

WR-770 Waveguide Standard Gain Horn Antenna Operating
From 960 MHz to 1460 MHz, 10 dBi Gain with CPR-770F Flange

Waveguide Antennas Technical Data Sheet

PEWAN770-10

Features

- 960 MHz to 1460 MHz
- Linearly Polarized
- 10 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 PEWAN770-10 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 PEWAN770-10 standard gain horn antenna has a nominal gain of 10 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 PEWAN770-10 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 with are part of over 40,000 RF, microwave, and millimeter wave components from Pasternack available worldwide and Ship same day.

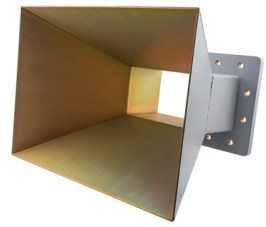
Configuration

Design	WR-770 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	960		1.46	MHz
Nominal Gain		10		dBi
Horizontal Half Power Beam Width		55		Degrees
Vertical Half Power Beam Width		55		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, 10 dBi Gain with CPR-770F Flange PEWAN770-10](#)



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Mechanical Specifications

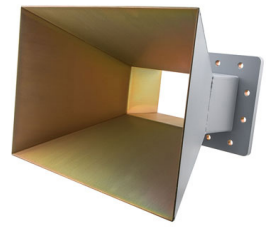
Size

Length	11 in [279.4 mm]
Width	12.4 in [314.96 mm]
Height	9.3 in [236.22 mm]
Weight	7.7 lbs [3.49 kg]

Waveguide Interface

Waveguide Size	WR-770
Flange Type	CPR-770F
Body Material and Plating	Aluminum

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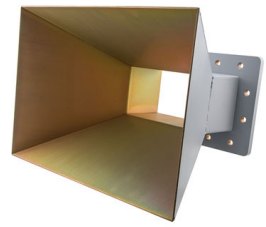
PEWAN770-10

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

Plotted and Other Data

Typical Performance Data

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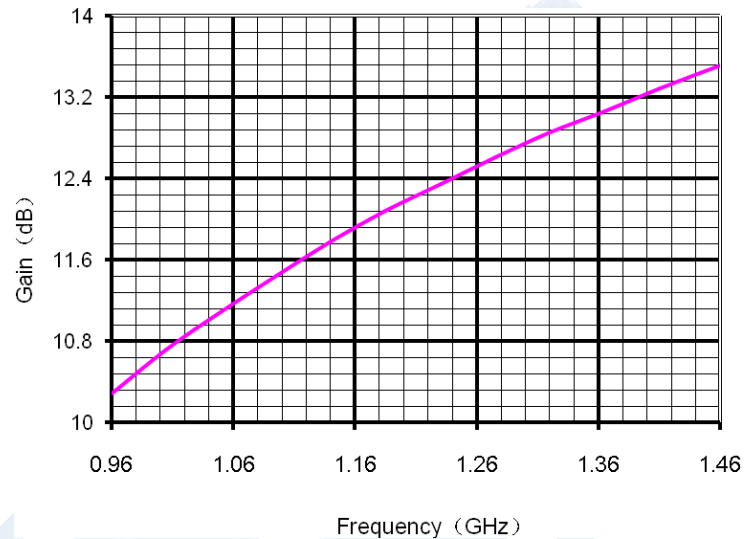


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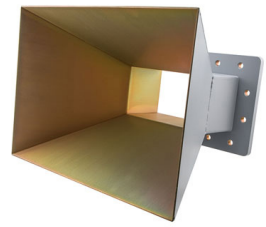
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Gain VS Frequency Curve:



Freq	Gain	Freq	Gain
0.96 GHz	10.28 dB	1.23 GHz	12.35 dB
1.01 GHz	10.72 dB	1.28 GHz	12.61 dB
1.05 GHz	11.09 dB	1.32 GHz	12.86 dB
1.10 GHz	11.45 dB	1.37 GHz	13.07 dB
1.14 GHz	11.78 dB	1.41 GHz	13.29 dB
1.19 GHz	12.08 dB	1.46 GHz	13.52 dB

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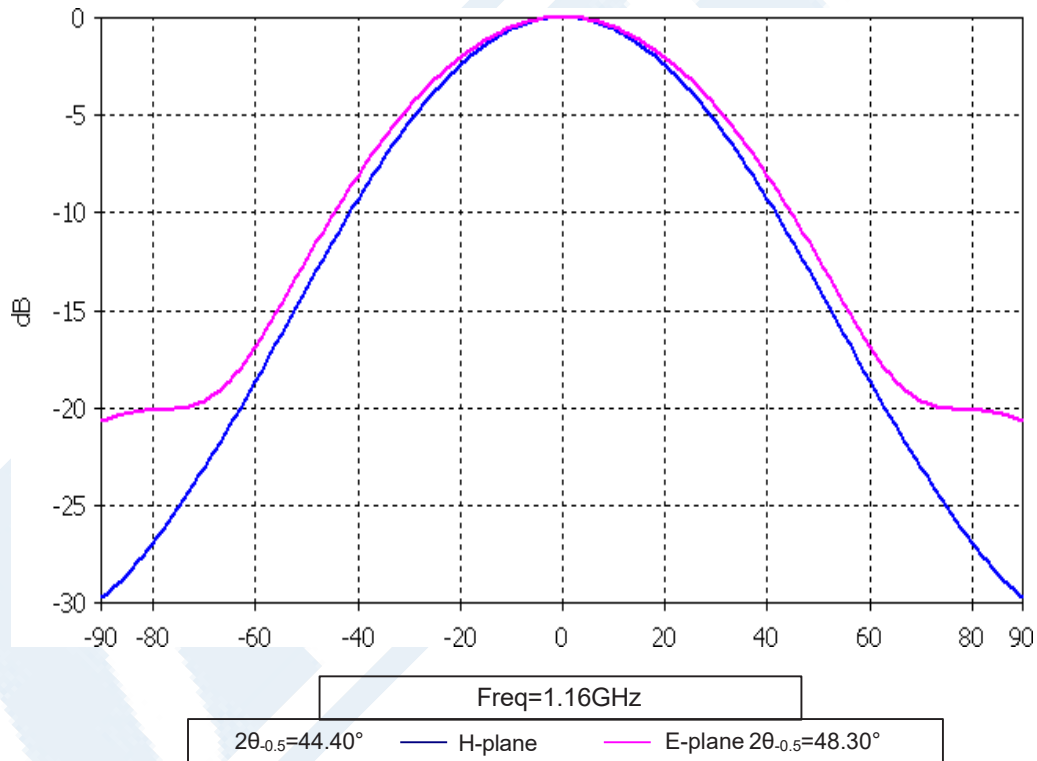


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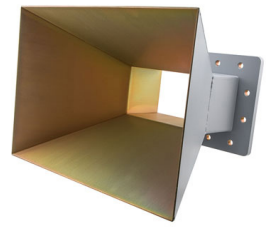
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Typical Pattern:



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WR-770 Waveguide Standard Gain Horn Antenna Operating From 960 MHz to 1460 MHz, 10 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.

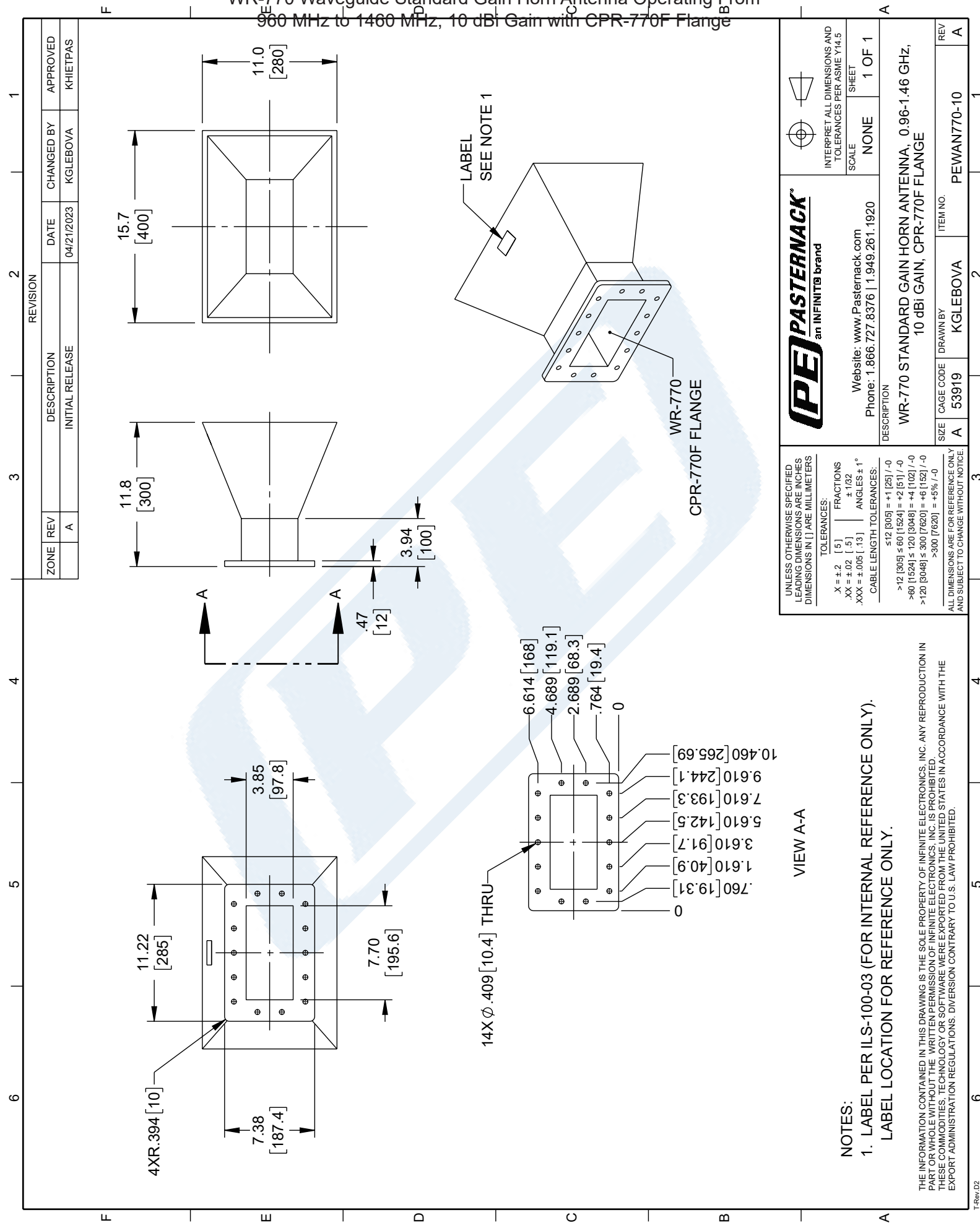
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URL: <https://www.pasternack.com/wr-770-waveguide-standard-gain-horn-antenna-operating-from-960-mhz-to-1460-mhz-10-dbi-gain-with-cpr-770f-flange-pewan770-10-p.aspx>

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

PEWAN770-10 CAD Drawing

WR-770 Waveguide Standard Gain Horn Antenna Operating From 960 MHz to 1460 MHz, 10 dBi Gain with CPR-770F Flange



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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 X = ±.2 [5] FRACTIONS ±.132
 .XX = ±.02 [.5] ANGLES ± 1°
 .XXX = ±.005 [.13] CABLE LENGTH TOLERANCES:
 ≤12 [305] = ±.125 [-0
 >12 [305] ≤ 60 [1524] = +.2 [5.1] / -0
 >60 [1524] ≤ 120 [3048] = +.4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +.6 [152] / -0
 >300 [7620] = +.6% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE

SCALE NONE SHEET 1 OF 1

DESCRIPTION
 WR-770 STANDARD GAIN HORN ANTENNA, 0.96-1.46 GHZ, 10 dBi GAIN, CPR-770F FLANGE

ITEM NO. PEWAN770-10

DRAWN BY KGLEBOVA

CAGE CODE A 53919