



WR-51 Waveguide Standard Gain Horn Antenna, 15 GHz to 22 GHz Frequency Range, 20 dBi Gain, Flange

Waveguide Antennas Technical Data Sheet

PE9853B-20

Features

- WR-51 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

The PE9853B-20 WR-51 Proline series standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 20 dBi. This WR-51 standard gain horn has a square type flange. The Pasternack 20 dBi WR-51 horn antenna operates from 15 GHz to 22 GHz. The WR-51 PE9853B-20 waveguide horn is US made and TAA compliant. 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 Proline antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

Configuration

Design	WR-51 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	15		22	GHz
Nominal Gain		20		dB
VSWR		1.5:1		

Mechanical Specifications

Size	
Length	4.83 in [122.68 mm]
Width	2.37 in [60.2 mm]
Height	1.73 in [43.94 mm]

Waveguide Interface

Waveguide Size	WR-51
Flange Type	Square Cover
Body Material and Plating	Aluminum

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, 15 GHz to 22 GHz Frequency Range, 20 dBi Gain, Flange PE9853B-20](#)



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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

WR-51 Waveguide Standard Gain Horn Antenna, 15 GHz to 22 GHz Frequency Range, 20 dBi Gain, 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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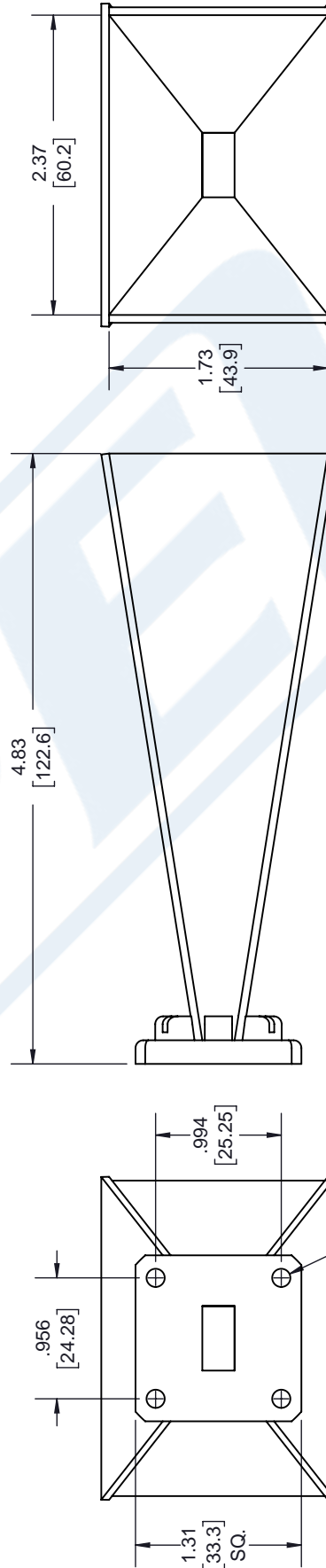
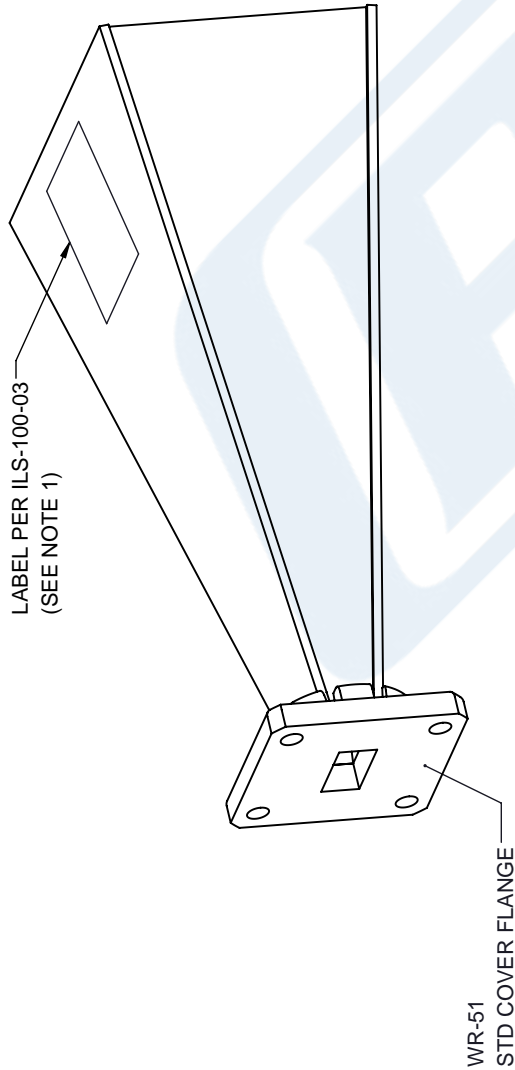
URL: <https://www.pasternack.com/wr-51-waveguide-gain-horn-antenna-20db-square-flange-pe9853b-20-p.aspx>

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PE9853B-20 CAD Drawing

WR-51 Waveguide Standard Gain Horn Antenna, 15 GHz to 22 GHz Frequency Range, 20 dBi Gain, Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	11/03/2020	KHIETPAS



UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS	
TOLERANCES:	FRACTIONS
.X = ±.2	[.508]
.XX = ±.02	[.51]
.XXX = ±.005	[.13]
ANGLES ± 1°	
CABLE LENGTH (L) TOLERANCES:	
L ≤ 12 [305] = +1 [25] / -0	
12 [305] < L ≤ 60 [1524] = +2 [51] / -0	
60 [1524] < L ≤ 120 [3048] = +4 [102] / -0	
120 [3048] < L ≤ 300 [7620] = +6 [152] / -0	
300 [7620] < L = +5% / -0	
ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.	

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SIZE	53919
CAGE CODE	BPUCHASKI
DRAWN BY	BPUCHASKI
ITEM NO.	PE9853B-20
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SCALE	N/A

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