

WR-159 Standard Gain Horn with 10 dBi Gain, SMA Female Connector with Weather Resistant Radome Cover



PE3WAN159-10SF

Features

- 4.9 GHz to 7.05 GHz
- WR-159 Waveguide Band
- 10 dBi Nominal Gain
- SMA Female Connector
- Ruggedized Aluminum Cage-Style Mount
- Integrates with Positioning Systems

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test Solutions
- Radar Cross Section
- Satellite Antenna Testing

Description

The PE3WAN159-10SF standard gain horn antenna (also known as a waveguide horn antenna) is part of our huge selection of waveguide antennas. Pasternack's standard gain horn antenna is manufactured with a weather-resistant radome cover and a waveguide to coaxial transition adapter. Our WR-159 waveguide antenna features an SMA female connector. This antenna is suitable for applications such as antenna measurements, wireless communication, laboratory use, microwave radio systems, radome testing, automotive antenna test solutions, radar cross section, and satellite antenna testing.

Our WR-159 standard gain horn antenna with an SMA female input has a minimum frequency of 4.9 GHz and a maximum frequency of 7.05 GHz. Pasternack's PE3WAN159-10SF waveguide horn antenna with a weather-resistant radome cover has a typical gain of 10 dBi. Our waveguide antenna has a typical vertical beam width of 51.6 degrees and a horizontal beam width of 52.1 degrees at 3 dB. This antenna has a length of 4.92 inches, a width of 2.41 inches, and a weight of 0.55 lbs.

This WR-159 waveguide horn antenna with 10 dBi gain is part of over one million RF, microwave, and millimeter wave components available from Pasternack. Additional dimensions and specifications for this antenna are available on our downloadable PDF datasheet. Our standard gain horn antenna with an SMA female interface can ship worldwide the same business day that it is purchased, as 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	WR-159
Coaxial Interface	SMA Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.9		7.05	GHz
Gain		10		dBi
Horizontal Half Power Beam Width		52.1		Degrees
Vertical Half Power Beam Width		51.6		Degrees
Waveguide to Coaxial Adapter				
VSWR			1.3:1	

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Mechanical Specifications

Size

Length	4.92 in [124.97 mm]
Width	2.417 in [61.39 mm]
Height	1.94 in [49.28 mm]
Weight	0.5505 lbs [249.7 g]

RF Connector

Type	SMA Female
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Waveguide Interface

Waveguide Size	WR-159
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

Typical Performance Data

WR-159 Standard Gain Horn with 10 dBi Gain, SMA Female Connector with Weather Resistant Radome Cover 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-159 Standard Gain Horn with 10 dBi Gain, SMA Female Connector with Weather Resistant Radome Cover PE3WAN159-10SF](#)

URL: <https://www.pasternack.com/wr-159-waveguide-standard-gain-horn-antenna-10-dbi-sma-pe3wan159-10sf-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.

PE3WAN159-10SF CAD Drawing

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