



## WR-51 Waveguide Standard Gain Horn Antenna Operating from 15 GHz to 22 GHz with a Nominal 15 dB Gain SMA Female Input

#### **Technical Data Sheet**

PE9853B/SF-15

#### **Features**

- WR-51 Rectangular Waveguide Interface
- 15 GHz to 22 GHz

- 15 dBi Nominal Gain
- SMA Female Connector

#### **Applications**

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

### Description

The Proline series PE9853B/SF-15 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-51 input and a waveguide to coaxial transition adapter. Our WR-51 standard gain horn antenna has a nominal gain of 15 dBi. This WR-51 standard gain horn has a SMA waveguide to coax transition adapter that is female gender.

The Pasternack 15 dBi WR-51 horn antenna operates from 15 GHz to 22 GHz. The WR-51 PE9853B/SF-15 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 PE9853B/SF-15, 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 SMA female WR-51 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-51 standard gain horn Proline antennas with SMA female interface can ship worldwide the same day as it is purchased as with our other available RF parts.

#### Configuration

Design WR-51 Standard Gain Horn

Pattern Directional Linear Coaxial Interface SMA Female

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	15		22	GHz
mpedance		50		Ohms
Naveguide Standard Gain Horn				
Gain		15		dB
Horizontal Half Power Beam Width		32		Degrees
Vertical Half Power Beam Width		31.8		Degrees
Naveguide 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-51 Waveguide Standard Gain Horn Antenna Operating from 15 GHz to 22 GHz with a Nominal 15 dB Gain SMA Female Input PE9853B/SF-15

Pasternack Enterprises, Inc. • P.O. Box 16759, Irvine, CA 92623 **Phone:** (866) 727-8376 or (949) 261-1920 • **Fax:** (949) 261-7451

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Mechanical Specifications
Size

**RF Connector** 

Type SMA Female

**Waveguide Interface** 

Waveguide Size WR-51
Body Material and Plating Aluminum

**Environmental Specifications** 

Compliance Certifications (see product page for current document)

**Plotted and Other Data** 

2 Dimensional OML Drawing PE9853B/SF-15

Notes:

WR-51 Waveguide Standard Gain Horn Antenna Operating from 15 GHz to 22 GHz with a Nominal 15 dB Gain SMA 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-51-waveguide-standard-gain-horn-antenna-15-db-sma-pe9853b-sf-15-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.

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PE9853B/SF-15 CAD Drawing
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