



WR-34 Waveguide Standard Gain Horn Antenna  
Operating From 22 GHz to 33 GHz With a Nominal  
20 dBi Gain With UG-1530/U Square Cover Flange

Waveguide Antennas Technical Data Sheet

PE9851B-20

**Features**

- WR-34 Rectangular Waveguide Interface
- 22 GHz to 33 GHz
- 20 dBi Nominal Gain
- UG-1530/U Cover Flange

**Applications**

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

**Description**

The PE9851B-20 WR-34 Proline series standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 20 dBi. This WR-34 standard gain horn has a UG-1530/U type flange. The Pasternack 20 dBi WR-34 horn antenna operates from 22 GHz to 33 GHz. The WR-34 PE9851B-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-34 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-34 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-34 Standard Gain Horn
Pattern	Directional
Polarization	Linear

**Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	22		33	GHz
Impedance		50		Ohms
Nominal Gain		20		dB
VSWR		1.5:1		

**Mechanical Specifications**

<b>Size</b>	
Length	3.34 in [84.84 mm]
Width	1.974 in [50.14 mm]
Height	1.492 in [37.9 mm]

**Waveguide Interface**

Waveguide Size	WR-34
Flange Type	Square Cover

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-34 Waveguide Standard Gain Horn Antenna Operating From 22 GHz to 33 GHz With a Nominal 20 dBi Gain With UG-1530/U Square Cover Flange PE9851B-20](#)



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Flange Designation  
Body Material and Plating

UG-1530/U  
Aluminum

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

**Plotted and Other Data**

WR-34 Waveguide Standard Gain Horn Antenna Operating From 22 GHz to 33 GHz With a Nominal 20 dBi Gain With UG-1530/U 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-34 Waveguide Standard Gain Horn Antenna Operating From 22 GHz to 33 GHz With a Nominal 20 dBi Gain With UG-1530/U Square Cover Flange PE9851B-20](#)

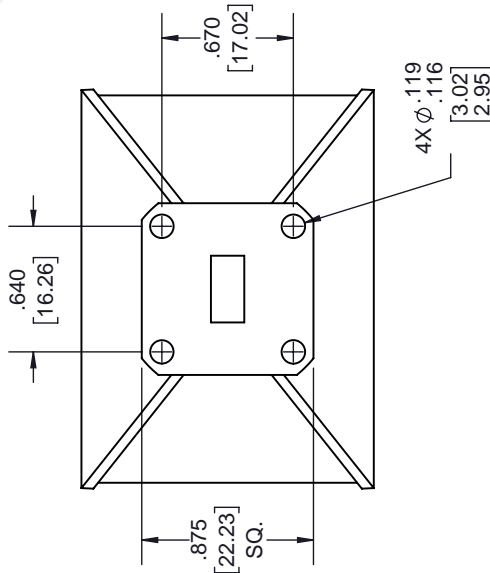
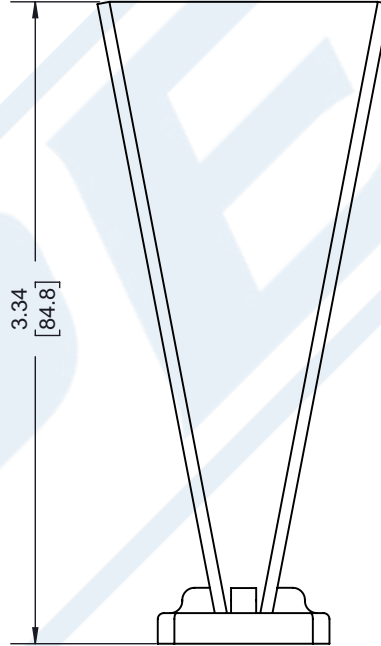
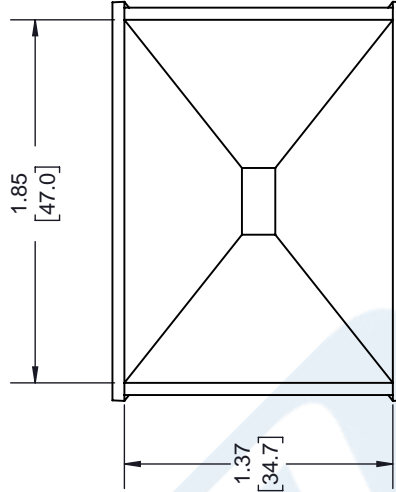
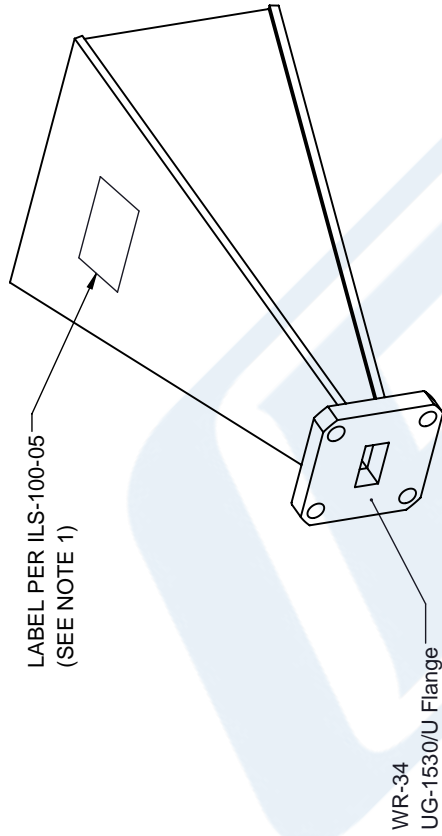
URL: <https://www.pasternack.com/wr-34-waveguide-gain-horn-antenna-20db-ug-1530-square-flange-pe9851b-20-p.aspx>

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# PE9851B-20 CAD Drawing

WR-34 Waveguide Standard Gain Horn Antenna Operating From 22 GHz to 33 GHz With a Nominal 20 dBi Gain With UG-1530/U Square Cover 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:

.X = ±.2 [5.08] FRACTIONS

.XX = ±.02 [.51] ± 1/32

.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.

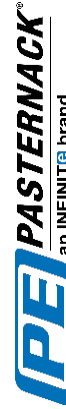


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SHEET 1 OF 1

SCALE N/A

REV A



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ITEM NO. PE9851B-20

NOTES:  
1. LABEL PER ILS-100-05 (FOR INTERNAL REFERENCE ONLY)  
LABEL LOCATION FOR REFERENCE ONLY

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