

# WR-51 Waveguide Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz With a Nominal 15 dBi Gain With Square Cover Flange



### Gain Horns Technical Data Sheet

PE9853-15

#### **Features**

- Rectangular Waveguide Interface
- 15 GHz to 22 GHz

- 15 dBi Nominal Gain
- Square Cover Flange

WR-51 Standard Gain Horn

# **Applications**

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

## Description

Pasternack's PE9853-15 WR-51 waveguide standard gain horn antenna operating from 15 GHz to 22 GHz with a nominal 15 dBi gain is part of our full line of RF components available for same-day shipping. This Pasternack pyramidal horn antenna has a lightweight anodized aluminum body and a precision tolerance square cover flange. The PE9853-15 WR-51 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 32 degrees of half power beam width.

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 across a broad bandwidth. Pasternack's WR-51 standard gain horns are available in 10, 15 and 20 dB models with pyramidal shape and rectangular waveguide input.

## Configuration

Design

Pattern Directional Polarization Linear

#### **Electrical Specifications**

Minimum	Typical	Maximum	Units
15		22	GHz
	15		dBi
	31.8		Degrees
	32		Degrees
		15 15 31.8	15 22 15 31.8

Electrical Specification Notes:

Half power beam width is calculated by computer simulation.

#### **Mechanical Specifications**

Size

 Length
 2.84 in [72.14 mm]

 Width
 2.25 in [57.15 mm]

 Height
 1.31 in [33.27 mm]

 Weight
 0.11 lbs [49.9 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-51 Waveguide Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz With a Nominal 15 dBi Gain With Square Cover Flange PE9853-15

ISO 9001 : 2008 Registered



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**Wavequide Interface** 

Waveguide Size Flange Type Body Material and Plating WR-51 **Square Cover** Anodized Aluminum, Paint

**Environmental Specifications** 

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

Notes:

WR-51 Waveguide Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz With a Nominal 15 dBi Gain With Square Cover 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-51 Waveguide Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz With a Nominal 15 dBi Gain With Square Cover Flange PE9853-15

URL: https://www.pasternack.com/standard-gain-horn-waveguide-size-wr51-pe9853-15-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.



**PE9853-15 CAD Drawing**WR-51 Waveguide Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz With a Nominal 15 dBi Gain With Square Cover Flange

