PASTERNACK®
THE ENGINEER'S RF SOURCE

WR-137 Waveguide Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz With a Nominal 15 dBi Gain With CMR-137 Flange

Gain Horns Technical Data Sheet PE9859-15

Features

- Rectangular Waveguide Interface
- 5.85 GHz to 8.2 GHz
- 15 dBi Nominal Gain
- CMR-137 Flange

Applications

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

Description

Pasternack's PE9859-15 WR-137 waveguide standard gain horn antenna operating from 5.85 GHz to 8.2 GHz with a nominal 15 dBi gain is part of our full line of RF components available for same-day shipping. This Pasternack pyramidal horn antenna has a lightweight anodized aluminum body and a precision tolerance CMR-137 flange. The PE9859-15 WR-137 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 33.7 degrees of half power beam width.

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 across a broad bandwidth. Pasternack's WR-137 standard gain horns are available in 10, 15 and 20 dB models with pyramidal shape and rectangular waveguide input.

Configuration

Design	WR-137 Standard Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	5.85		8.2	GHz
Nominal Gain		15		dBi
Horizontal Half Power Beam Width		33.2		Degrees
Vertical Half Power Beam Width		33.7		Degrees

Electrical Specification Notes:
Half power beam width is calculated by computer simulation.

Mechanical Specifications

Size

Length	6.55 in [166.37 mm]
Width	3.525 in [89.54 mm]
Height	2.6 in [66.04 mm]
Weight	0.458 lbs [207.75 g]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-137 Waveguide Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz With a Nominal 15 dBi Gain With CMR-137 Flange PE9859-15

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623
Phone: (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451
Sales@Pasternack.com • Techsupport@Pasternack.com

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Waveguide Interface

Waveguide Size	WR-137
Flange Type	CMR-137
Body Material and Plating	Anodized Aluminum, Paint

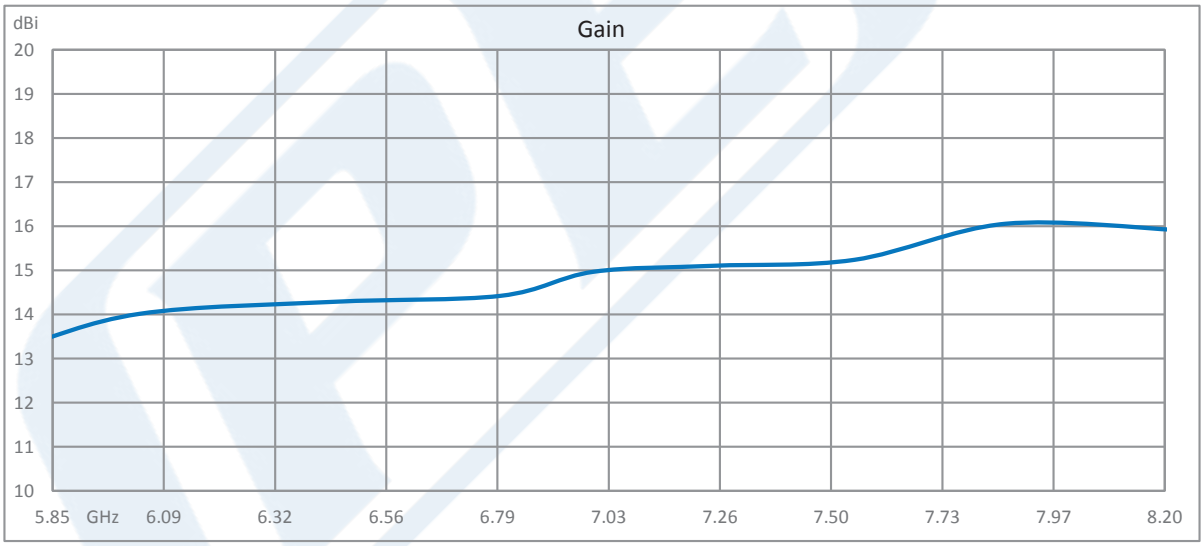
Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

Notes:

Typical Performance Data



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WR-137 Waveguide Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz With a Nominal 15 dBi Gain With CMR-137 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.

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URL: https://www.pasternack.com/standard-gain-horn-waveguide-size-wr137-pe9859-15-p.aspx

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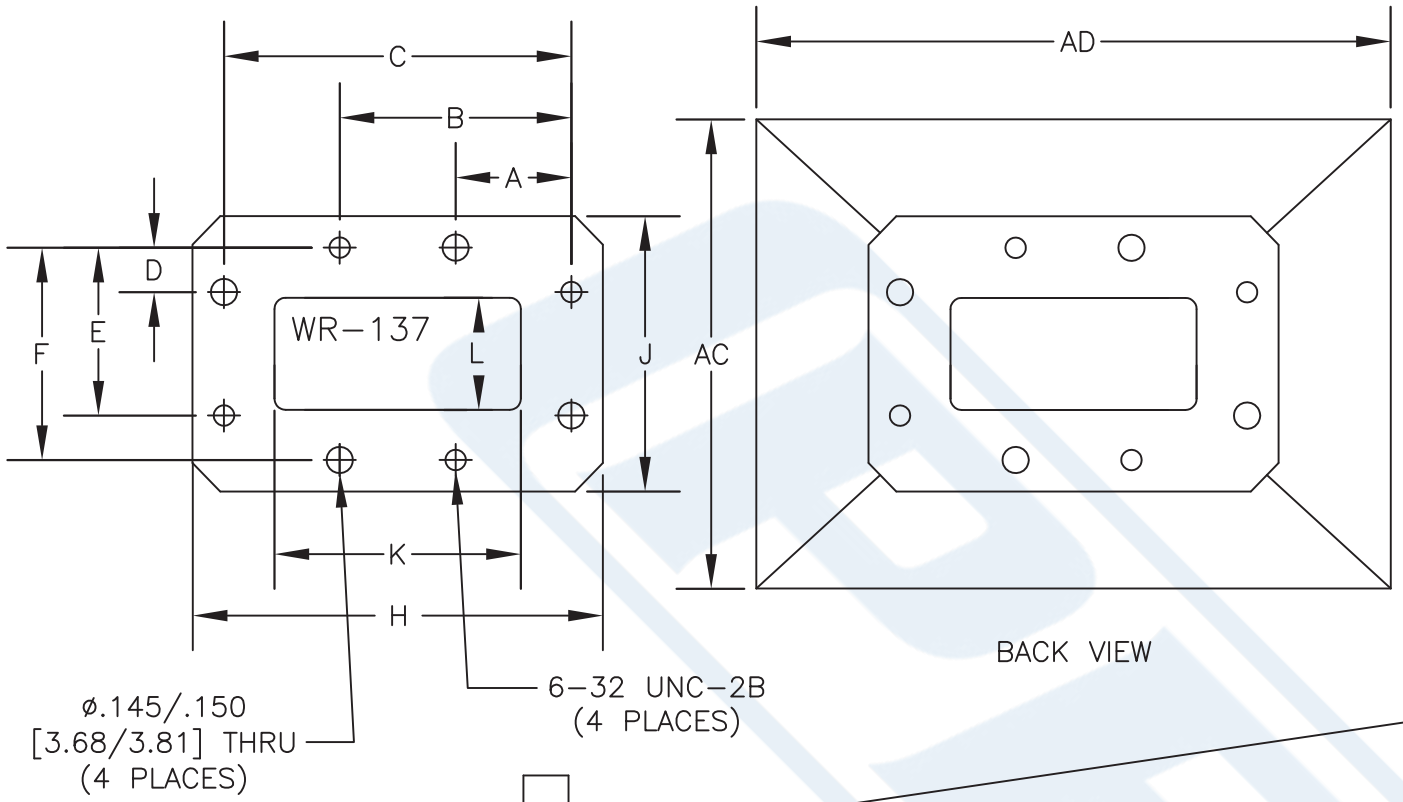
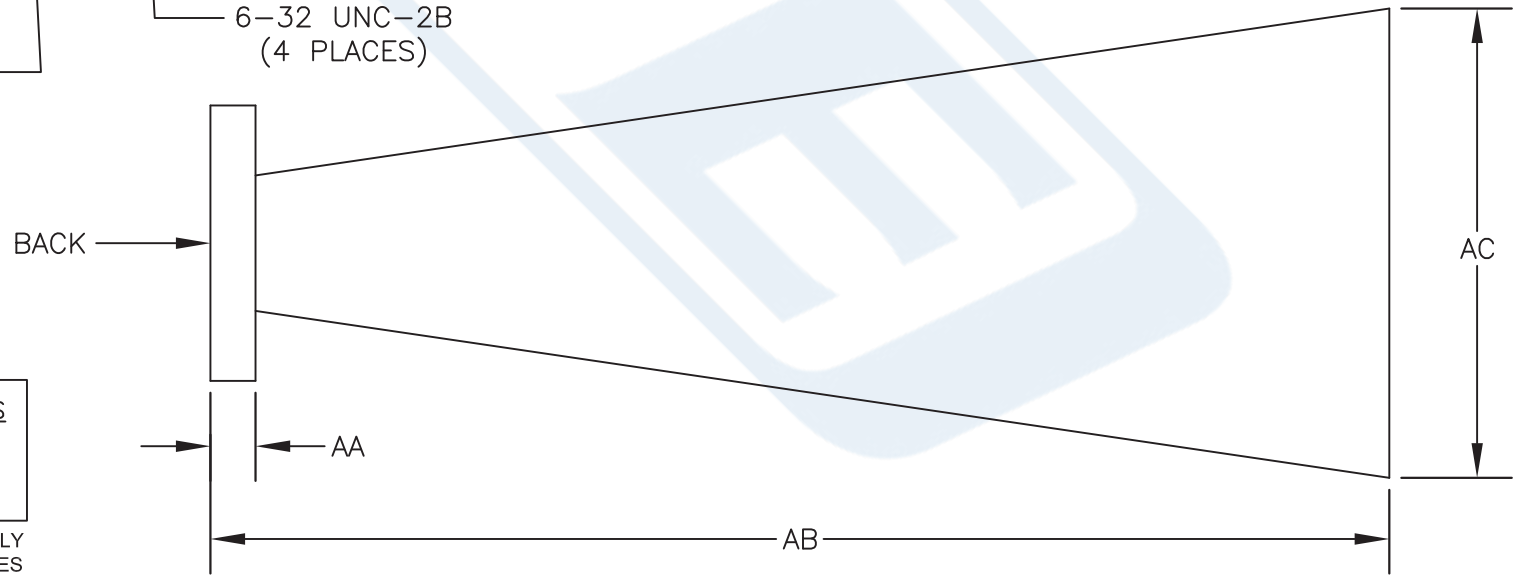
PE9859-15 CAD Drawing

WR-137 Waveguide Standard Gain Horn Antenna Operating From 5.85 GHz to 8.2 GHz With a Nominal 15 dBi Gain With CMR-137 Flange



WR137		
Dimension	Inches	mm
A	0.643	16.33
B	1.287	32.69
C	1.930	49.02
D	0.247	6.27
E	0.933	23.70
F	1.180	29.97
H	2.280	57.91
J	1.530	38.86
K (±0.004)	1.372	34.85
L (±0.004)	0.622	15.80

AA	0.250	6.35
AB	6.550	166.37
AC	2.600	66.04
AD	3.525	89.54



STANDARD TOLERANCES	
.X	±0.2
.XX	±0.1
.XXX	±0.05

*STANDARD TOLERANCES APPLY ONLY TO DIMENSIONS IN INCHES

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DWG TITLE

PE9859-15

NOTES:
1. UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE NOMINAL.
2. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE AT ANY TIME.
3. DIMENSIONS ARE IN INCHES [mm].

FSCM NO. 53919	CAD FILE 112116	SCALE N/A	SIZE A	41742