

WR-650 Waveguide Standard Gain Horn Antenna Operating
From 1.13 GHz to 1.73 GHz, 15 dBi Gain with CPR-650F Flange

Waveguide Antennas Technical Data Sheet

PEWAN650-15

Features

- 1130 MHz to 1730 MHz
- Linearly Polarized
- 15 dBi Nominal Gain
- WR-650 with CPR-650F Flange
- Powder Coated Aluminum

Applications

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

Description

The PEWAN650-15 standard horn antenna (also known as waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. This WR-650 waveguide horn features an CPR-650F waveguide flange and operates from 1130 to 1730 MHz.

Our PEWAN650-15 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 PEWAN650-15 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-650 waveguide antennas are part of over 40,000 RF, microwave, and millimeter wave components from Pasternack available worldwide and Ship same day.

Configuration

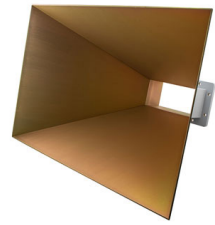
Design
Pattern
Polarization

WR-650 Standard Gain Horn
Directional
Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1.13		1.73	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-650 Waveguide Standard Gain Horn Antenna Operating From 1.13 GHz to 1.73 GHz, 15 dBi Gain with CPR-650F Flange PEWAN650-15](#)



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Mechanical Specifications

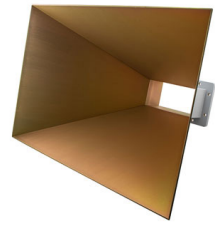
Size

Length	16.9 in [429.26 mm]
Width	21.7 in [551.18 mm]
Height	15 in [381 mm]
Weight	11 lbs [4.99 kg]

Waveguide Interface

Waveguide Size	WR-650
Flange Type	CPR-650F
Body Material and Plating	Aluminum

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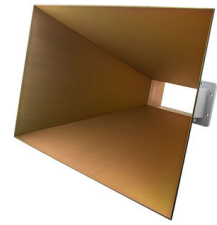
PEWAN650-15

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

Plotted and Other Data

Typical Performance Data

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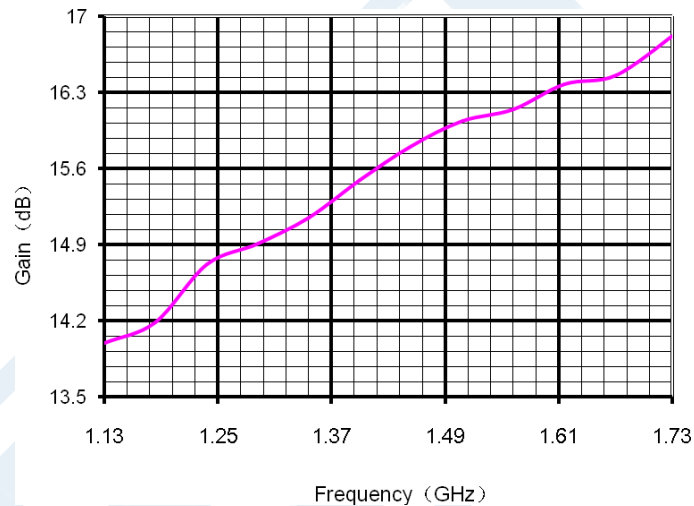


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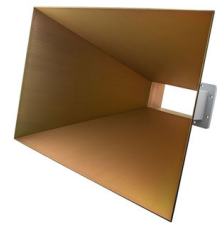
PEWAN650-15

Gain VS Frequency Curve:



Freq	Gain	Freq	Gain
1.13 GHz	13.99 dB	1.45 GHz	15.81 dB
1.18 GHz	14.19 dB	1.51 GHz	16.04 dB
1.24 GHz	14.72 dB	1.56 GHz	16.14 dB
1.29 GHz	14.91 dB	1.62 GHz	16.38 dB
1.35 GHz	15.15 dB	1.67 GHz	16.46 dB
1.40 GHz	15.49 dB	1.73 GHz	16.82 dB

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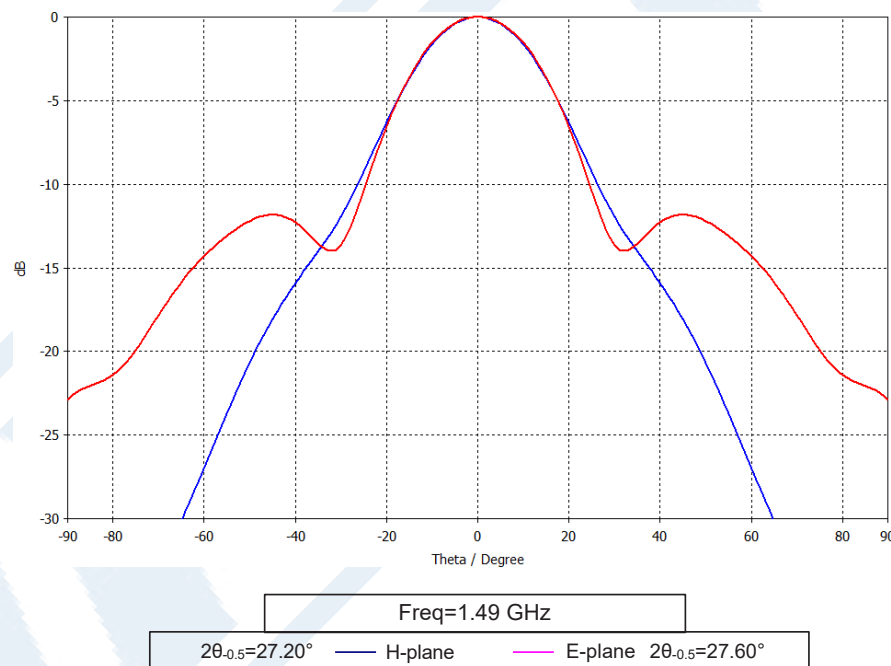


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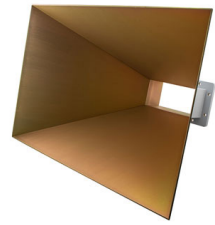
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Typical Pattern:



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WR-650 Waveguide Standard Gain Horn Antenna Operating From 1.13 GHz to 1.73 GHz, 15 dBi Gain with CPR-650F 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-650 Waveguide Standard Gain Horn Antenna Operating From 1.13 GHz to 1.73 GHz, 15 dBi Gain with CPR-650F Flange PEWAN650-15](https://www.pasternack.com/wr-650-waveguide-standard-gain-horn-antenna-operating-from-1.13-ghz-to-1.73-ghz-15-dbi-gain-with-cpr-650f-flange-pewan650-15)

URL: <https://www.pasternack.com/wr-650-waveguide-standard-gain-horn-antenna-operating-from-1.13-ghz-to-1.73-ghz-15-dbi-gain-with-cpr-650f-flange-pewan650-15-p.aspx>

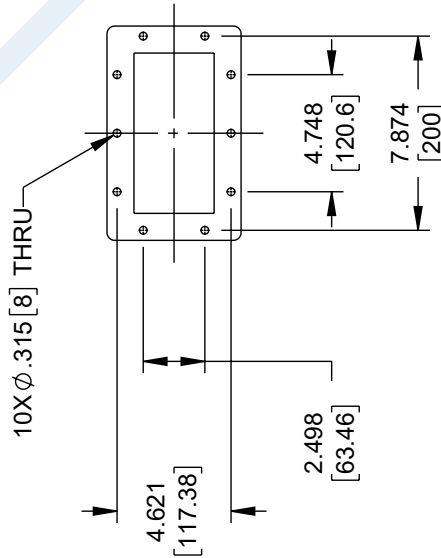
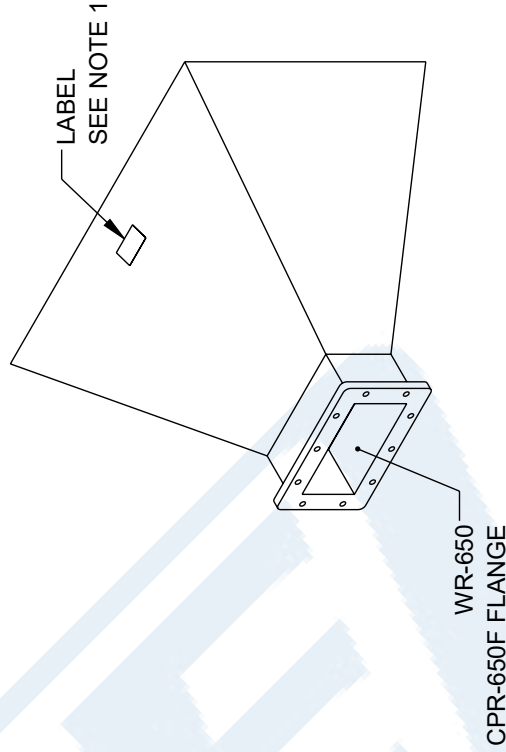
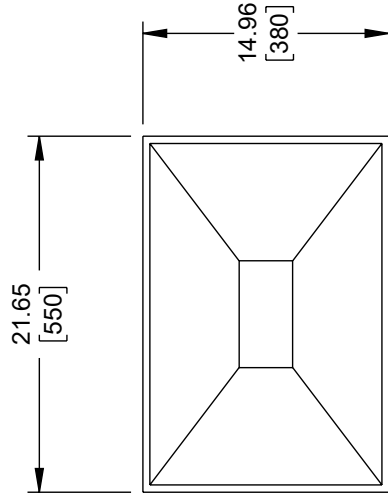
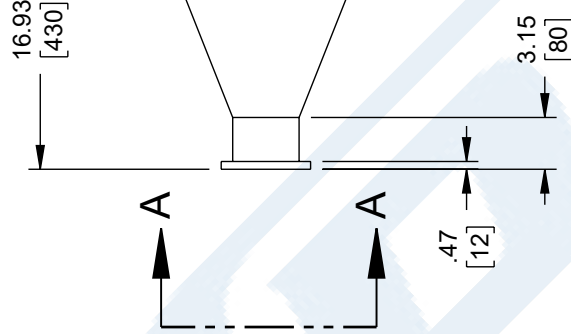
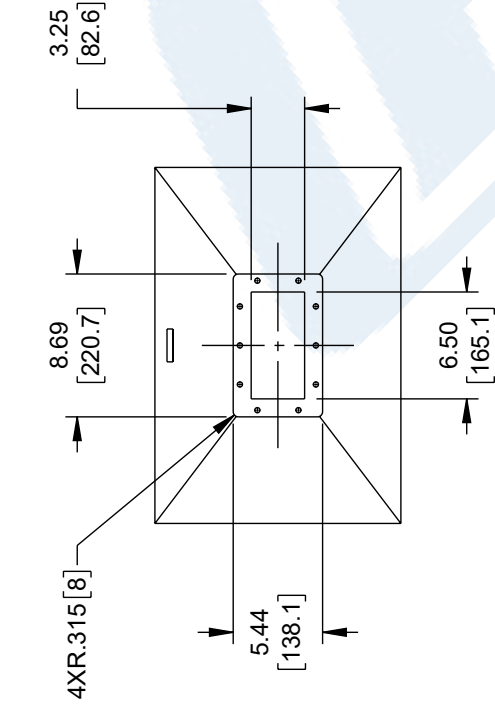
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PEWAN650-15 CAD Drawing

WR-650 Waveguide Standard Gain Horn Antenna Operating From
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VIEW A-A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	
X = ±.2 [5]	FRACTIONS
.XX = ±.02 [.5]	± 1/32
.XXX = ±.005 [.13]	ANGLES ± 1°
CABLE LENGTH TOLERANCES:	
≤ 12 [305]	± 1 [25] / -0
> 12 [305] ≤ 60 [1524]	± 2 [51] / -0
> 60 [1524] ≤ 120 [3048]	± 4 [102] / -0
> 120 [3048] ≤ 300 [7620]	± 6 [152] / -0
> 300 [7620]	± 5% / -0
ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE	



Website: www.Pasternack.com
Phone: 1.866.727.8376 | 1.949.261.1920

DESCRIPTION

WR-650 STANDARD GAIN HORN ANTENNA, 1.13-1.73 GHz,
15 dBi Gain, CPR-650F FLANGE

INTERPRET ALL DIMENSIONS AND
TOLERANCES PER ASME Y14.5

SCALE
NONE

SHEET
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NOTES:

1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY).
LABEL LOCATION FOR REFERENCE ONLY.

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