PASTERNACK
an INFINITE brand

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
- WR-42 Waveguide Band
- 15 dBi Nominal Gain
- 2.92mm 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 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	WR-42 Standard Gain Horn
Coaxial Interface	2.92mm Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	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			1.4:1	

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

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Mechanical Specifications

Size

Length	3.012 in [76.5 mm]
Width	1.258 in [31.95 mm]
Height	0.942 in [23.93 mm]
Weight	0.1 lbs [45.36 g]

RF Connector

Type	2.92mm Female

Waveguide Interface

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.

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

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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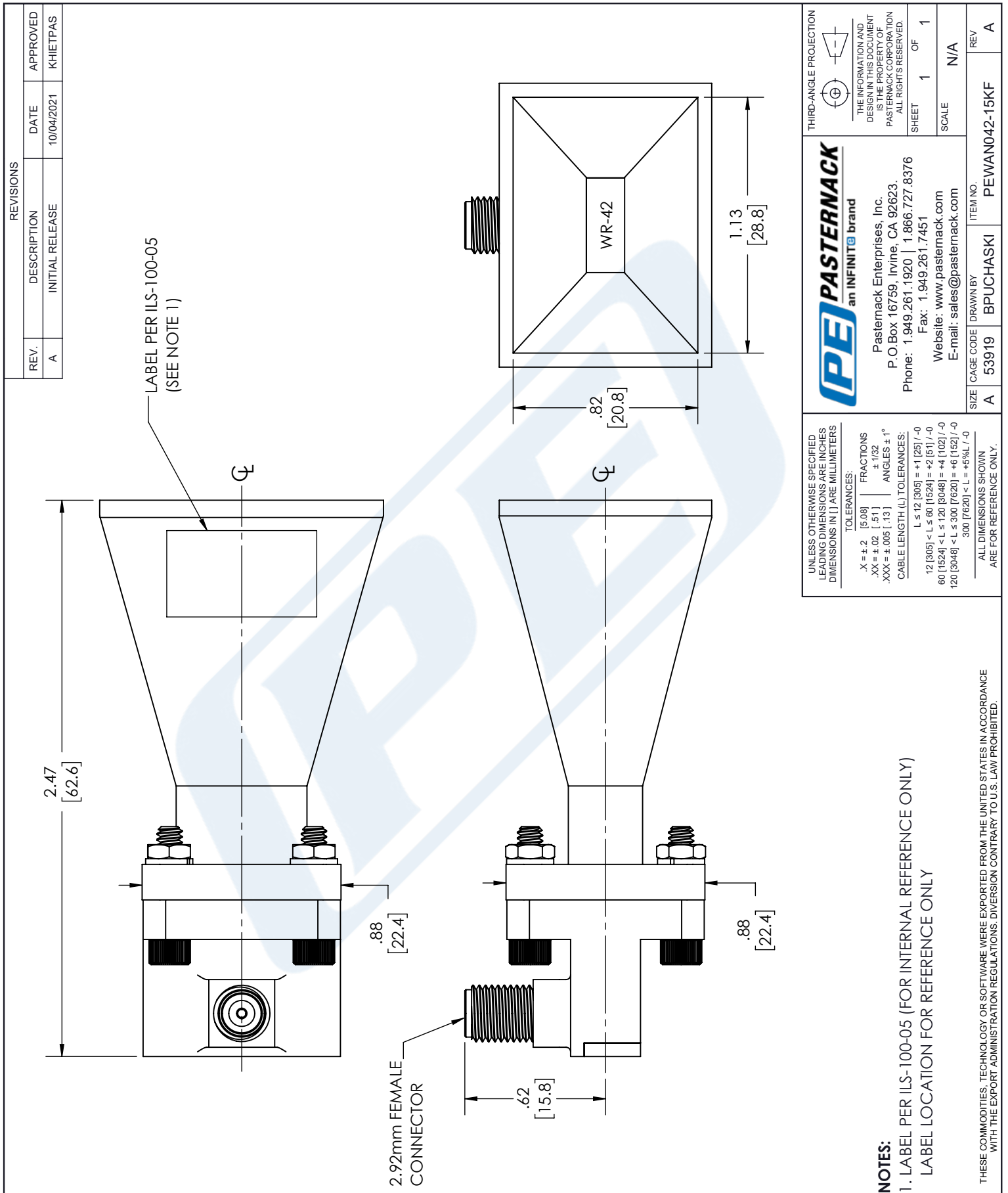
PEWAN042-15KF CAD Drawing

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



NOTES:

1. LABEL PER ILS-100-05 (FOR INTERNAL REFERENCE ONLY)
   LABEL LOCATION FOR REFERENCE ONLY

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