

WR-51 Waveguide Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz With a Nominal 20 dBi Gain With Square Cover Flange



Gain Horns Technical Data Sheet

PE9853A-20

Features

- Rectangular Waveguide Interface
- 15 GHz to 22 GHz

- 20 dBi Nominal Gain
- Square Cover Flange

Applications

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

Description

Pasternack's PE9853A-20 WR-51 waveguide standard gain horn antenna operating from 15 GHz to 22 GHz with a nominal 20 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 PE9853A-20 WR-51 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 18 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

Pattern Polarization WR-51 Standard Gain Horn

Directional Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	15		22	GHz
Nominal Gain		20		dBi
Horizontal Half Power Beam Width		18		Degrees
Vertical Half Power Beam Width		16.9		Degrees
Vertical Half Power Beam Width		16.9		Deg

Electrical Specification Notes:

Half power beam width is calculated by computer simulation.

Mechanical Specifications

Size

 Length
 4.89 in [124.21 mm]

 Width
 2.63 in [66.8 mm]

 Height
 2.035 in [51.69 mm]

 Weight
 0.0218 lbs [9.89 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 20 dBi Gain With Square Cover Flange PE9853A-20

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Waveguide 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 20 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.

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URL: https://www.pasternack.com/wr-51-waveguide-gain-horn-antenna-20dbi-square-flange-pe9853a-20-p.aspx

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PE9853A-20 CAD DrawingWR-51 Waveguide Standard Gain Horn Antenna Operating From 15 GHz to 22 GHz With a Nominal 20 dBi Gain With Square Cover Flange

