



WR-137 Standard Waveguide Horn With CMR-137F Flange and 20 dB Typical Gain Operating From 5.85 GHz to 8.2 GHz Frequency Range

Waveguide Antennas Technical Data Sheet

PE9859B-20

Features

- WR-137 Rectangular Waveguide Interface
- 5.85 GHz to 8.2 GHz
- 20 dBi Nominal Gain
- CMR-137F Flange

Applications

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

Description

The PE9859B-20 WR-137 Proline series standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 20 dBi. This WR-137 standard gain horn has a CMR-137 type flange. The Pasternack 20 dBi WR-137 horn antenna operates from 5.85 GHz to 8.2 GHz. The WR-137 PE9859B-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-137 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-137 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-137 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	58.5		82	GHz
Nominal Gain		20		dB
VSWR		1.5:1		

Mechanical Specifications

Size	
Length	12.07 in [306.58 mm]
Width	6.45 in [163.83 mm]
Height	4.65 in [118.11 mm]
Weight	0.05 lbs [22.68 g]

Waveguide Interface

Waveguide Size	WR-137
Flange Type	CMR-137F

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-137 Standard Waveguide Horn With CMR-137F Flange and 20 dB Typical Gain Operating From 5.85 GHz to 8.2 GHz Frequency Range PE9859B-20](#)



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Body Material and Plating

Aluminum

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

Plotted and Other Data

WR-137 Standard Waveguide Horn With CMR-137F Flange and 20 dB Typical Gain Operating From 5.85 GHz to 8.2 GHz Frequency Range 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-137 Standard Waveguide Horn With CMR-137F Flange and 20 dB Typical Gain Operating From 5.85 GHz to 8.2 GHz Frequency Range PE9859B-20](#)

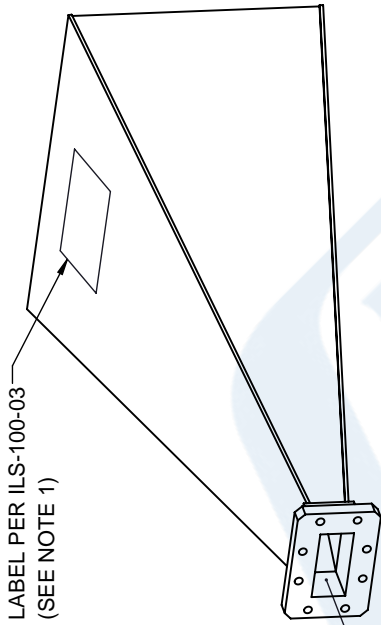
URL: <https://www.pasternack.com/wr-137-waveguide-gain-horn-antenna-20db-cpr-137f-flange-pe9859b-20-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack does not assume any liability arising out of the use of any part or documentation.

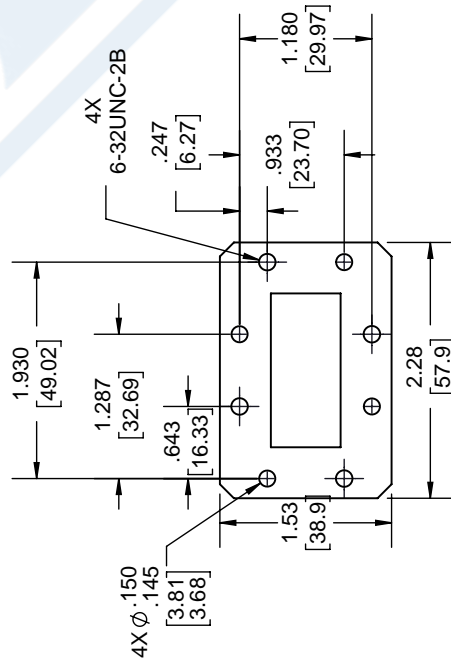
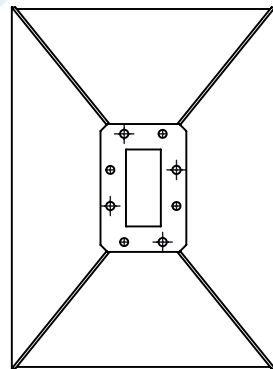
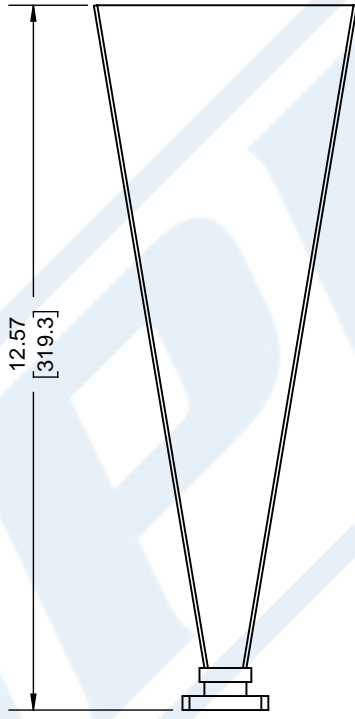
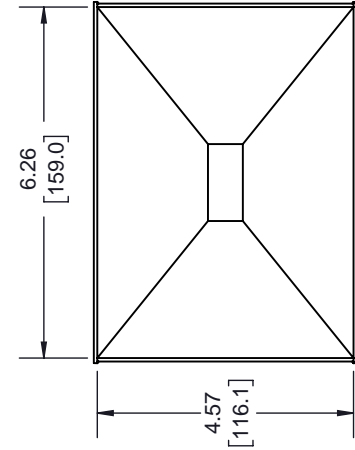
PE9859B-20 CAD Drawing

WR-137 Standard Waveguide Horn With CMR-137F Flange and 20 dB
Typical Gain Operating From 5.85 GHz to 8.2 GHz Frequency Range

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	PCR PE9859B-10 20210526	06/02/2021	KHIETPAS



WR-137
CMR-137 FLANGE



VIEW A-A

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

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

TOLERANCES:
.X = ±.2 [5.08] FRACTIONS ± 1/32
.XX = ±.02 [.51] ANGLES ± 1°
.XXX = ±.005 [.13] 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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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1
SCALE N/A

SIZE	CAGE CODE	DRAWN BY	ITEM NO.
A	53919	BPUCHASKI	PE9859B-20