PASTERNACK
an INFINITE brand

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



Technical Data Sheet PEWAN042-15SF

Features

- 18 GHz to 26.5 GHz
- WR-42 Waveguide Band
- 15 dBi Nominal Gain
- SMA 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 PEWAN042-15SF 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 SMA Female waveguide to coaxial adapter and operates from 18 GHz to 26.5 GHz.

Our PEWAN042-15SF 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 SMA 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 PEWAN042-15SF 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 SMA 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	SMA 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			1.3:1	

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

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

Size

Length	2.392 in [60.76 mm]
Width	1.258 in [31.95 mm]
Height	0.942 in [23.93 mm]
Weight	0.0729 lbs [33.07 g]

RF Connector

Type	SMA Female

Waveguide Interface

Waveguide Size	WR-42

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

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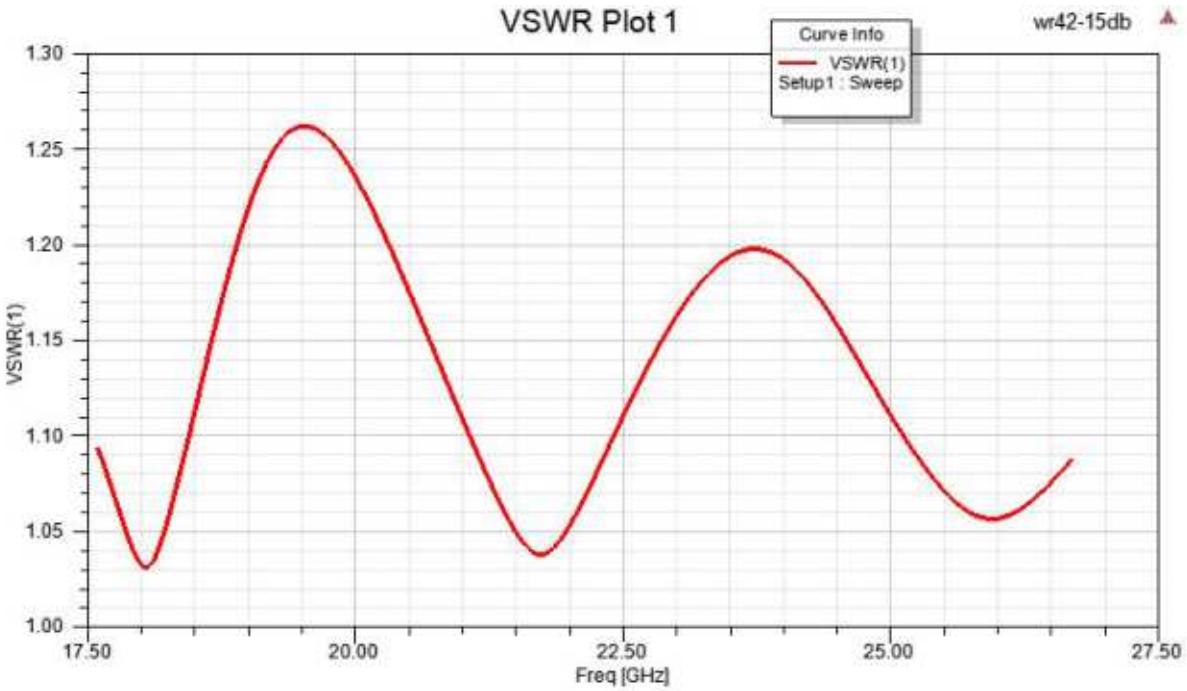
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Typical Performance Data



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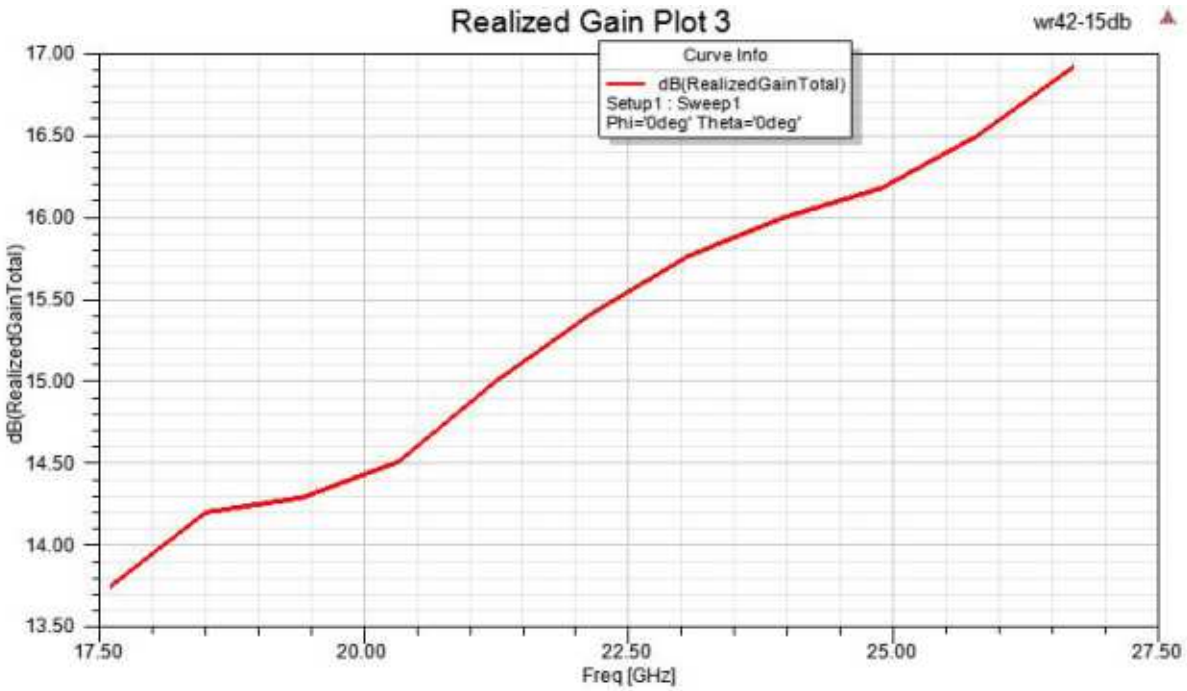
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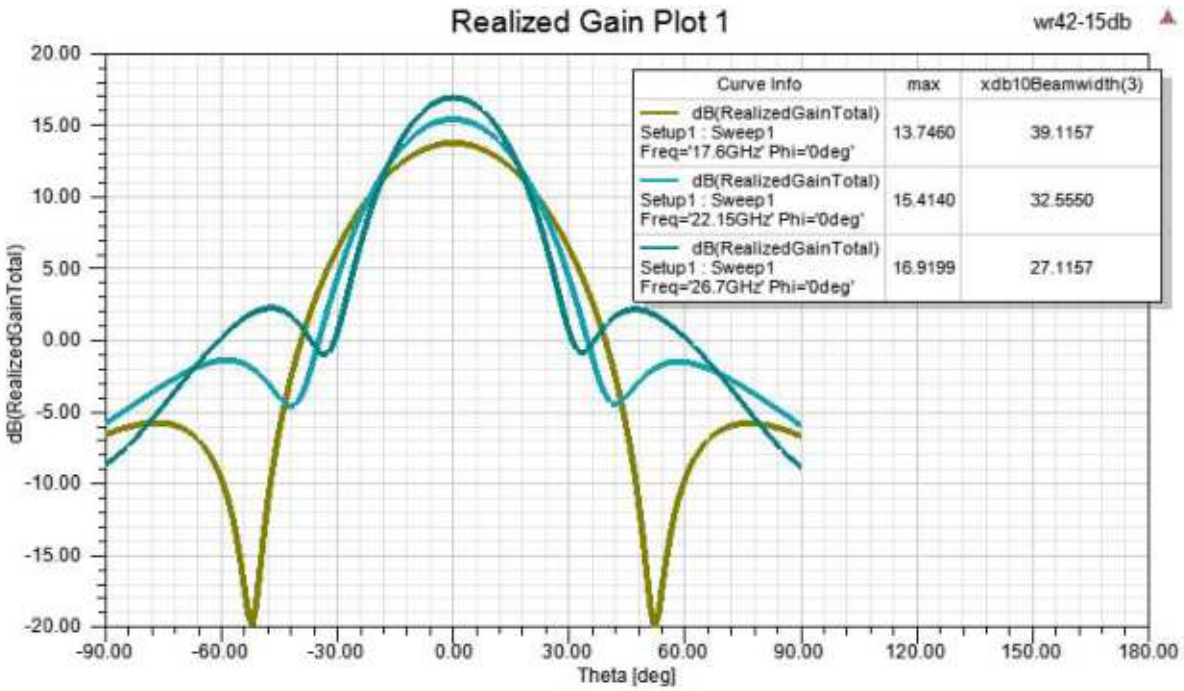
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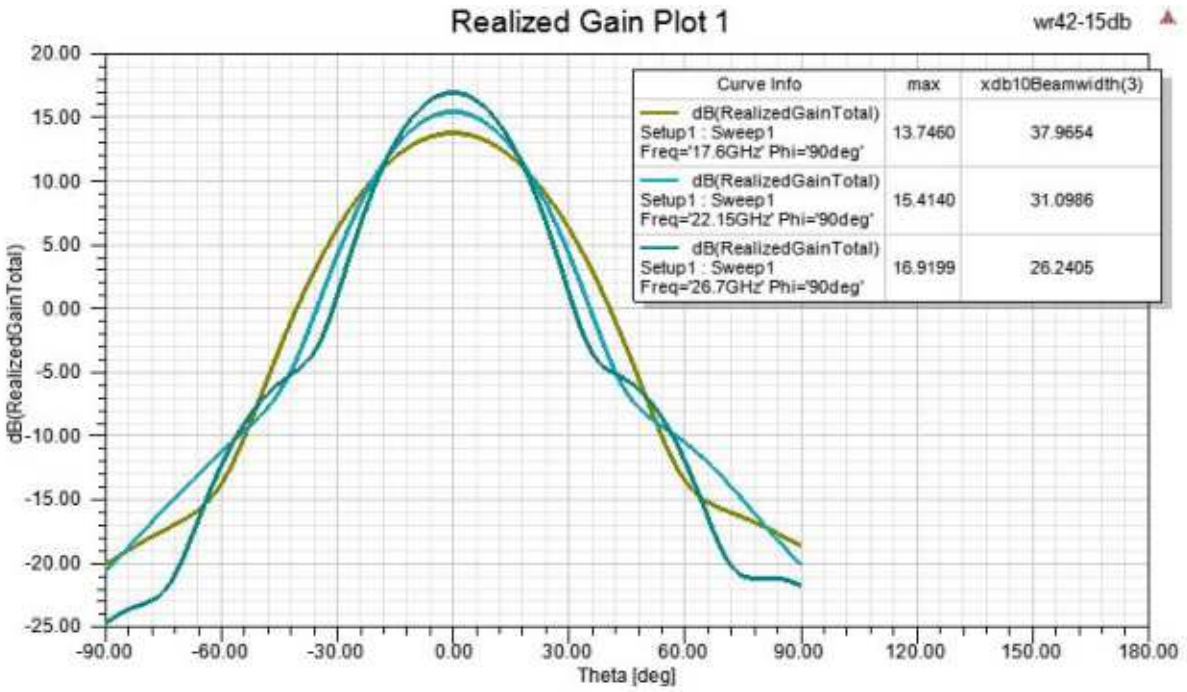
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WR-42 Standard Gain Horn with 15 dBi gain, SMA Female connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL:

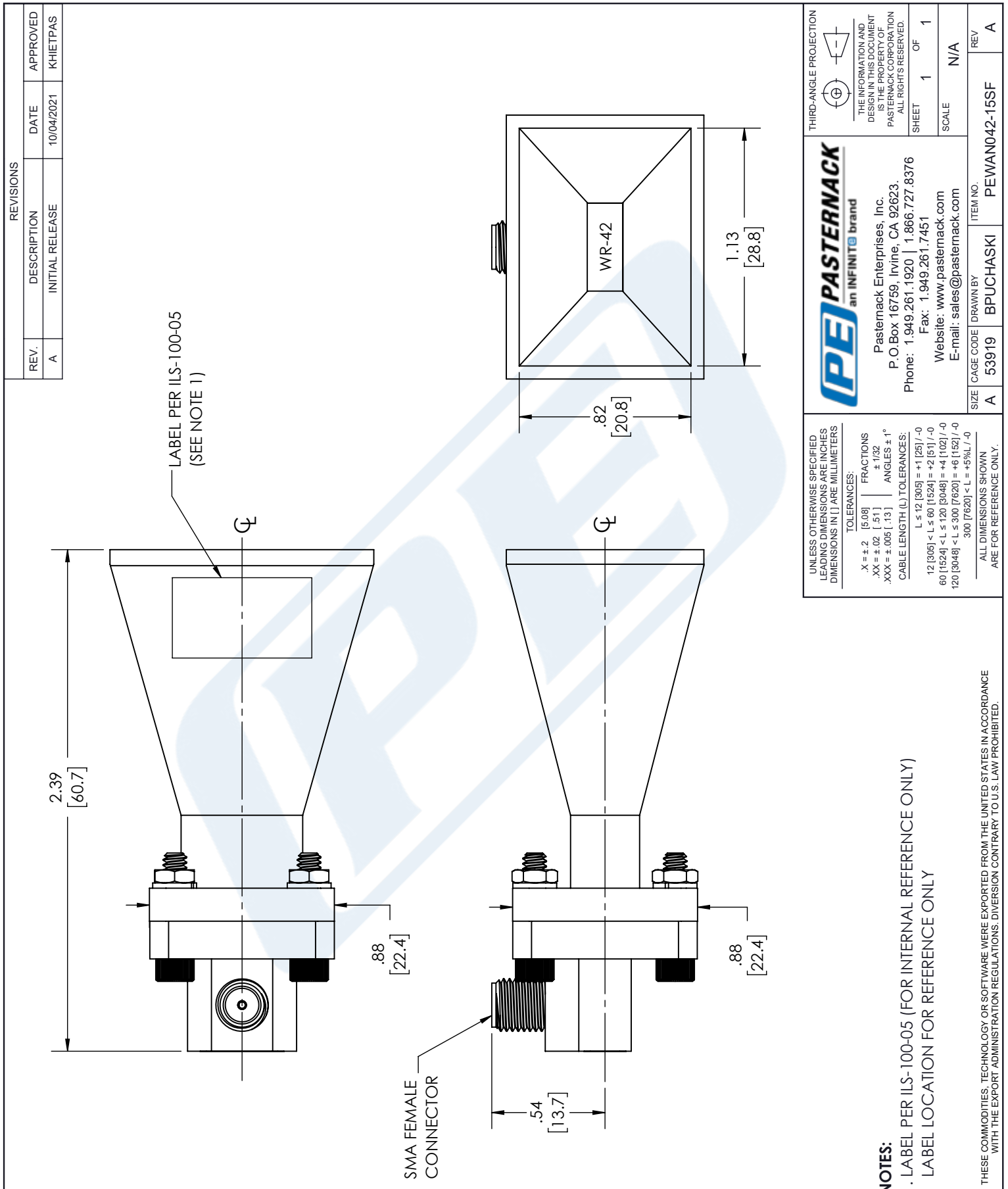
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PEWAN042-15SF CAD Drawing

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