PASTERNACK
an INFINITE brand

# WR-102 Standard Gain Horn with 10 dBi gain, End Launch N Female connector

## Technical Data Sheet PEWAN102-10ELNF

### Features

- 7 GHz to 11 GHz
- WR-102 Waveguide Band
- 10 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 PEWAN102-10ELNF 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-102 to N Female End Launch waveguide to coaxial adapter and operates from 7 GHz to 11 GHz.

Our PEWAN102-10ELNF standard gain horn antenna has a nominal gain of 10 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 52.1 dB and 51.6 dB respectively. Pasternack's N Female End Launch to WR-102 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PEWAN102-10ELNF 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-102 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-102 Standard Gain Horn |
| Coaxial Interface | N Female |

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | 7 | | 11 | GHz |
| **Waveguide Standard Gain Horn** | | | | |
| Gain | | 10 | | dBi |
| Horizontal Half Power Beam Width | | 52.1 | | Degrees |
| Vertical Half Power Beam Width | | 51.6 | | 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-102 Standard Gain Horn with 10 dBi gain, End Launch N Female connector PEWAN102-10ELNF

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
**Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 4.145 in [105.28 mm] |
| Width | 1.685 in [42.8 mm] |
| Height | 1.685 in [42.8 mm] |
| Weight | 0.307 lbs [139.25 g] |

**RF Connector**

| | |
|---|---|
| Type | N Female |
| Specification | End Launch |

**Waveguide Interface**

| | |
|---|---|
| Waveguide Size | WR-102 |

### Environmental Specifications

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

### Plotted and Other Data

Notes:

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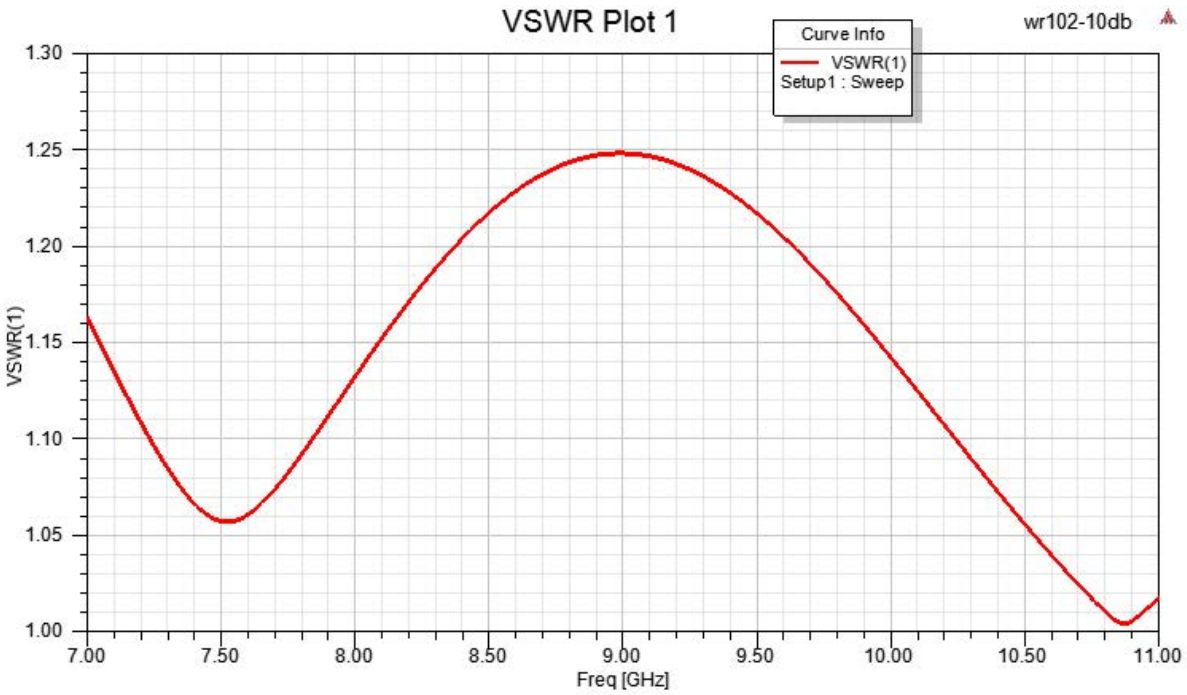
**Typical Performance Data**

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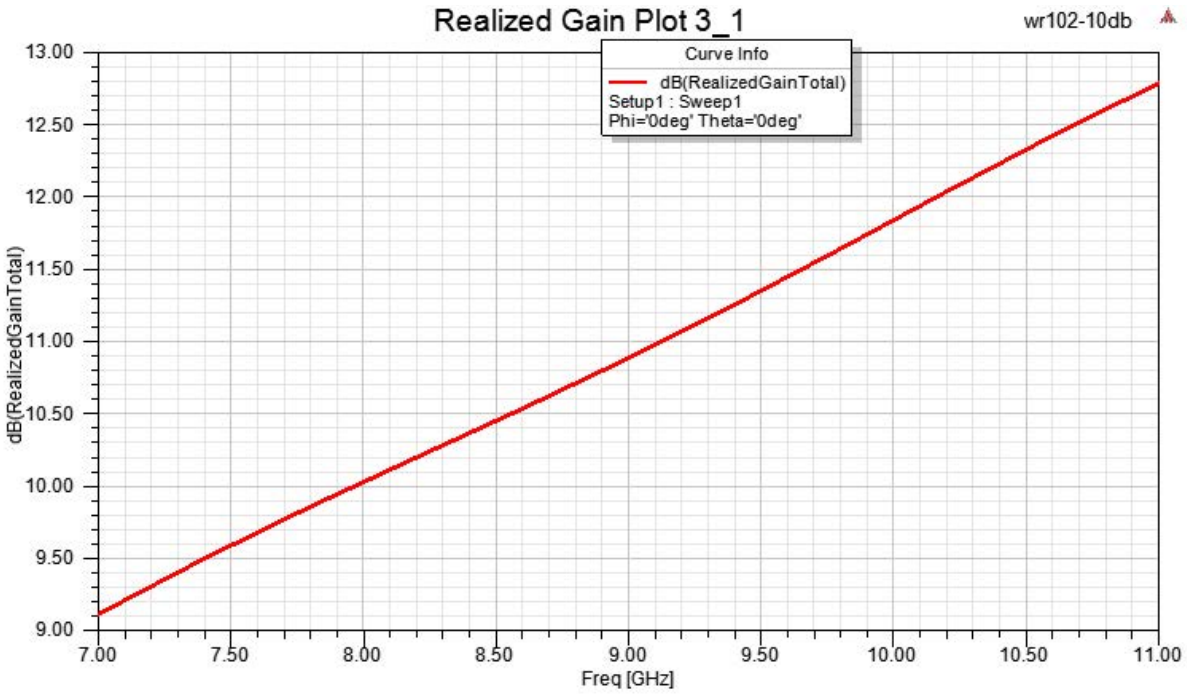


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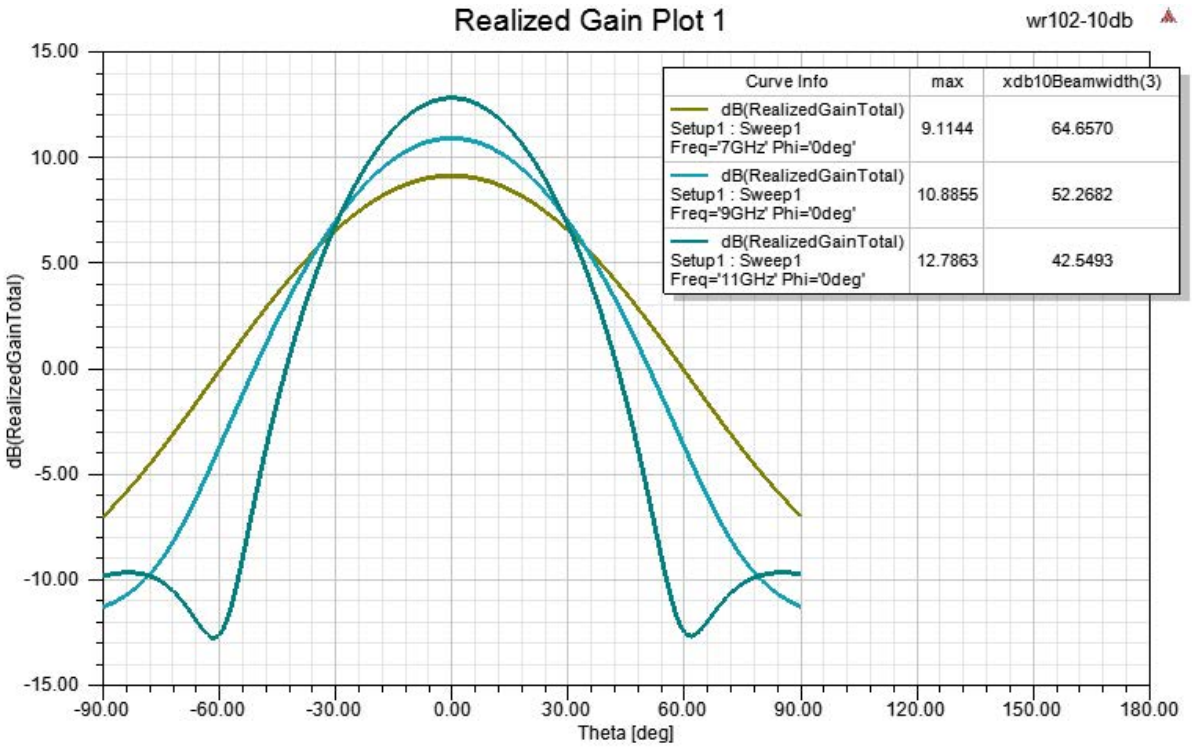


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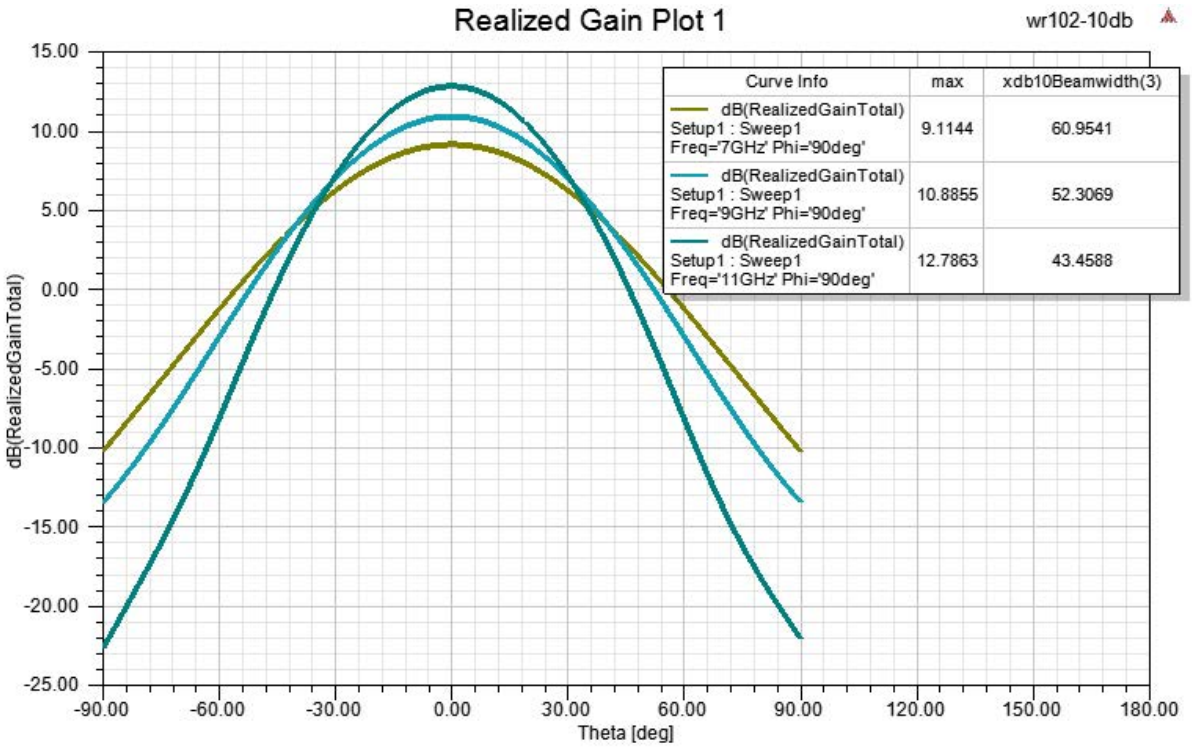


WR-102 Standard Gain Horn with 10 dBi gain, End Launch N Female connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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# PEWAN102-10ELNF CAD Drawing

WR-102 Standard Gain Horn with 10 dBi gain, End Launch N Female connector