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WR-42 Waveguide Antenna, 18 GHz to 26.5 GHz Frequency Range, 20 dBi Gain, UG-597/U Flange

Waveguide Antennas Technical Data Sheet PEWAN042-20

Features

- WR-42 Rectangular Waveguide Interface
- 18 GHz to 26.5 GHz
- 20 dBi Nominal Gain
- UG-597/U Cover Flange
- K Band

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

Description

The PEWAN042-20 K Band standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 20 dBi. This WR-42 standard gain horn has a UG-597/U type flange. The Pasternack 20 dBi WR-42 horn antenna operates from 18 GHz to 26.5 GHz. The WR-42 PEWAN042-20 waveguide horn is Powder coated Aluminum for added protection and corrosion resistance. It is part of over 40,000 RF, microwave and millimeter wave components available from Pasternack. Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. Pasternack's WR-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-42 standard gain horn antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

Configuration

Design	WR-42
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
Nominal Gain		20		dB
Horizontal Half Power Beam Width		17.5		Degrees
Vertical Half Power Beam Width		17.3		Degrees
VSWR		1.3:1		

Mechanical Specifications

Size

Length	4.331 in [110.01 mm]
Width	2.054 in [52.17 mm]
Height	1.524 in [38.71 mm]
Weight	0.1 lbs [45.36 g]

Waveguide Interface

Waveguide Size	WR-42

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-42 Waveguide Antenna, 18 GHz to 26.5 GHz Frequency Range, 20 dBi Gain, UG-597/U Flange PEWAN042-20

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Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
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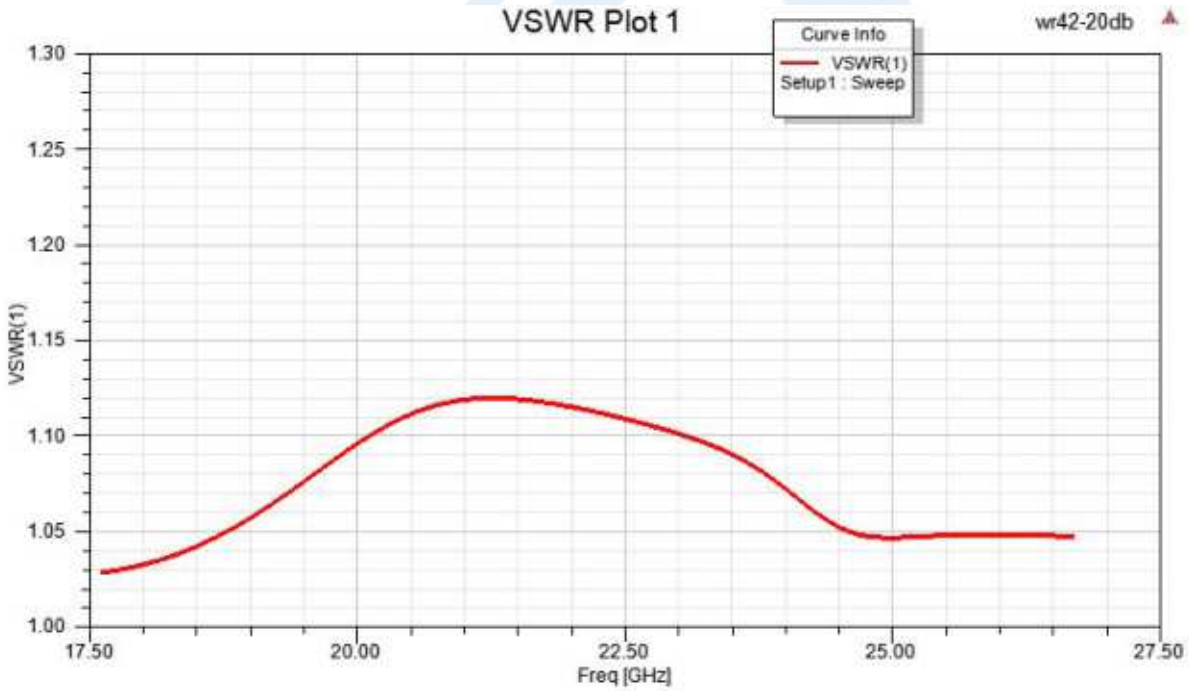
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Flange Type	Square Cover
Flange Designation	UG-597/U
Body Material and Plating	Aluminum, Gray

Compliance Certifications (see product page for current document)

Plotted and Other Data

Typical Performance Data



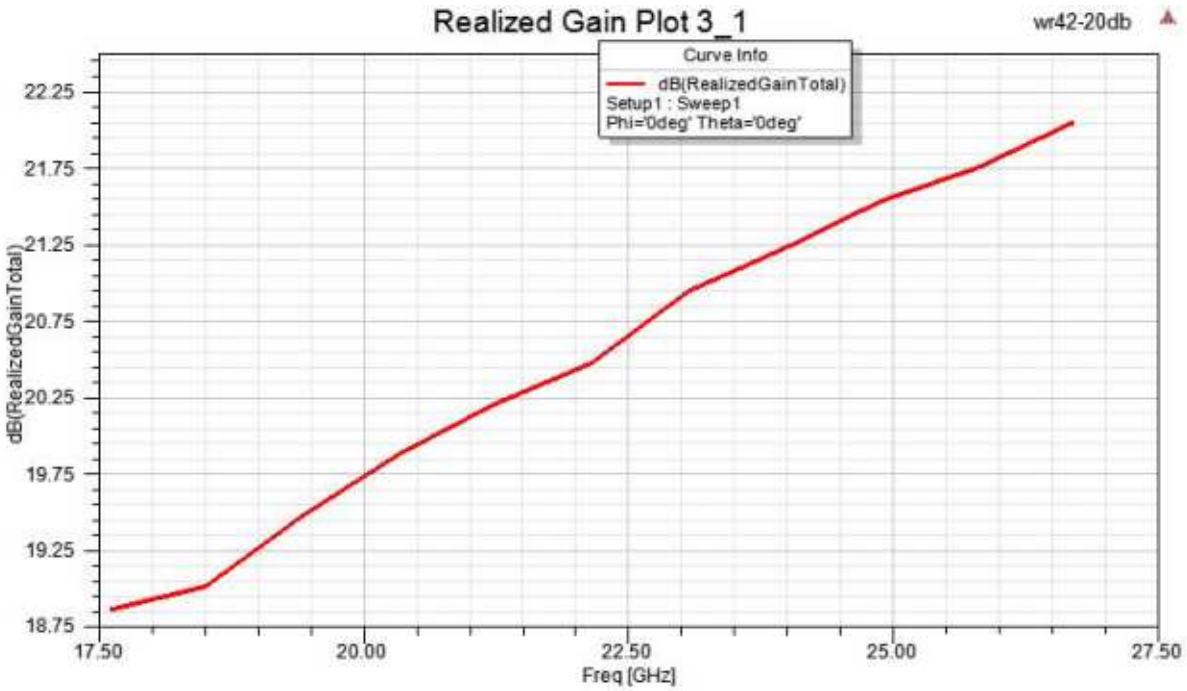
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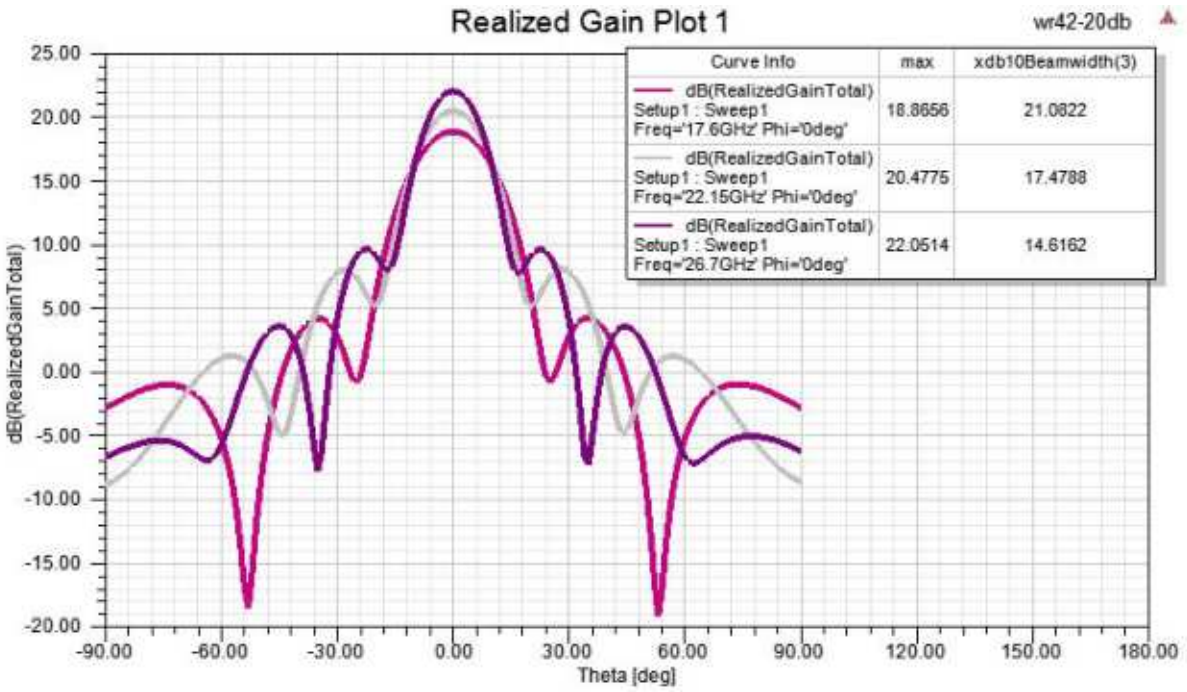
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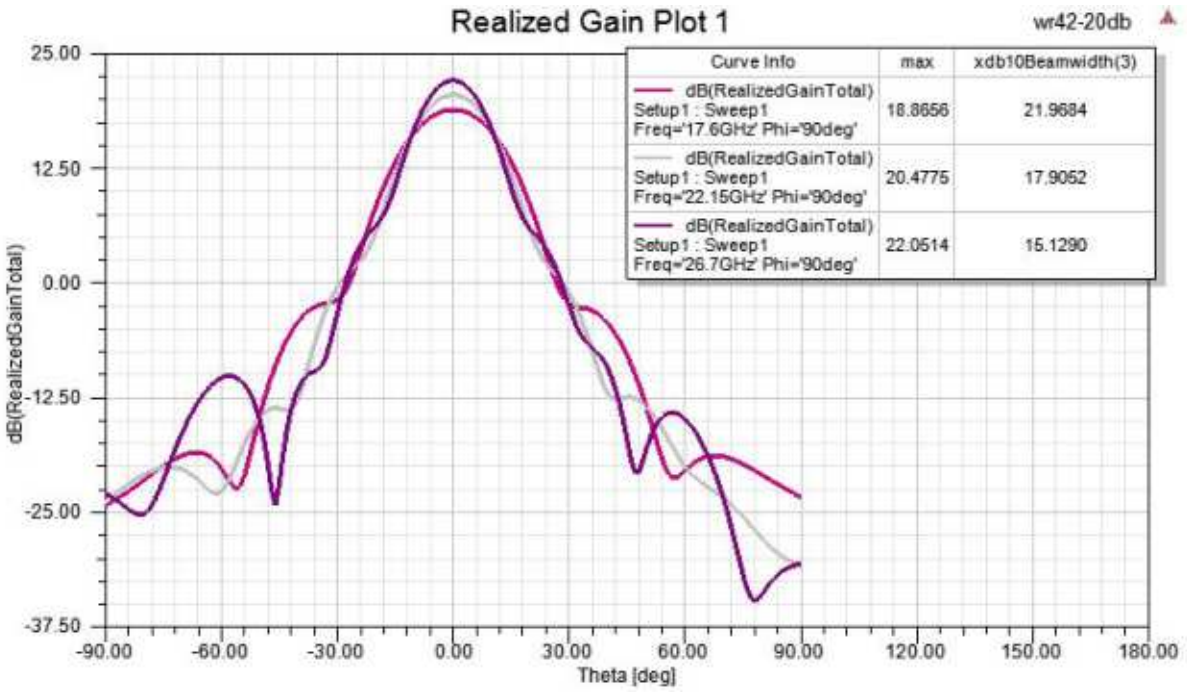
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WR-42 Waveguide Antenna, 18 GHz to 26.5 GHz Frequency Range, 20 dBi Gain, UG-597/U Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr-42-waveguide-gain-horn-antenna-20db-ug-597-square-flange-pewan042-20-p.aspx

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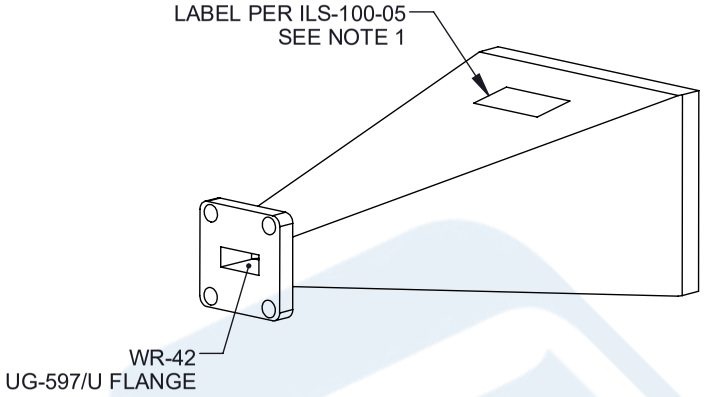
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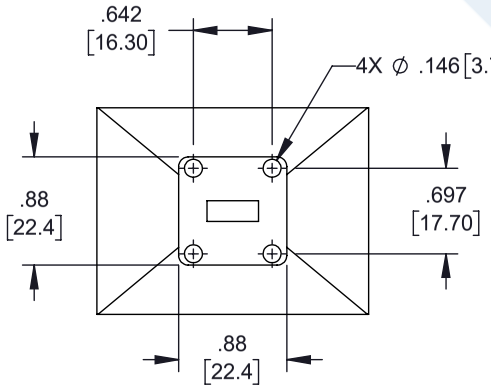
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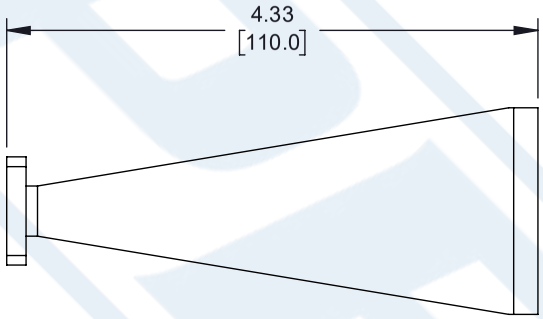
PEWAN042-20 CAD Drawing

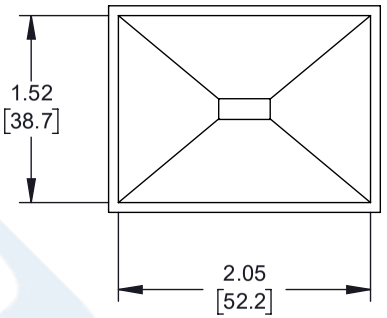
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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/14/2021	KHIETPAS









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SHEET 1 OF 1

SCALE N/A

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