

WR-42 Standard Gain Horn with 15 dBi gain, 2.92mm Female connector

# **Technical Data Sheet**



## PEWAN042-15KF

#### Features

• 18 GHz to 26.5 GHz

Laboratory Use

· WR-42 Waveguide Band

#### **Applications**

- Antenna MeasurementsWireless Communication
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test

Solutions

- Radar Cross Section
- Satellite Antenna Testing

#### Description

The PEWAN042-15KF 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-42 to 2.92mm Female waveguide to coaxial adapter and operates from 18 GHz to 26.5 GHz.

Our PEWAN042-15KF 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 2.92mm Female to WR-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PEWAN042-15KF 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-42 waveguide antennas with 2.92mm Female 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-42 Standard Gain Horn 2.92mm Female

15 dBi Nominal Gain

2.92mm Female Connector

### **Electrical Specifications**

| Description                      | Minimum | Typical | Maximum | Units   |
|----------------------------------|---------|---------|---------|---------|
| Frequency Range                  | 18      |         | 26.5    | GHz     |
| Naveguide Standard Gain Horn     |         |         |         |         |
| Gain                             |         | 15      |         | dBi     |
| Horizontal Half Power Beam Width |         | 31      |         | Degrees |
| Vertical Half Power Beam Width   |         | 32      |         | Degrees |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-42 Standard Gain Horn with 15 dBi gain, 2.92mm Female connector PEWAN042-15KF

PEWAN042-15KF REV 1

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## PEWAN042-15KF

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|        | Mechanical Specifications |

| <b>Size</b><br>Length<br>Width<br>Height | 3.012 in [76.5 mm]<br>1.258 in [31.95 mm]<br>0.942 in [23.93 mm] |
|--|--|
| Weight                                   | 0.1 lbs [45.36 g]  |
| <b>RF Connector</b><br>Type              | 2.92mm Female  |
| Waveguide Interface<br>Waveguide Size    | WR-42  |
| Environmental Specifications             |  |
|  |  |

Compliance Certifications (see product page for current document)

## Plotted and Other Data

Notes:

WR-42 Standard Gain Horn with 15 dBi gain, 2.92mm 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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PEWAN042-15KF CAD Drawing WR-42 Standard Gain Horn with 15 dBi gain, 2.92mm Female connector

