





Technical Data Sheet

PE9856B/NF-20

Features

- WR-90 Rectangular Waveguide Interface
- 8.2 GHz to 12.4 GHz

- · 20 dBi Nominal Gain
- Type N Female Connector

Applications

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

Description

The Proline series PE9856B/NF-20 standard gain horn antenna (also known as waveguide horn) from Pasternack is part of our huge selection of waveguide antennas. This Pasternack standard gain horn antenna is manufactured with a WR-90 input and a waveguide to coaxial transition adapter. Our WR-90 standard gain horn antenna has a nominal gain of 20 dBi. This WR-90 standard gain horn has a Type N waveguide to coax transition adapter that is female gender. The Pasternack 20 dBi WR-90 horn antenna operates from 8.2 GHz to 12.4 GHz. The WR-90 PE9856B/NF-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, such as the PE9856B/NF-20, 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 Type N female WR-90 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-90 standard gain horn Proline antennas with Type N female interface can ship worldwide the same day as it is purchased as with our other available RF parts.

Configuration

Design Pattern Polarization

Polarization Coaxial Interface WR-90 Standard Gain Horn

Directional Linear N Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	8.2		12.4	GHz
Impedance		50		Ohms
Waveguide Standard Gain Horn				
Gain		20		dB
Horizontal Half Power Beam Width		16.1		Degrees
Vertical Half Power Beam Width		16.5		Degrees
Waveguide to Coaxial Adapter				
Input VSWR			1.3:1	

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 20 dB Gain N Female Input PE9856B/NF-20

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WR-90 Waveguide Standard Gain Horn Antenna Operating from 8.2 GHz to 12.4 GHz with a Nominal 20 dB Gain N Female Input



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Mechanical Specifications

Size

Weight 0.5 lbs [226.8 g]

RF Connector

Type N Female

Waveguide Interface

Waveguide Size WR-90
Flange Designation UG-135/U
Body Material and Plating Aluminum

Environmental Specifications

Compliance Certifications (see product page for current document)

Plotted and Other Data

2 Dimensional OML Drawing PE9856B/NF-20

Notes:

WR-90 Waveguide Standard Gain Horn Antenna Operating from 8.2 GHz to 12.4 GHz with a Nominal 20 dB Gain N Female Input 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/wr-90-waveguide-standard-gain-horn-antenna-20-db-n-pe9856b-nf-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.

PE9856B/NF-20 CAD DrawingWR-90 Waveguide Standard Gain Horn Antenna Operating from 8.2 GHz to 12.4 GHz with a Nominal 20 dB Gain N Female Input

