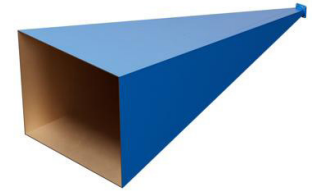


WR-90 Waveguide Standard Gain Horn Antenna Operating from 8.4 GHz to 12.4 GHz with a Nominal 30 dBi Gain with UG-135/U Square Cover Flange



PE9856B-30

Features

- WR-90 Rectangular Waveguide Interface
- 8.4 GHz to 12.4 GHz
- 30 dBi Nominal Gain
- UG-135/U Square Cover Flange

Applications

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

Description

Pasternack's PE9856B-30 WR-90 waveguide horn is also known as a waveguide horn antenna. This WR-90 standard gain horn waveguide antenna has a nominal gain of 30 dBi. Our waveguide horn can operate at frequencies ranging from 8.4 to 12.4 GHz. The standard gain horn antenna has a typical VSWR of 1.5:1 and is suitable for test and measurement industries. This 30 dBi waveguide horn from Pasternack has an overall length of 37.5 inches, a width of 16.19 inches, and a weight of 2 lbs. Our WR-90 waveguide horn antenna has a typical vertical beam width of 5 degrees and a horizontal beam width of 5 degrees at 3 dB.

Our antenna comes with a UG-135/U square cover flange and is built to precise microwave and millimeter wave horn antenna design specifications. This WR-90 standard gain horn antenna has an aluminum body. Additional dimensions and specifications for this antenna are on our downloadable PDF datasheet.

This WR-90 waveguide horn antenna with 30 dBi gain is part of over one million RF, microwave, and millimeter wave components available from Pasternack. Our horn antenna can ship worldwide on the same business day as it is purchased with our other available RF parts. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal waveguide horn that meets your requirements.

Configuration

Design
Pattern

WR-90 Standard Gain Horn
Directional

Electrical Specifications

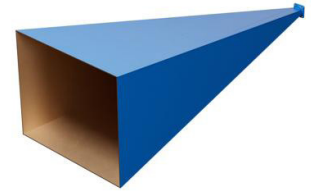
Description	Minimum	Typical	Maximum	Units
Frequency Range	8.4		12.4	GHz
Nominal Gain		30		dBi
Horizontal Half Power Beam Width		5		Degrees
Vertical Half Power Beam Width		5		
VSWR		1.5:1		

Mechanical Specifications

Size

Length	37.5 in [952.5 mm]
Width	16.19 in [411.23 mm]
Height	12.49 in [317.25 mm]
Weight	2 lbs [907.18 g]

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Waveguide Interface

Waveguide Size

WR-90

Flange Type

Square Cover

Flange Designation

UG-135/U

Body Material and Plating

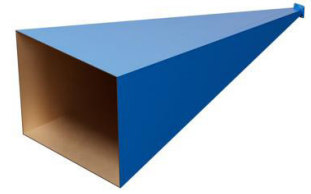
Aluminum, Paint

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

Plotted and Other Data

Notes:

WR-90 Waveguide Standard Gain Horn Antenna
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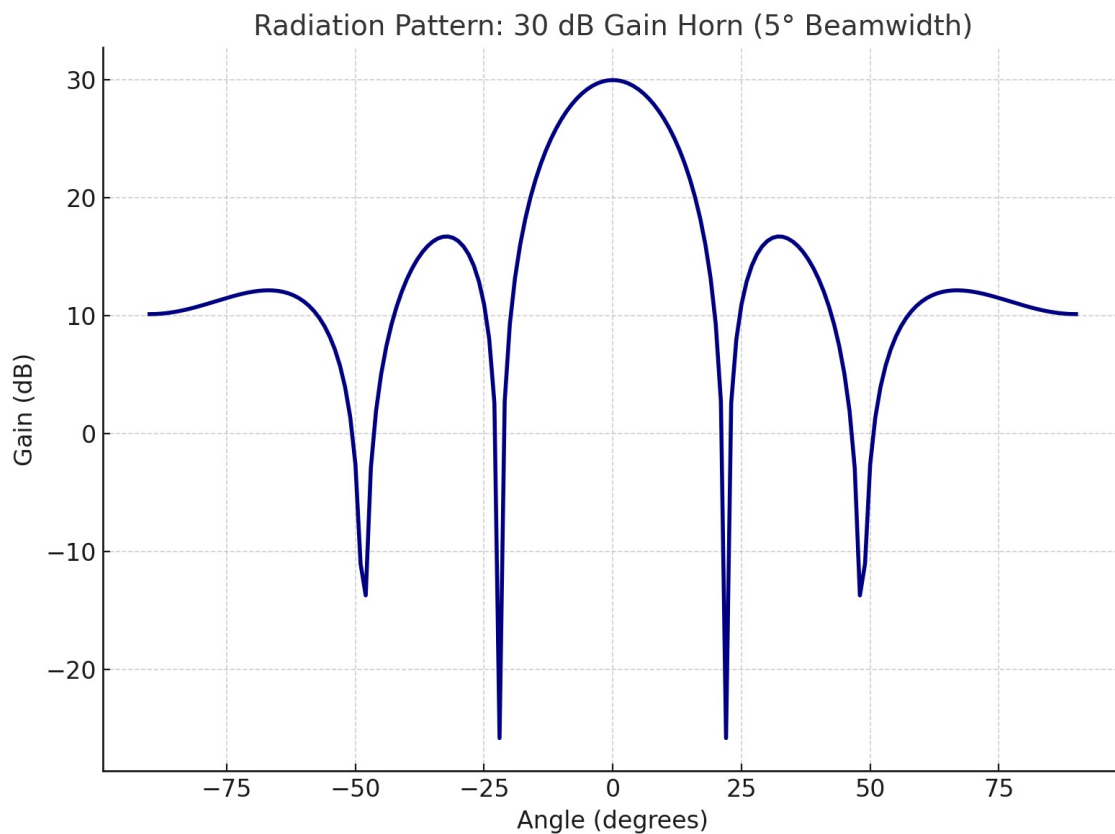


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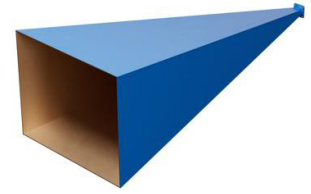
Typical Performance Data

30 dB STANDARD GAIN HORN

Typical Radiation Pattern



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WR-90 Waveguide Standard Gain Horn Antenna Operating from 8.4 GHz to 12.4 GHz with a Nominal 30 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 8.4 GHz to 12.4 GHz with a Nominal 30 dBi Gain with UG-135/U Square Cover Flange PE9856B-30](https://www.pasternack.com/wr-90-waveguide-gain-horn-antenna-30dbi-ug-135-square-flange-pe9856b-30-p.aspx)

URL: <https://www.pasternack.com/wr-90-waveguide-gain-horn-antenna-30dbi-ug-135-square-flange-pe9856b-30-p.aspx>

The information contained within 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 Enterprises reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. Pasternack Enterprises does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and Pasternack Enterprises does not assume liability arising out of the use of any part or document.

PE9856B-30 CAD Drawing

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