

WR-1500 Waveguide Standard Gain Horn Antenna
 Operating From 490 MHz to 750 MHz, 10 dBi
 Gain with N Type Female Connector

Specialty Waveguide Antennas Technical Data Sheet

PEWAN1500-10NF

Features

- 490 MHz to 750 MHz
- Linearly Polarized
- 10 dBi Nominal Gain
- WR-1500 with N Female coaxial connector
- Powder Coated Aluminum

Applications

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

Description

The PEWAN1500-10NF standard horn antenna (also known as waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. This WR-1500 waveguide horn features an N Female coaxial connector and operates from 490 to 750 MHz.

Our PEWAN1500-10NF 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 PEWAN1500-10NF 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-1500 waveguide antennas with are part of over 40,000 RF, microwave, and millimeter wave components from Pasternack available worldwide and Ship same day.

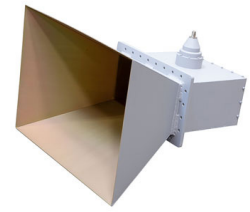
Configuration

Design	WR-1500 Standard Gain Horn
Pattern	Directional
Polarization	Linear
RF Connector	N Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	490		750	MHz
Nominal Gain		10		dBi
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-1500 Waveguide Standard Gain Horn Antenna Operating From 490 MHz to 750 MHz, 10 dBi Gain with N Type Female Connector PEWAN1500-10NF](#)



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Mechanical Specifications

Size

Length	27.6 in [701.04 mm]
Width	27.6 in [701.04 mm]
Height	19.7 in [500.38 mm]
Weight	44 lbs [19.96 kg]
RF Connector	N Female

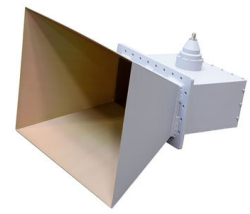
Environmental Specifications

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

Plotted and Other Data

Notes:

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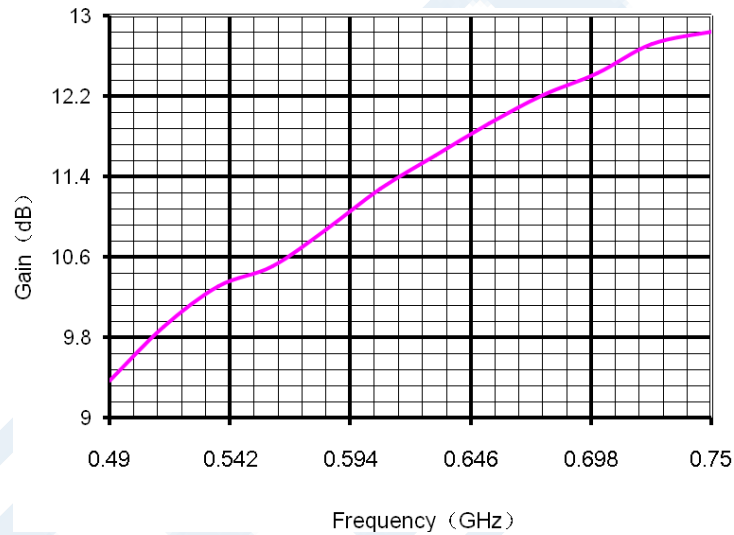
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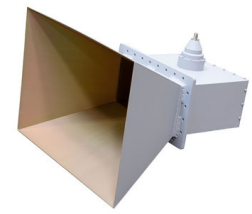
Typical Performance Data

Gain VS Frequency Curve:



Freq	Gain	Freq	Gain
0.49 GHz	9.37 dB	0.63 GHz	11.61 dB
0.51 GHz	9.91 dB	0.65 GHz	11.93 dB
0.54 GHz	10.31 dB	0.68 GHz	12.22 dB
0.56 GHz	10.51 dB	0.70 GHz	12.43 dB
0.58 GHz	10.88 dB	0.72 GHz	12.72 dB
0.61 GHz	11.28 dB	0.75 GHz	12.84 dB

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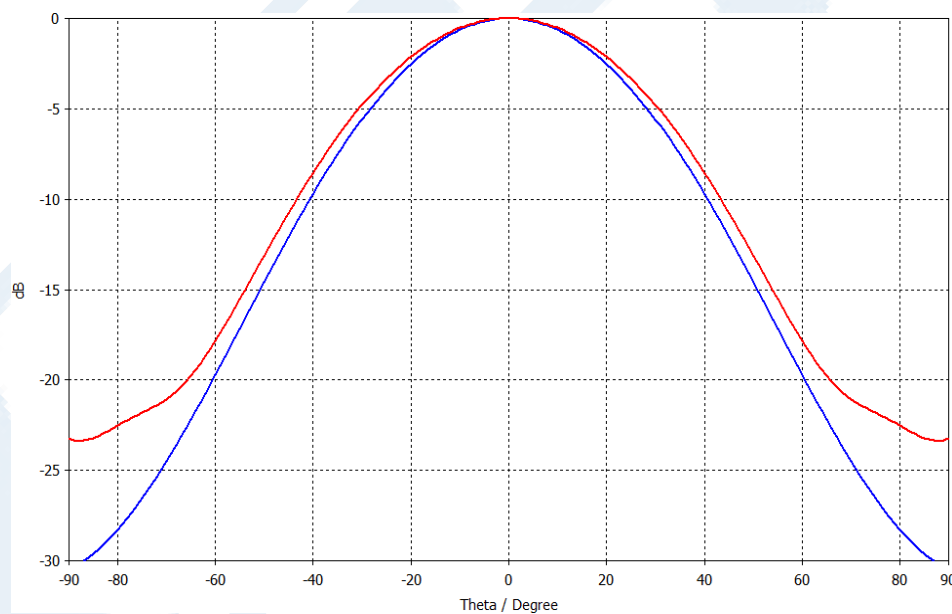


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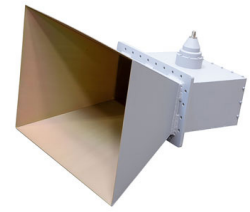
Typical Pattern:



Freq=0.646GHz

2θ_{0.5}=43.70° H-plane E-plane 2θ_{0.5}=47.50°

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WR-1500 Waveguide Standard Gain Horn Antenna Operating From 490 MHz to 750 MHz, 10 dBi Gain with N Type Female Connector 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.

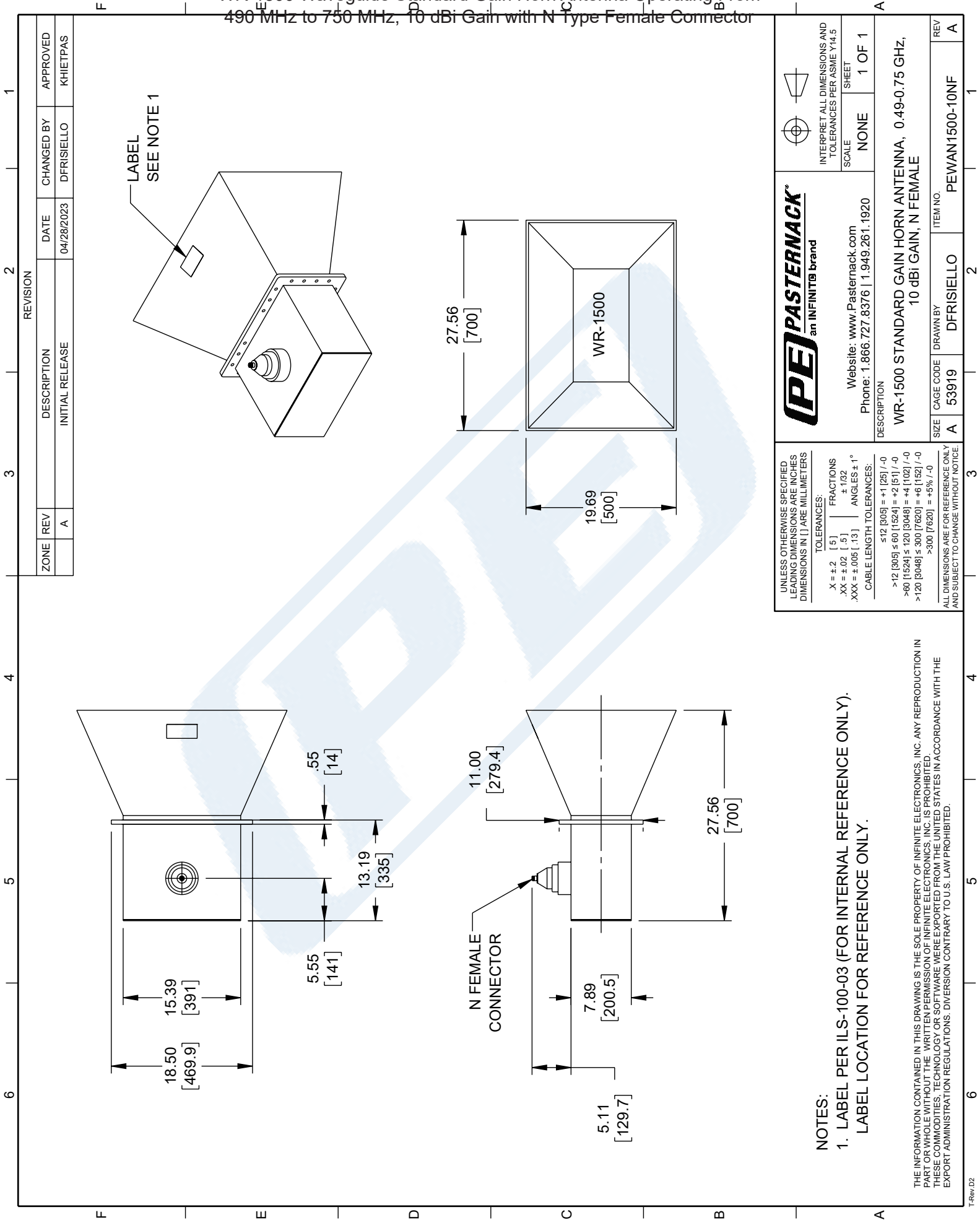
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-1500 Waveguide Standard Gain Horn Antenna Operating From 490 MHz to 750 MHz, 10 dBi Gain with N Type Female Connector PEWAN1500-10NF](https://www.pasternack.com/wr-1500-waveguide-standard-gain-horn-antenna-operating-from-490-mhz-to-750-mhz-10-dbi-gain-with-n-type-female-connector-pewan1500-10nf)

URL: <https://www.pasternack.com/wr-1500-waveguide-standard-gain-horn-antenna-operating-from-490-mhz-to-750-mhz-10-dbi-gain-with-n-type-female-connector-pewan1500-10nf-p.aspx>

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PEWAN1500-10NF CAD Drawing

WR-1500 Waveguide Standard Gain Horn Antenna Operating From 490 MHz to 750 MHz, 10 dBi Gain with N Type Female Connector



ZONE		REV	DESCRIPTION	DATE	CHANGED BY	APPROVED
		A	INITIAL RELEASE	04/28/2023	DFRISIELLO	KHIETPAS

REVISION	
1	
2	
3	
4	
5	
6	

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

TOLERANCES:
 X = ±.2 [5] FRACTIONS ± 1/32
 .XX = ±.02 [.5] ANGLES ± 1°
 .XXX = ±.005 [.13]

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

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 Phone: 1.866.727.8376 | 1.949.261.1920

SCALE: NONE SHEET: 1 OF 1

INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5

DESCRIPTION: WR-1500 STANDARD GAIN HORN ANTENNA, 0.49-0.75 GHz, 10 dBi GAIN, N FEMALE

SIZE: A CAGE CODE: A 53919 DRAWN BY: DFRISIELLO ITEM NO.: PEWAN1500-10NF REV: A

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

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