

# **Technical Data Sheet**

# **PEWAN102-20SM**

#### Features

• 7 GHz to 11 GHz

Laboratory Use

WR-102 Waveguide Band

#### **Applications**

- Antenna MeasurementsWireless Communication
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test

Solutions

- Radar Cross Section
- Satellite Antenna Testing

#### Description

The PEWAN102-20SM standard gain horn antenna (also known as waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. This standard gain horn is mated with a WR-102 to SMA Male waveguide to coaxial adapter and operates from 7 GHz to 11 GHz.

Our PEWAN102-20SM standard gain horn antenna has a nominal gain of 20 dBi with a Horizontal and Vertical HPBW (Half Power Beam Width) of 17.5 dB and 17.3 dB respectively. Pasternack's SMA Male to WR-102 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PEWAN102-20SM are used in a wide variety of applications due to the high-power handling capability, low loss, high directivity, and near constant electrical performance. Our WR-102 waveguide antennas with SMA Male interface is part of over 40,000 RF, microwave and millimeter wave components from Pasternack available worldwide and Ship same day.

#### Configuration

Design Coaxial Interface WR-102 Standard Gain Horn SMA Male

20 dBi Nominal Gain

SMA Male Connector

#### **Electrical Specifications**

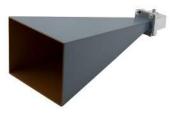
Description	Minimum	Typical	Maximum	Units
requency Range	7		11	GHz
Vaveguide Standard Gain Horn				
Gain		20		dBi
Horizontal Half Power Beam Width		17.5		Degrees
Vertical Half Power Beam Width		17.3		Degrees

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-102 Standard Gain Horn with 20 dBi gain, SMA Male connector PEWAN102-20SM









### **PEWAN102-20SM**

Mechanical Specifications				
Length Width Height	11.563 in [293.7 mm] 4.988 in [126.7 mm] 3.701 in [94.01 mm]			
Weight	1.0468 lbs [474.82 g]			
<b>RF Connector</b> Type	SMA Male			
Waveguide Interface Waveguide Size	WR-102			
Environmental Specifications				
Compliance Certifications (see product page for current document)				
Plotted and Other Data Notes:				

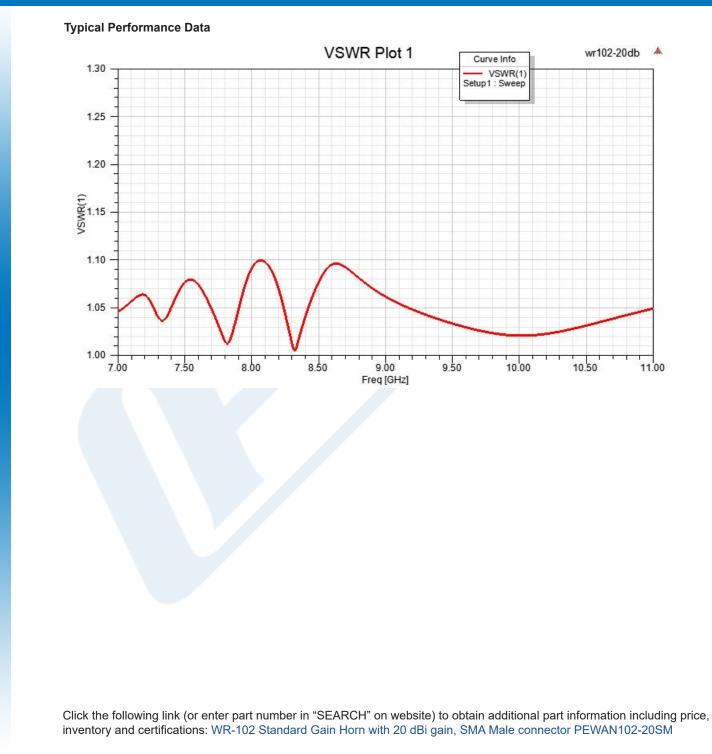
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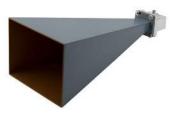


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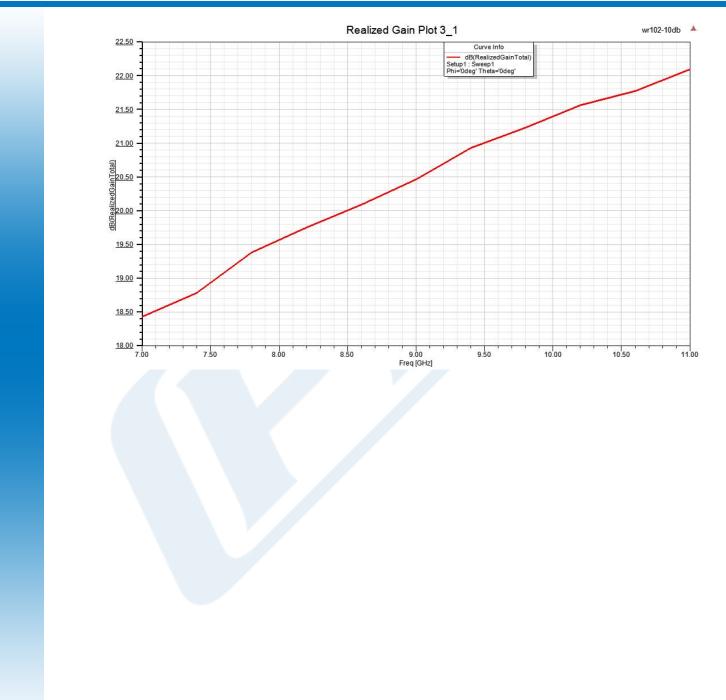
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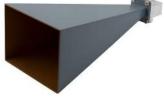


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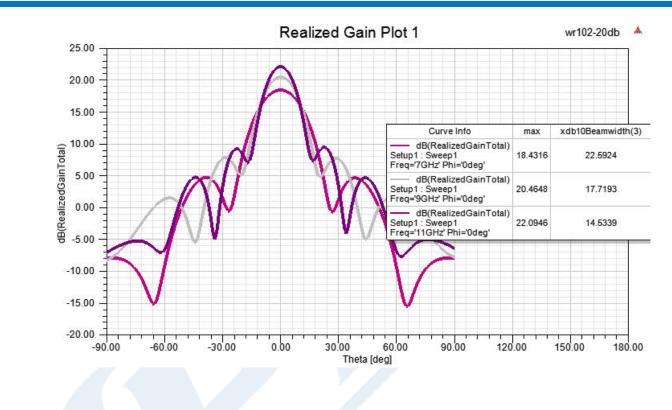




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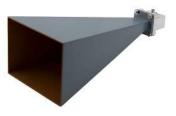
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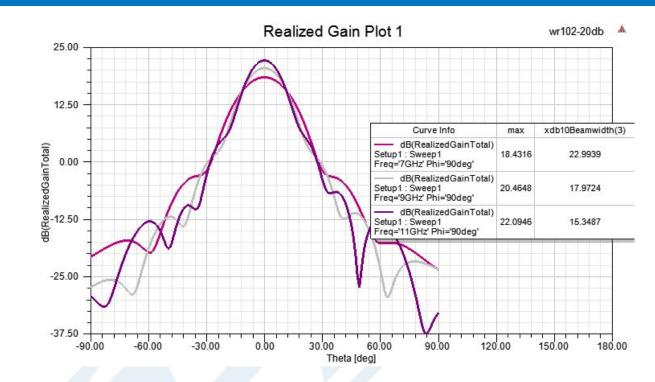






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## **PEWAN102-20SM**



WR-102 Standard Gain Horn with 20 dBi gain, SMA Male connector 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:

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.



**PEWAN102-20SM CAD Drawing** WR-102 Standard Gain Horn with 20 dBi gain, SMA Male connector

