

WR-42 Waveguide Standard Gain Horn Antenna

Operating from 18 GHz to 26.5 GHz with a
Nominal 30 dBi Gain 2.92mm Female Input



PE9852B-2F-30

Features

- WR-42 Rectangular Waveguide Interface
- 18 GHz to 26.5 GHz
- 30 dBi Nominal Gain
- Type 2.92mm Female Connector

Applications

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

Description

The Pasternack PE9852B-2F-30 Proline series standard gain horn antenna (also known as waveguide horn) is part of our huge selection of waveguide antennas. This Pasternack standard gain horn antenna is manufactured with a WR-42 input and a Type 2.92mm waveguide to coaxial transition adapter. Our standard gain horn antenna, WR-42 has a 30 dBi nominal gain. This WR-42 standard gain horn from Pasternack has a female Type 2.92mm waveguide to coax transition adapter.

The 30 dBi Pasternack WR-42 horn antenna operates from 18GHz to 26.5 GHz. Pasternack's Type 2.92mm female WR-42The 30 dBi Pasternack WR-42 horn antenna operates from 18 GHz to 26.5 GHz. Pasternack's Type 2.92mm female WR-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. It is part of over 40,000 RF, microwave and millimeter wave components available at Pasternack.

Waveguide standard gain horn antennas, such as the PE9852B-2F-30, are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. The WR-42 PE9852B-2F-30 waveguide horn is US made and TAA compliant. Our WR-42 standard gain horn Proline antennas with Type 2.92mm female interface can ship same day to anywhere in the world.

Configuration

Design	WR-42
Pattern	Directional
Coaxial Interface	2.92mm Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
Gain		30		
Horizontal Half Power Beam Width		5		Degrees
Vertical Half Power Beam Width		5		
Waveguide to Coaxial Adapter				
VSWR			1.4:1	

Mechanical Specifications

Size	
Length	17.16 in [435.86 mm]
Width	7.59 in [192.79 mm]
Height	5.866 in [149 mm]
Weight	0.44 lbs [199.58 g]

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RF Connector

Type	2.92mm Female
Contact Material Plating	Stainless Steel

Waveguide Interface

Waveguide Size	WR-42
Flange Type	Square Cover
Flange Designation	UG-597/U
Body Material and Plating	Aluminum

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

Plotted and Other Data

Notes:

Typical Performance Data

WR-42 Waveguide Standard Gain Horn Antenna Operating from 18 GHz to 26.5 GHz with a Nominal 30 dB Gain 2.92mm 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-42 Waveguide Standard Gain Horn Antenna Operating from 18 GHz to 26.5 GHz with a Nominal 30 dB Gain 2.92mm Female Input PE9852B-2F-30](#)

URL: <https://www.pasternack.com/wr-42-waveguide-standard-gain-horn-antenna-30-db-2.92mm-pe9852b-2f-30-p.aspx>

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PE9852B-2F-30 CAD Drawing

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