

WR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 10 dBi Nominal Gain, square Flange



Waveguide Antennas Technical Data Sheet

PEWAN051-10

Features

- WR-51 Rectangular Waveguide Interface
- 15 GHz to 22 GHz
- 10 dBi Nominal Gain

Applications

- Antenna Measurements
- · Wireless Communication

- Square Cover Cover Flange
- Ku-K Band
- Laboratory Use
- Microwave Radio Systems

Description

The PEWAN051-10 Ku-K Band standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 10 dBi. This WR-51 standard gain horn has a Square Cover type flange. The Pasternack 10 dBi WR-51 horn antenna operates from 15 GHz to 22 GHz. The WR-51 PEWAN051-10 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-51 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-51 standard gain horn antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

Configuration

Design WR-51
Polarization Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	15		22	GHz
Nominal Gain		10		dB
Horizontal Half Power Beam Width		52.1		Degrees
Vertical Half Power Beam Width		51.6		Degrees
VSWR		1.3:1		

Mechanical Specifications

Size

 Length
 1.378 in [35 mm]

 Width
 1.31 in [33.27 mm]

 Height
 1.31 in [33.27 mm]

 Weight
 0.04 lbs [18.14 g]

Waveguide Interface

Waveguide Size WR-51

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 10 dBi Nominal Gain, square Flange PEWAN051-10

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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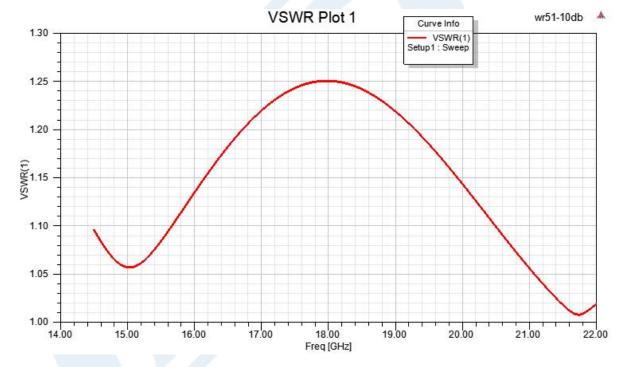
PEWAN051-10

Flange Type Body Material and Plating Square Cover Aluminum, Gray

Compliance Certifications (see product page for current document)

Plotted and Other Data

Typical Performance Data



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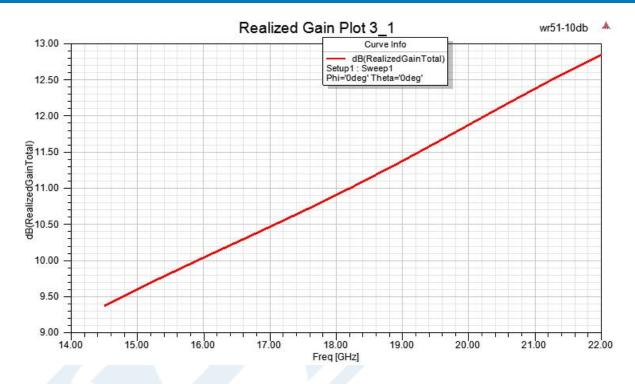




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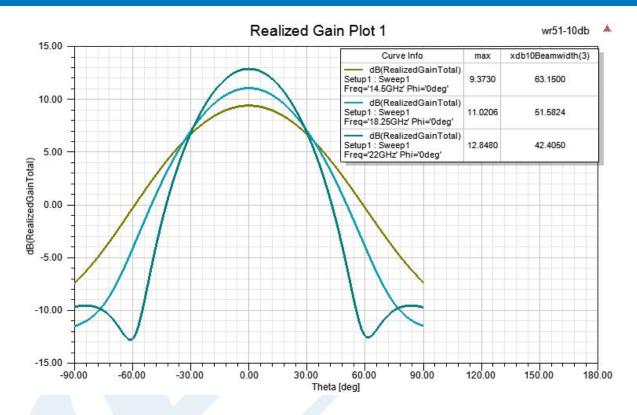




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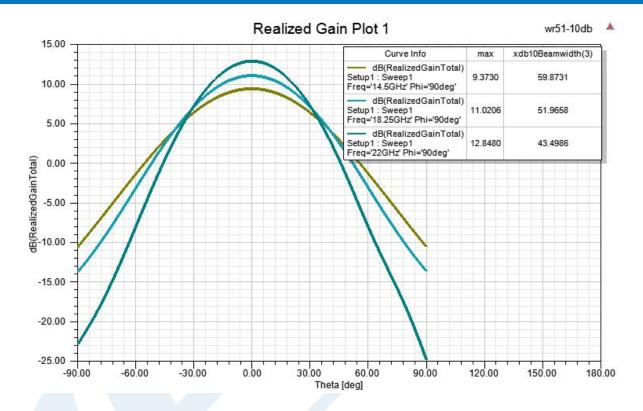




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WR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 10 dBi Nominal Gain, square Flange from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: https://www.pasternack.com/wr-51-gain-horn-antenna-15-ghz-to-22-ghz-10-dbi-gain-pewan051-10-p.aspx

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.

PEWAN051-10 CAD DrawingWR-51 Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz, 10 dBi Nominal Gain, square Flange

