

WR-90 Standard Gain Horn with 15 dBi gain,
End Launch N Female connector

Technical Data Sheet

PEWAN090-15ELNF

Features

- 8.2 GHz to 12.4 GHz
- WR-90 Waveguide Band
- 15 dBi Nominal Gain
- N Female End Launch Connector

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test
- Solutions
- Radar Cross Section
- Satellite Antenna Testing

Description

The PEWAN090-15ELNF standard gain horn antenna (also known as waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. This standard gain horn is mated with a WR-90 to N Female End Launch waveguide to coaxial adapter and operates from 8.2 GHz to 12.4 GHz.

Our PEWAN090-15ELNF standard gain horn antenna has a nominal gain of 15 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 31 dB and 32 dB respectively. Pasternack's N Female End Launch to WR-90 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PEWAN090-15ELNF 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-90 waveguide antennas with N Female End Launch interface is part of over 40,000 RF, microwave and millimeter wave components from Pasternack available worldwide and Ship same day.

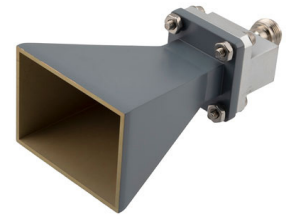
Configuration

- Design WR-90 Standard Gain Horn
- Coaxial Interface N Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
Waveguide Standard Gain Horn				
Gain		15		dBi
Horizontal Half Power Beam Width		31		Degrees
Vertical Half Power Beam Width		32		Degrees
Waveguide to Coaxial Adapter				
Input VSWR			1.25:1	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-90 Standard Gain Horn with 15 dBi gain, End Launch N Female connector PEWAN090-15ELNF](#)



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Mechanical Specifications

Size

Length	5.166 in [131.22 mm]
Width	2.439 in [61.95 mm]
Height	1.755 in [44.58 mm]
Weight	0.4045 lbs [183.48 g]

RF Connector

Type	N Female
Specification	End Launch

Waveguide Interface

Waveguide Size	WR-90
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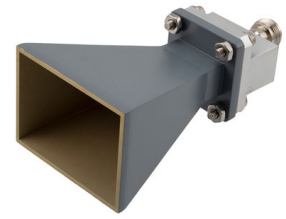
Environmental Specifications

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

Plotted and Other Data

Notes:

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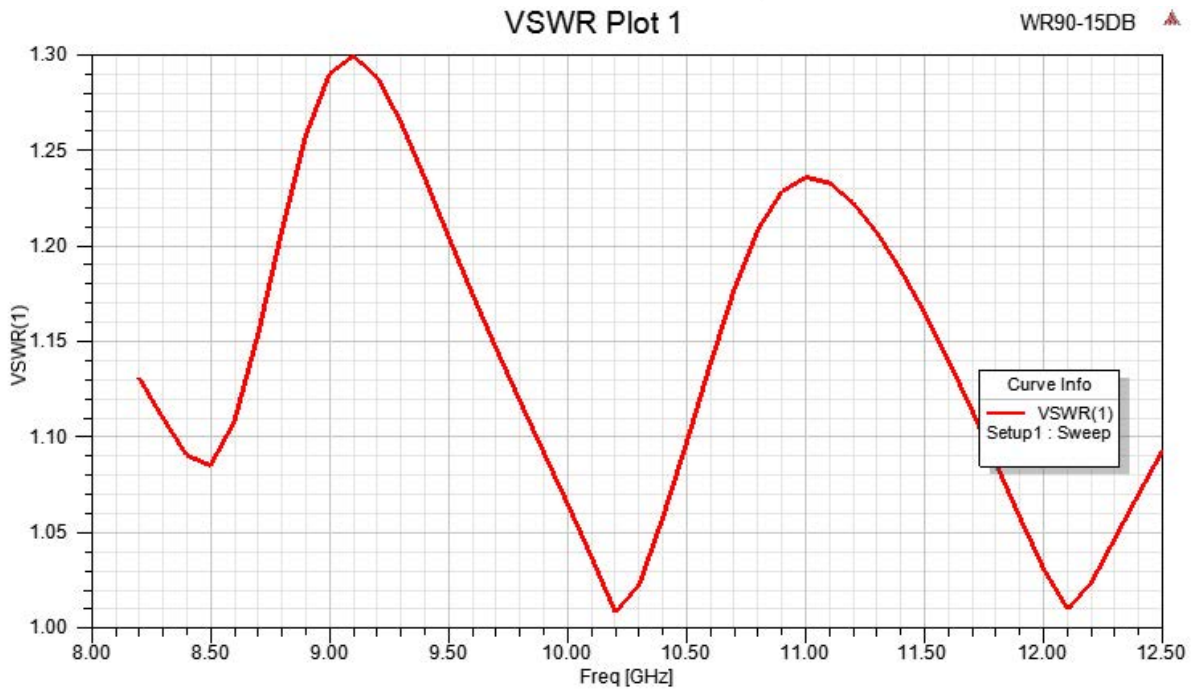


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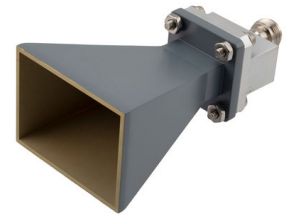
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Typical Performance Data



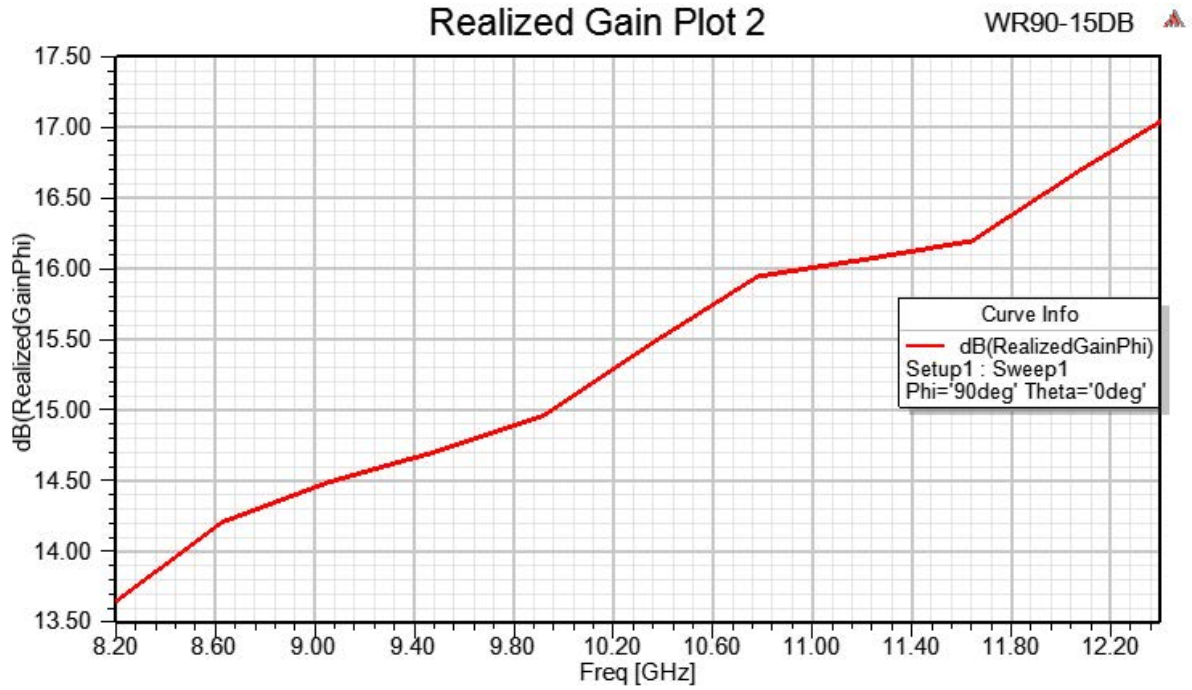
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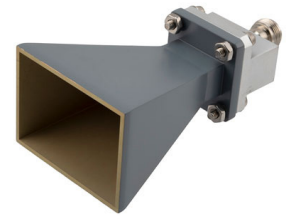
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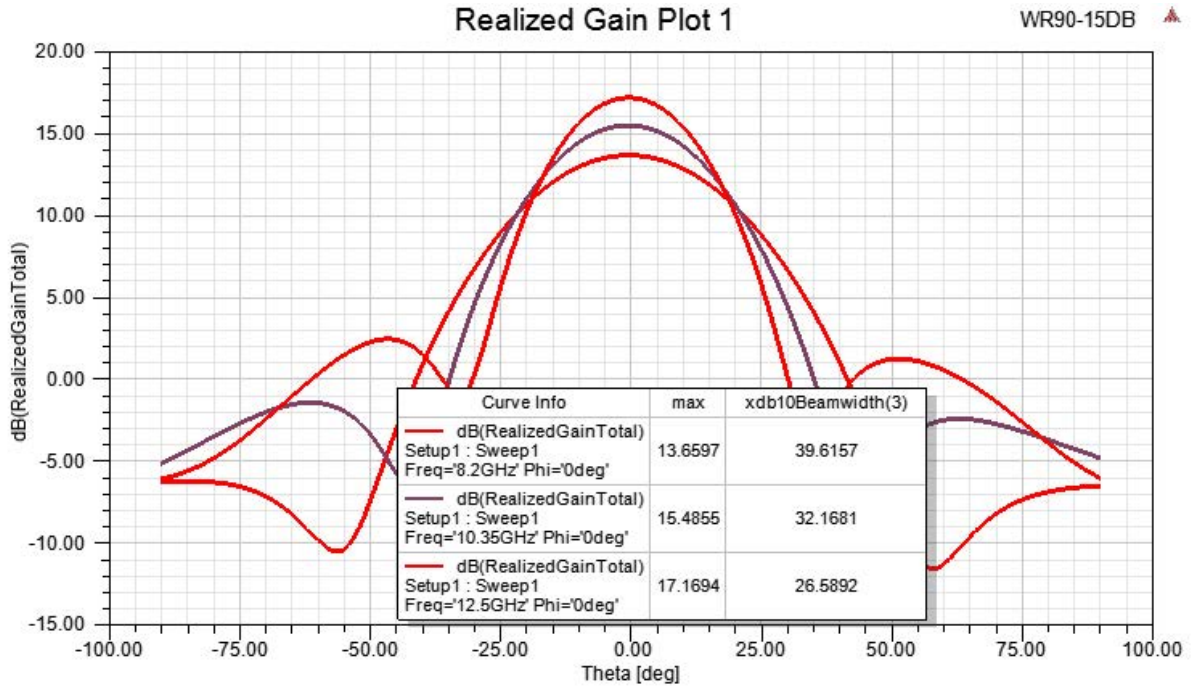
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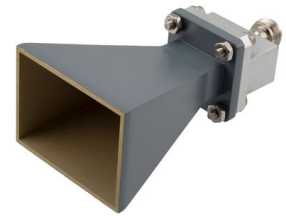
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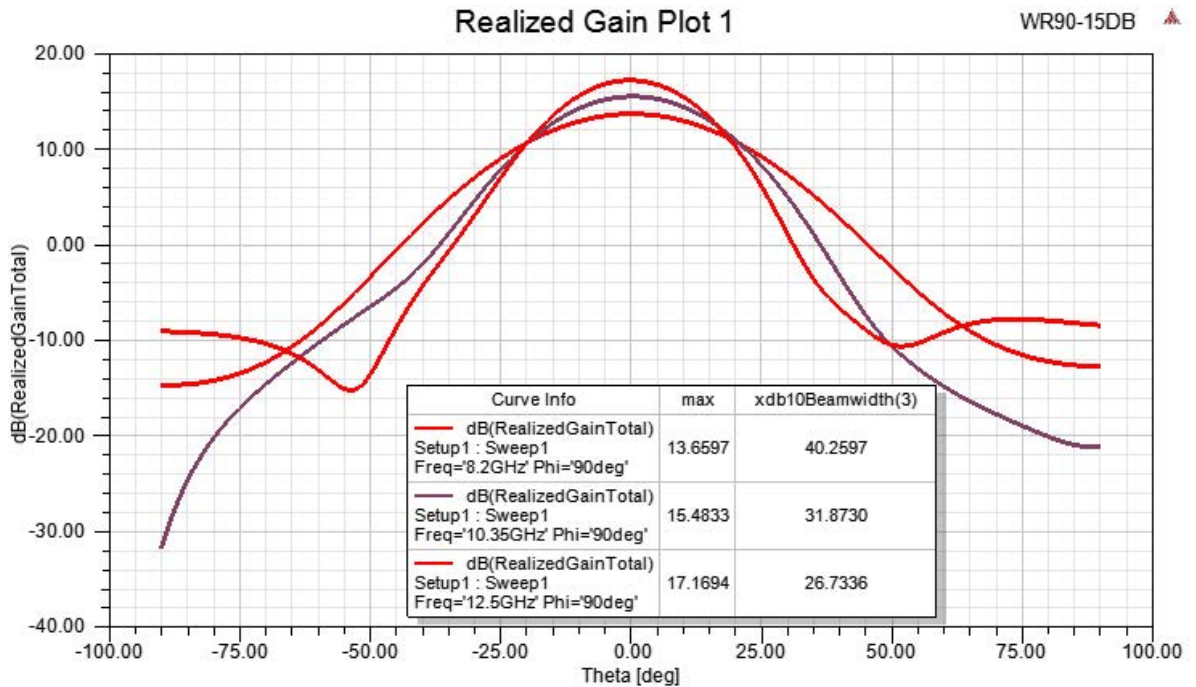
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WR-90 Standard Gain Horn with 15 dBi gain, End Launch N Female connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part 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-90 Standard Gain Horn with 15 dBi gain, End Launch N Female connector PEWAN090-15ELNF](#)

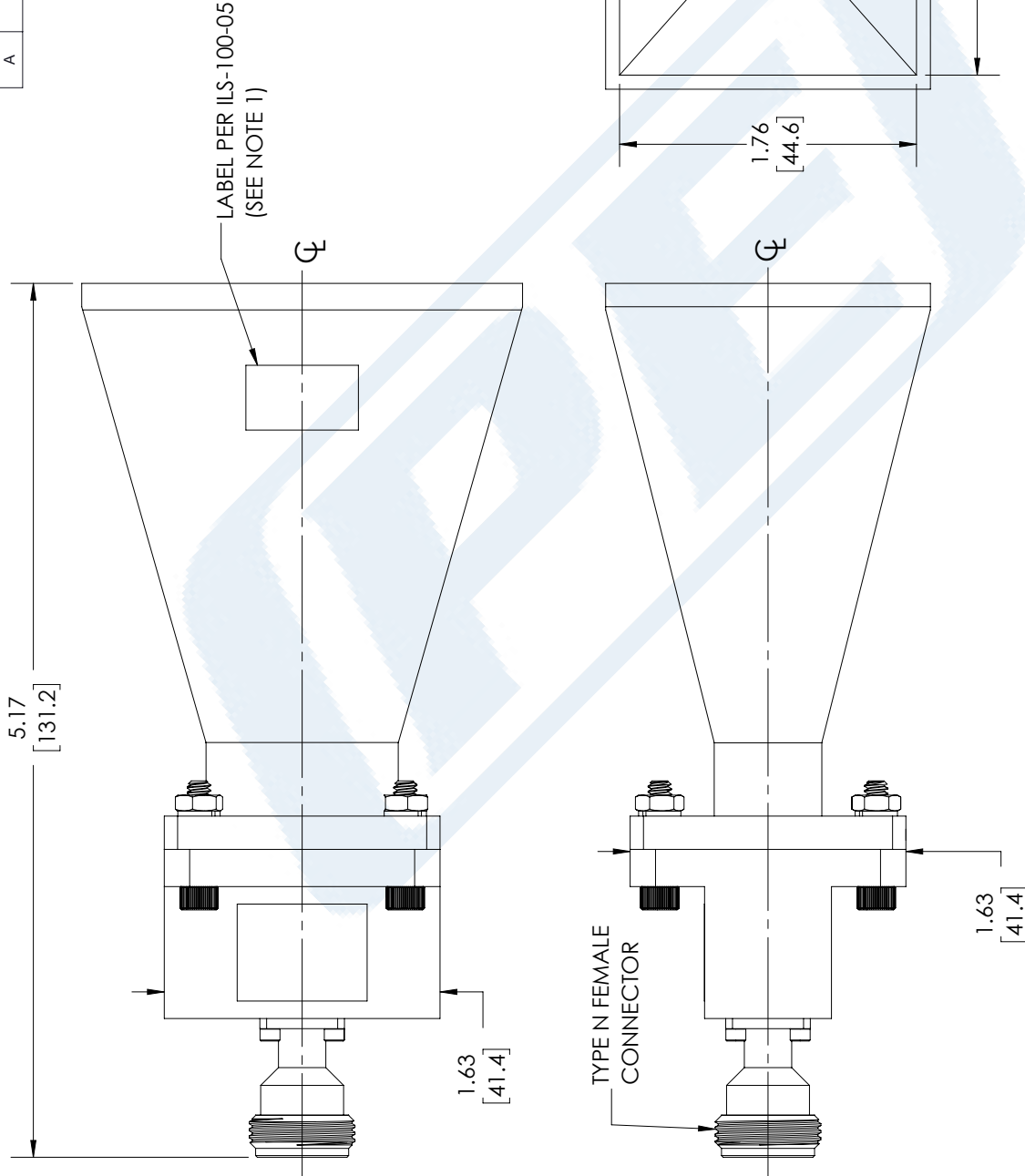
URL: <https://www.pasternack.com/wr-90-waveguide-standard-gain-horn-antenna-15-dbi-n-pewan090-15elnf-p.aspx>

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.

PEWAN090-15ELNF CAD Drawing

WR-90 Standard Gain Horn with 15 dBi gain, End Launch N Female connector

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	10/04/2021	KHIETPAS



PE PASTERNAK
an INFINITE brand

Pasternack Enterprises, Inc.
P. O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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

TOLERANCES:

.X = ±.2	[5.08]	FRACTIONS	± 1/32
.XX = ±.02	[.51]	ANGLES ± 1°	
.XXX = ±.005	[.13]		

CABLE LENGTH (L) TOLERANCES:

L ≤ 12	[305]	= +1 [25] / -0
12 [305] < L ≤ 60	[1524]	= +2 [51] / -0
60 [1524] < L ≤ 120	[3048]	= +4 [102] / -0
120 [3048] < L ≤ 300	[7620]	= +6 [152] / -0
300 [7620] < L		= +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SIZE [CAGE CODE] DRAWN BY ITEM NO.

A 53919 BPUCHASKI PEWAN090-15ELNF REV A

- NOTES:**
- LABEL PER ILS-100-05 (FOR INTERNAL REFERENCE ONLY)
LABEL LOCATION FOR REFERENCE ONLY

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