



## WR-187 Waveguide Standard Gain Horn Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 10 dBi Gain, Flange

### Waveguide Antennas Technical Data Sheet

PE9861B-10

#### Features

- WR-187 Rectangular Waveguide Interface
- 3.95 GHz to 5.85 GHz
- 10 dBi Nominal Gain
- CMR-187 Cover Flange

#### Applications

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

#### Description

The PE9861B-10 WR-187 Proline series standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 10 dBi. This WR-187 standard gain horn has a CMR-187 type flange. The Pasternack 10 dBi WR-187 horn antenna operates from 3.95 GHz to 5.85 GHz. The WR-187 PE9861B-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-187 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-187 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-187 Standard Gain Horn
Pattern	Directional
Polarization	Linear

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.95		5.85	GHz
Nominal Gain		10		dB
VSWR		1.5:1		

#### Mechanical Specifications

<b>Size</b>	
Length	5.28 in [134.11 mm]
Width	2.89 in [73.41 mm]
Height	2.12 in [53.85 mm]

#### Waveguide Interface

Waveguide Size	WR-187
Flange Type	CMR-187
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-187 Waveguide Standard Gain Horn Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 10 dBi Gain, Flange PE9861B-10](#)



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

#### Plotted and Other Data

WR-187 Waveguide Standard Gain Horn Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 10 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-187 Waveguide Standard Gain Horn Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 10 dBi Gain, Flange PE9861B-10](#)

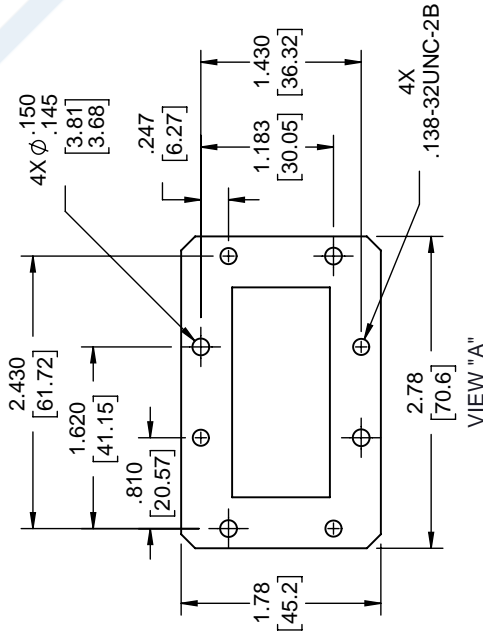
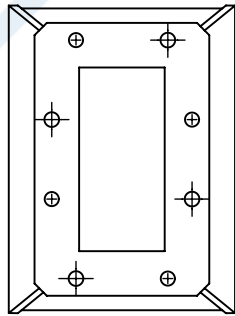
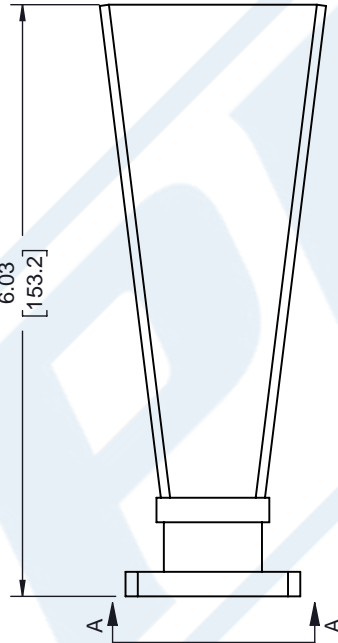
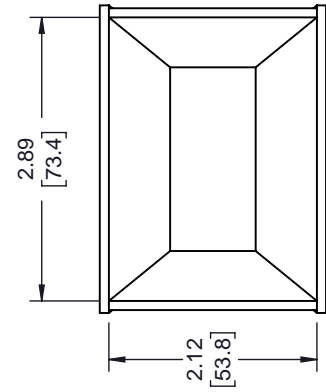
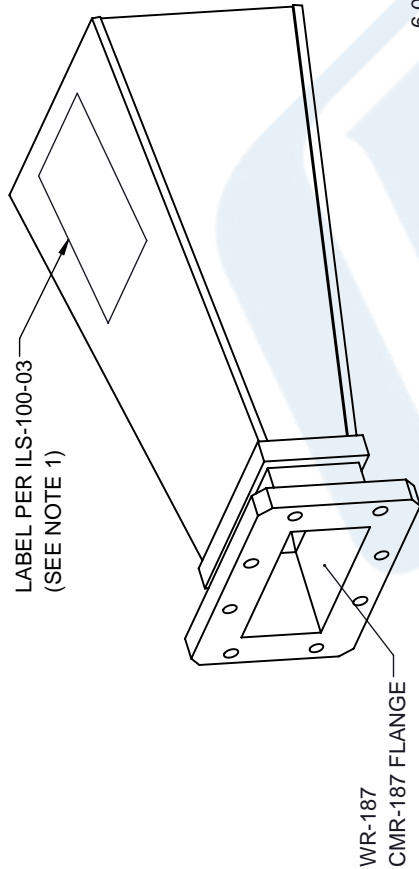
URL: <https://www.pasternack.com/wr-187-waveguide-gain-horn-antenna-10db-cmr-187-flange-pe9861b-10-p.aspx>

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# PE9861B-10 CAD Drawing

WR-187 Waveguide Standard Gain Horn Antenna, 3.95 GHz  
to 5.85 GHz Frequency Range, 10 dBi Gain, Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PE9861B-10 20210526	06/24/2020	KHIETPAS



- NOTES:
1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)  
LABEL LOCATION FOR REFERENCE ONLY

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

TOLERANCES:

.X = ± .2	[.508]	FRACTIONS
.XX = ± .02	[.51]	± 1/32
.XXX = ± .005	[.13]	ANGLES ± 1°

CABLE LENGTH (L) TOLERANCES:

L ≤ 12 [305]	± .125 [3.18]
12 [305] < L ≤ 60 [1524]	± .25 [6.35]
60 [1524] < L ≤ 120 [3048]	± .5 [12.7]
120 [3048] < L ≤ 300 [7620]	± 1 [25.4]
300 [7620] < L	± 5% [127]

ALL DIMENSIONS SHOWN  
ARE FOR REFERENCE ONLY.

**PE PASTERNAK**  
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SHEET 1 OF 1

SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	BPUCHASKI	PE9861B-10
REV	B		