



WR-90 Waveguide Standard Gain Horn Antenna
Operating From 8.2 GHz to 12.4 GHz With a Nominal
10 dBi Gain With UG-135/U Square Cover Flange

Waveguide Antennas Technical Data Sheet

PE9856B-10

Features

- WR-90 Rectangular Waveguide Interface
- 8.2 GHz to 12.4 GHz
- 10 dBi Nominal Gain
- UG-135/U Cover Flange

Applications

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

Description

The PE9856B-10 WR-90 Proline series standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 10 dBi. This WR-90 standard gain horn has a UG-135/U type flange. The Pasternack 10 dBi WR-90 horn antenna operates from 8.2 GHz to 12.4 GHz. The WR-90 PE9856B-10 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-90 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-90 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-90 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
Nominal Gain		10		dBi
VSWR		1.5:1		

Mechanical Specifications

Size

Length	2 in [50.8 mm]
Width	1.63 in [41.4 mm]
Height	1.63 in [41.4 mm]
Weight	0.05 lbs [22.68 g]

Waveguide Interface

Waveguide Size	WR-90
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-90 Waveguide Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz With a Nominal 10 dBi Gain With UG-135/U Square Cover Flange PE9856B-10](#)



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Flange Designation
Body Material and Plating

UG-135/U
Aluminum

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

Plotted and Other Data

WR-90 Waveguide Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz With a Nominal 10 dBi Gain With UG-135/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-90 Waveguide Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz With a Nominal 10 dBi Gain With UG-135/U Square Cover Flange PE9856B-10](#)

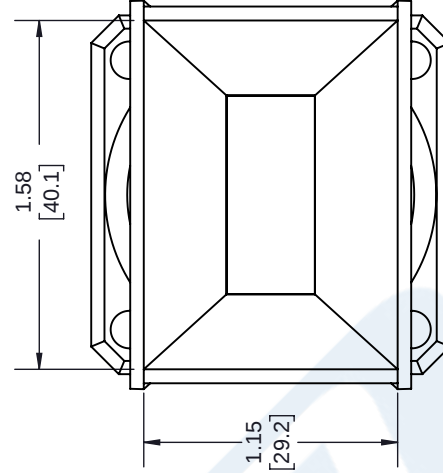
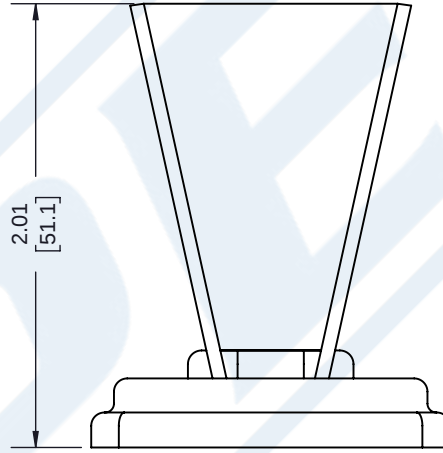
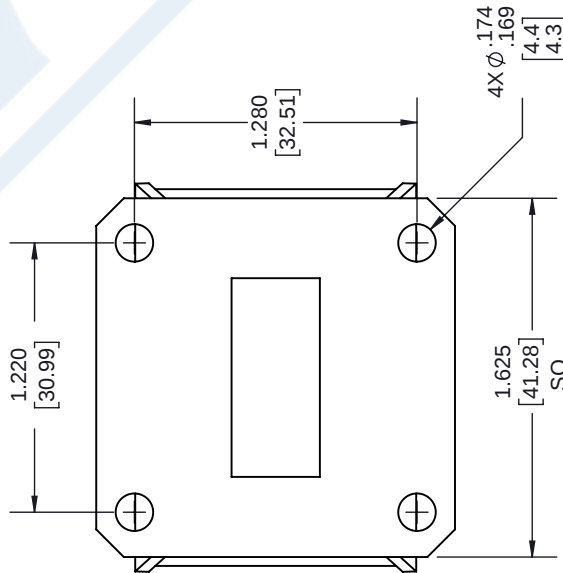
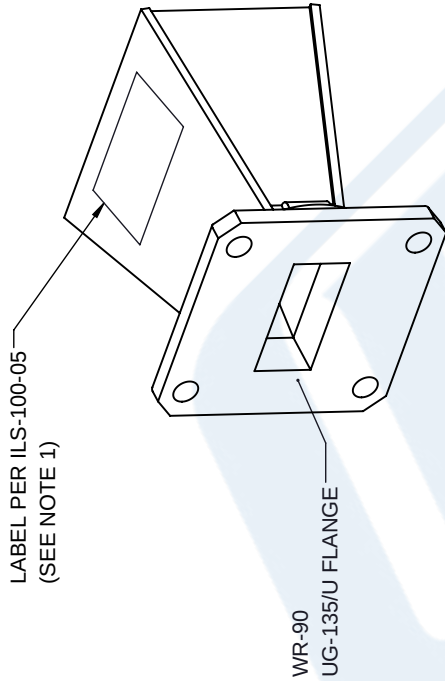
URL: <https://www.pasternack.com/wr-90-waveguide-gain-horn-antenna-10db-ug-135-square-flange-pe9856b-10-p.aspx>

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PE9856B-10 CAD Drawing

WR-90 Waveguide Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz With a Nominal 10 dBi Gain With UG-135/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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SCALE N/A

REV A

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