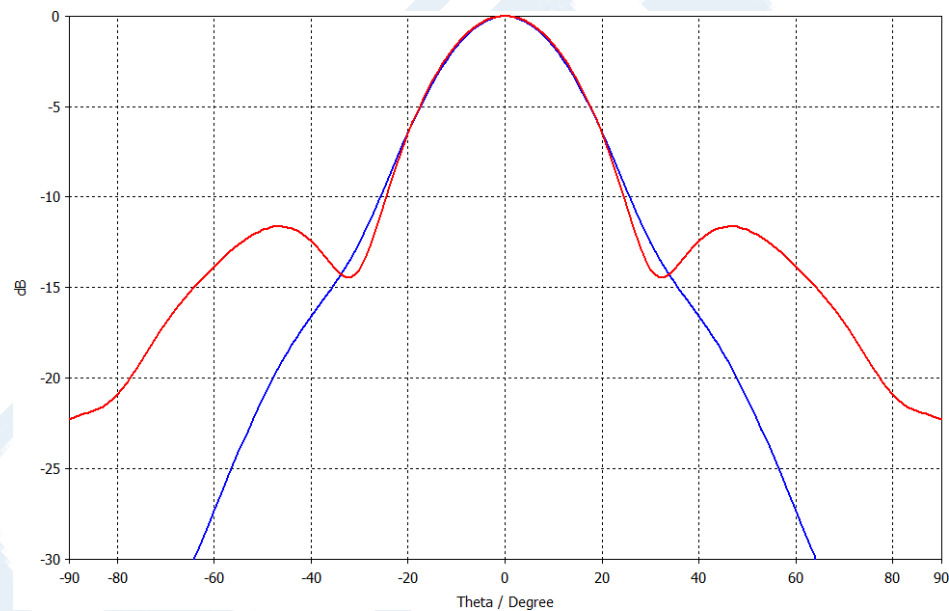


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Typical Pattern:



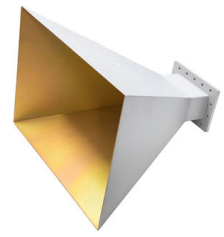
Freq=1.16GHz

$2^{\theta_{0.5}}=27.0^{\circ}$

— H-plane

— E-plane $2^{\theta_{0.5}}=27.7^{\circ}$

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WR-770 Waveguide Standard Gain Horn Antenna Operating From 960 MHz to 1460 MHz, 15 dBi Gain with CPR-770F Flange 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.

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URL: <https://www.pasternack.com/wr-770-waveguide-standard-gain-horn-antenna-operating-from-960-mhz-to-1460-mhz-15-dbi-gain-with-cpr-770f-flange-pewan770-15-p.aspx>

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