

WR-90 Waveguide Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz With a Nominal 10 dBi Gain With UG-135/U Square Cover Flange



Gain Horns Technical Data Sheet

Features

- Rectangular Waveguide Interface
- 8.2 GHz to 12.4 GHz

Applications

- Antenna Measurements
- Wireless Communication

10 dBi Nominal Gain

UG-135/U Square Cover Flange

Description

Pasternack's PE9856-10 WR-90 waveguide standard gain horn antenna operating from 8.2 GHz to 12.4 GHz with a nominal 10 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 UG-135/U square cover flange. The PE9856-10 WR-90 waveguide standard gain horn antenna offers low gain variation across its operating frequency range and 48.5 degrees of half power beam width.

Microwave Radio Systems

Laboratory Use

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-90 standard gain horns are available in 10, 15 and 20 dB models with pyramidal shape and rectangular waveguide input.

Configuration

Design Pattern Polarization WR-90 Standard Gain Horn Directional Linear

Electrical Specifications

Minimum	Typical	Maximum	Units
8.2		12.4	GHz
	10		dBi
	47.4		Degrees
	48.5		Degrees
		8.2 10 47.4	8.2 12.4 10 47.4

Electrical Specification Notes:

Half power beam width is calculated by computer simulation.

Mechanical Specifications

Size	
Length	2 in [50.8 mm]
Width	1.63 in [41.4 mm]
Height	1.63 in [41.4 mm]
Weight	0.1304 lbs [59.15 g]

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 8.2 GHz to 12.4 GHz With a Nominal 10 dBi Gain With UG-135/U Square Cover Flange PE9856-10

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 Flange Type Flange Designation Body Material and Plating

WR-90 Square Cover UG-135/U 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-90 Waveguide Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz With a Nominal 10 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.

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URL: https://www.pasternack.com/standard-gain-horn-waveguide-size-wr90-pe9856-10-p.aspx

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PE9856-10 CAD Drawing WR-90 Waveguide Standard Gain Horn Antenna Operating From 8.2 GHz to 12.4 GHz With a Nominal 10 dBi Gain With UG-135/U Square Cover Flange

