



WR-159 Waveguide Standard Gain Horn Antenna
Operating From 4.9 GHz to 7.05 GHz With a
Nominal 10 dBi Gain With CMR-159 Flange

Waveguide Antennas Technical Data Sheet

PE9860B-10

Features

- WR-159 Rectangular Waveguide Interface
- 4.9 GHz to 7.05 GHz
- 10 dBi Nominal Gain
- CMR-159 Flange

Applications

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

Description

The PE9860B-10 WR-159 Proline series standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 10 dBi. This WR-159 standard gain horn has a CMR-159 type flange. The Pasternack 10 dBi WR-159 horn antenna operates from 4.9 GHz to 7.05 GHz. The WR-159 PE9860B-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-159 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-159 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-159 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.9		7.05	GHz
Nominal Gain		10		dB
VSWR		1.5:1		

Mechanical Specifications

Size	
Length	4.28 in [108.71 mm]
Width	2.805 in [71.25 mm]
Height	1.75 in [44.45 mm]
Weight	0.05 lbs [22.68 g]

Waveguide Interface

Waveguide Size	WR-159
Flange Type	CMR-159

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-159 Waveguide Standard Gain Horn Antenna Operating From 4.9 GHz to 7.05 GHz With a Nominal 10 dBi Gain With CMR-159 Flange PE9860B-10](#)



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Body Material and Plating

Aluminum

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

Plotted and Other Data

WR-159 Waveguide Standard Gain Horn Antenna Operating From 4.9 GHz to 7.05 GHz With a Nominal 10 dBi Gain With CMR-159 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-159 Waveguide Standard Gain Horn Antenna Operating From 4.9 GHz to 7.05 GHz With a Nominal 10 dBi Gain With CMR-159 Flange PE9860B-10](#)

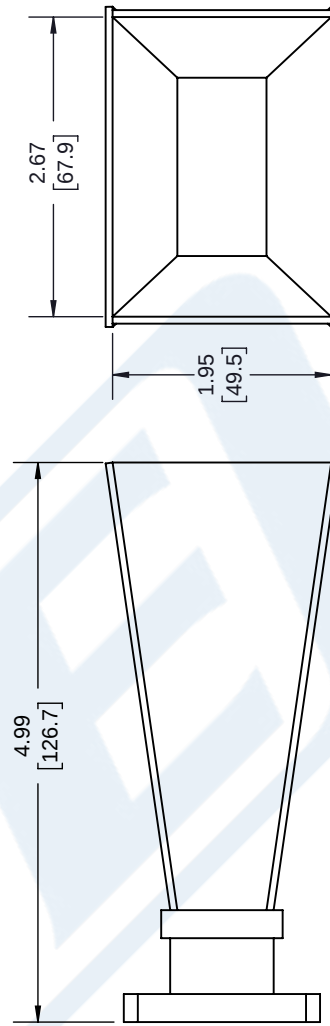
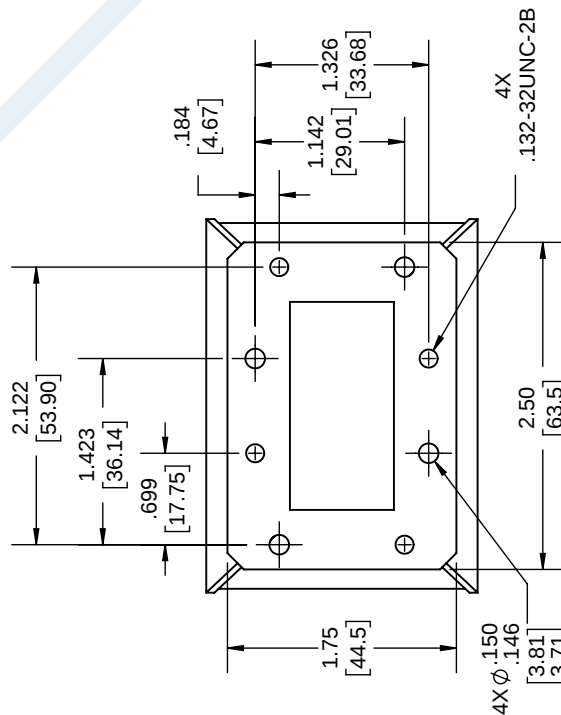
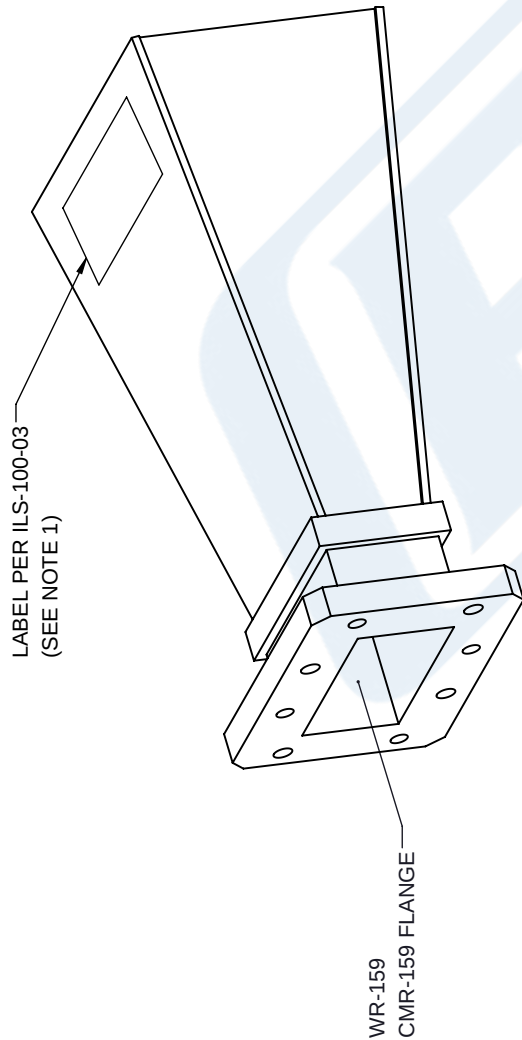
URL: <https://www.pasternack.com/wr-159-waveguide-gain-horn-antenna-10db-cmr-159-flange-pe9860b-10-p.aspx>

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PE9860B-10 CAD Drawing

WR-159 Waveguide Standard Gain Horn Antenna Operating From 4.9 GHz to 7.05 GHz With a Nominal 10 dBi Gain With CMR-159 Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PE9863B-10 20210526	06/09/2021	KHIETPAS



UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
FRACTIONS
.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.

PE PASTERNAK
an INFINITE brand

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