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# WR-159 Standard Gain Horn with 10 dBi gain, N Female connector

## Technical Data Sheet PEWAN159-10NF

### Features

- 4.9 GHz to 7.05 GHz
- WR-159 Waveguide Band
- 10 dBi Nominal Gain
- N Female 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 PEWAN159-10NF 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-159 to N Female waveguide to coaxial adapter and operates from 4.9 GHz to 7.05 GHz.

Our PEWAN159-10NF 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 to WR-159 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PEWAN159-10NF 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-159 waveguide antennas with N Female interface is part of over 40,000 RF, microwave and millimeter wave components from Pasternack available worldwide and Ship same day.

### Configuration

| | |
|---|---|
| Design | WR-159 Standard Gain Horn |
| Coaxial Interface | N Female |

### Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|---|---|---|---|---|
| Frequency Range | 4.9 | | 7.05 | 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 | | | 1.3:1 | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-159 Standard Gain Horn with 10 dBi gain, N Female connector PEWAN159-10NF

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
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### Mechanical Specifications

**Size**

| | |
|---|---|
| Length | 5.65 in [143.51 mm] |
| Width | 2.417 in [61.39 mm] |
| Height | 1.94 in [49.28 mm] |
| Weight | 0.5875 lbs [266.49 g] |

**RF Connector**

| | |
|---|---|
| Type | N Female |

**Waveguide Interface**

| | |
|---|---|
| Waveguide Size | WR-159 |

### Environmental Specifications

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

### Plotted and Other Data

Notes:

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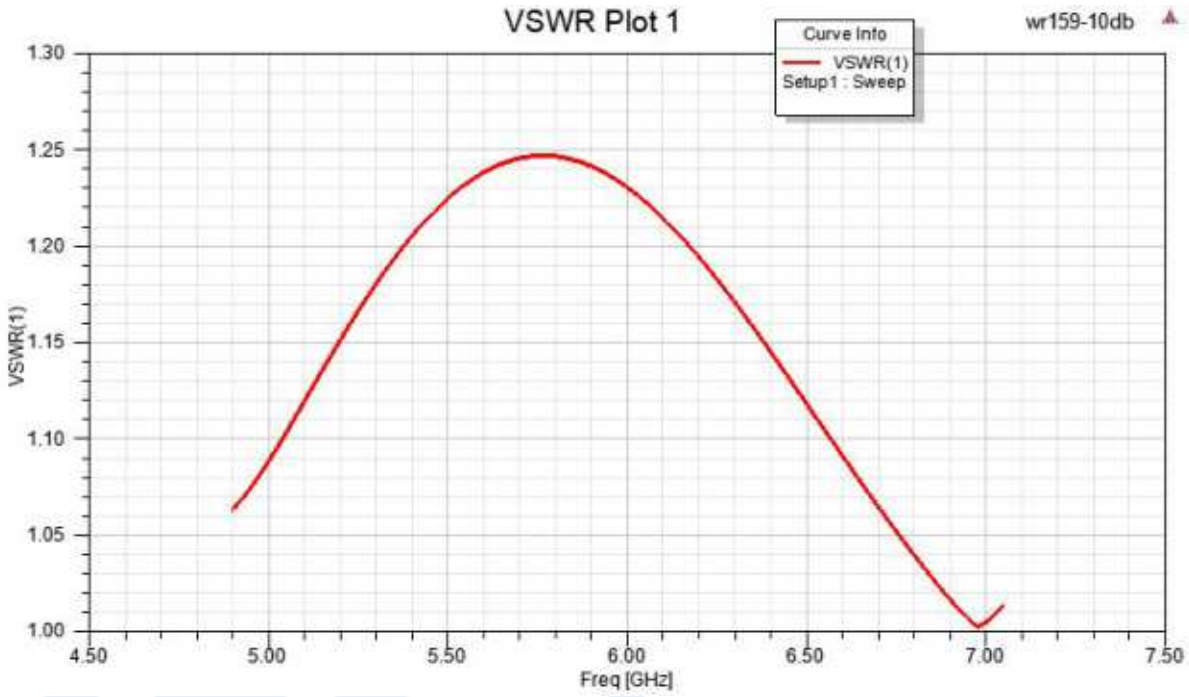
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**Typical Performance Data**




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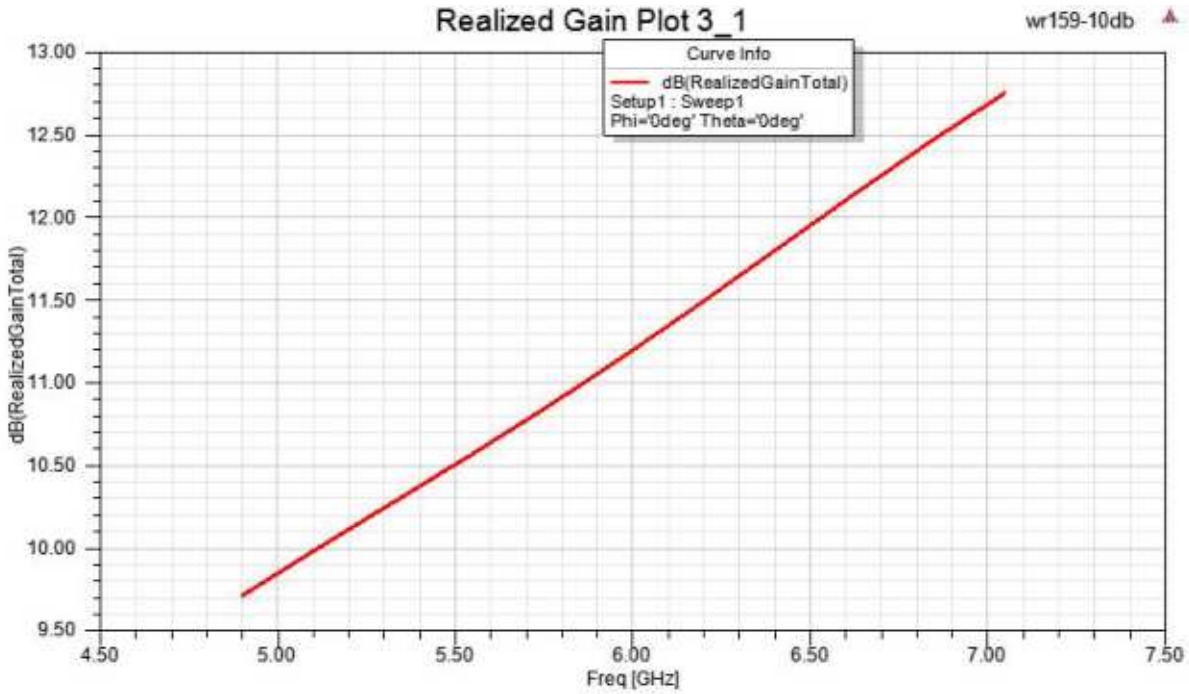
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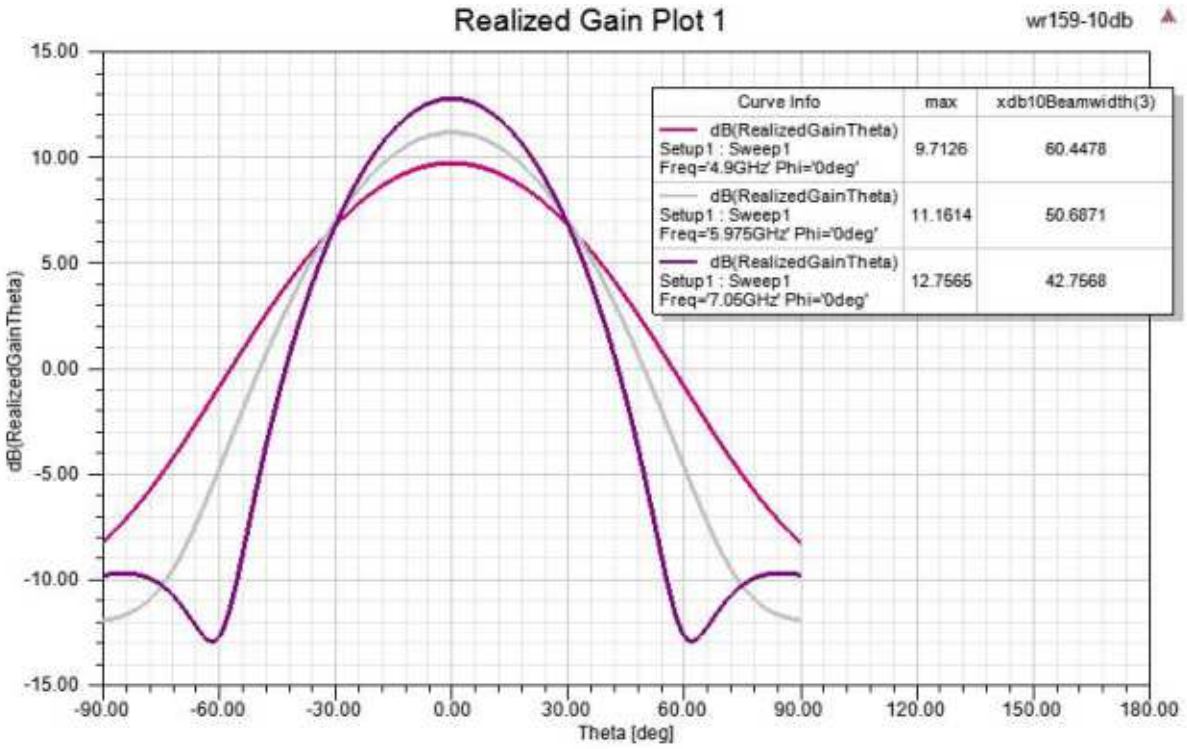
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WR-159 Standard Gain Horn with 10 dBi gain, N Female connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the 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-159 Standard Gain Horn with 10 dBi gain, N Female connector PEWAN159-10NF

URL:

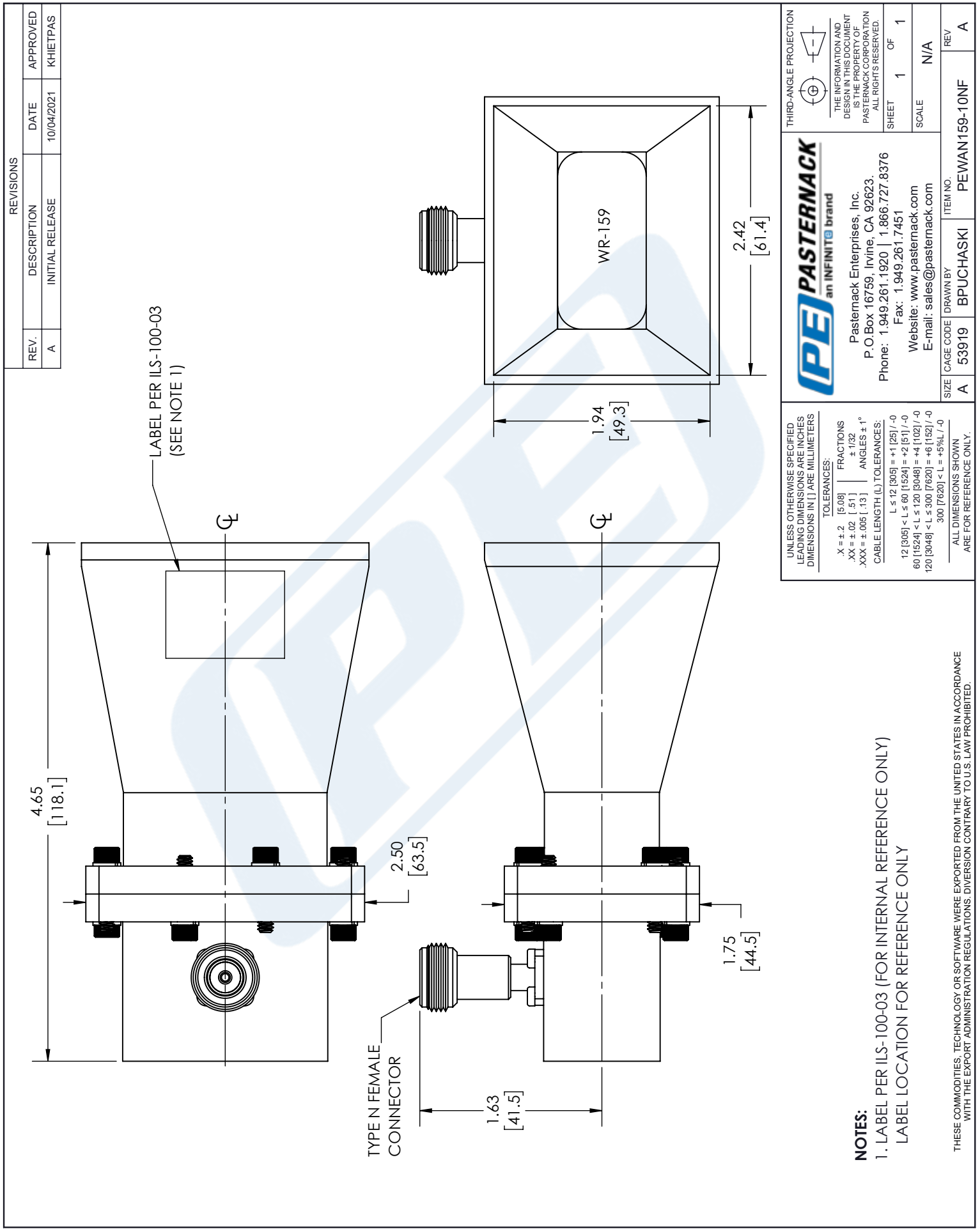
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# PEWAN159-10NF CAD Drawing

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