



Technical Data Sheet

PEWAN090-20ELNF

Features

- 8.2 GHz to 12.4 GHz
- · WR-90 Waveguide Band
- **Applications**
 - Antenna Measurements
 - Wireless Communication
 - Laboratory Use

- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test
- Solutions
- · Radar Cross Section
- Satellite Antenna Testing

Description

The PEWAN090-20ELNF 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 PEWAN090-20ELNF standard gain horn antenna has a nominal gain of 20 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 17.5 dB and 17.3 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 PEWAN090-20ELNF 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 Coaxial Interface WR-90 Standard Gain Horn N Female

20 dBi Nominal Gain

N Female End Launch Connector

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|----------------------------------|---------|---------|---------|---------|
| requency Range | 8.2 | | 12.4 | GHz |
| /aveguide Standard Gain Horn | | | | |
| Gain | | 20 | | dBi |
| Horizontal Half Power Beam Width | | 17.5 | | Degrees |
| Vertical Half Power Beam Width | | 17.3 | | Degrees |
| aveguide 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 20 dBi gain, End Launch N Female connector PE-**WAN090-20ELNF**





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Mechanical Specifications

Size

 Length
 11.19 in [284.23 mm]

 Width
 4.401 in [111.79 mm]

 Height
 3.265 in [82.93 mm]

 Weight
 0.6545 lbs [296.88 g]

RF Connector

Type N Female Specification End Launch

Waveguide Interface

Waveguide Size WR-90

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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PEWAN090-20ELNF REV 1



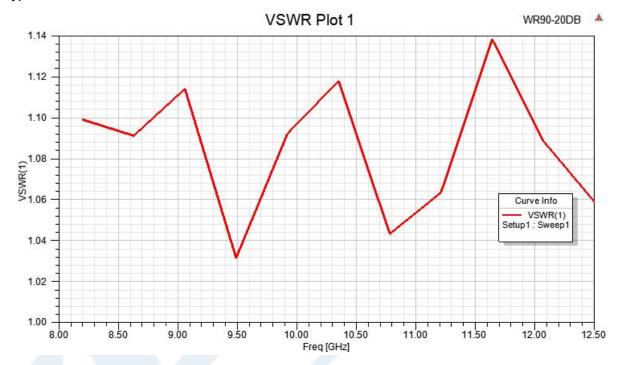




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Typical Performance Data



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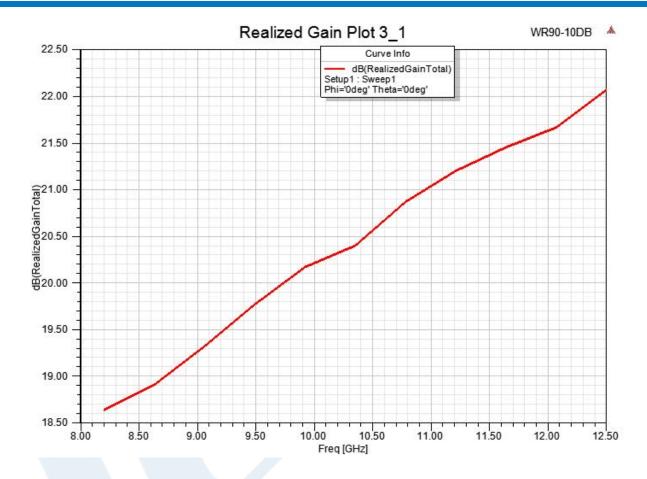






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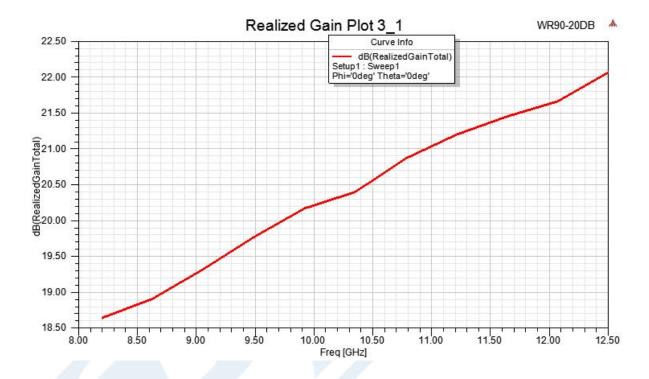






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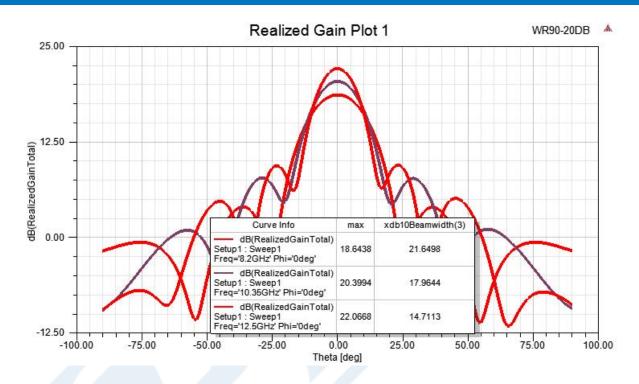






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WR-90 Standard Gain Horn with 20 dBi gain, End Launch N Female connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL:

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.

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PEWAN090-20ELNF CAD DrawingWR-90 Standard Gain Horn with 20 dBi gain, End Launch N Female connector

