

Technical Data Sheet



PEWAN051-20SF

Features

• 15 GHz to 22 GHz

Laboratory Use

• WR-51 Waveguide Band

Applications

- Antenna MeasurementsWireless Communication
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test
- Solutions
- Radar Cross Section
- Satellite Antenna Testing

Description

The PEWAN051-20SF 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-51 to SMA Female waveguide to coaxial adapter and operates from 15 GHz to 22 GHz.

Our PEWAN051-20SF 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 Female to WR-51 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PEWAN051-20SF 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-51 waveguide antennas with SMA Female 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-51 Standard Gain Horn SMA Female

20 dBi Nominal Gain

SMA Female Connector

Electrical Specifications

| Description | Minimum | Typical | Maximum | Units |
|----------------------------------|---------|---------|---------|---------|
| Frequency Range | 15 | | 22 | GHz |
| Waveguide 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-51 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN051-20SF

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



1



Technical Data Sheet



PEWAN051-20SF

| Mechanical Specifications Size | | | | | |
|---|---|--|--|--|--|
| Length Width Height | 6.672 in [169.47 mm] 2.493 in [63.32 mm] 1.85 in [46.99 mm] | | | | |
| Weight | 0.323 lbs [146.51 g] | | | | |
| RF Connector Type | SMA Female | | | | |
| Waveguide Interface Waveguide Size | WR-51 | | | | |
| Environmental Specifications | | | | | |
| Compliance Certifications (see product page for current document) | | | | | |
| Plotted and Other Data Notes: | | | | | |
| | | | | | |
| | | | | | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-51 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN051-20SF

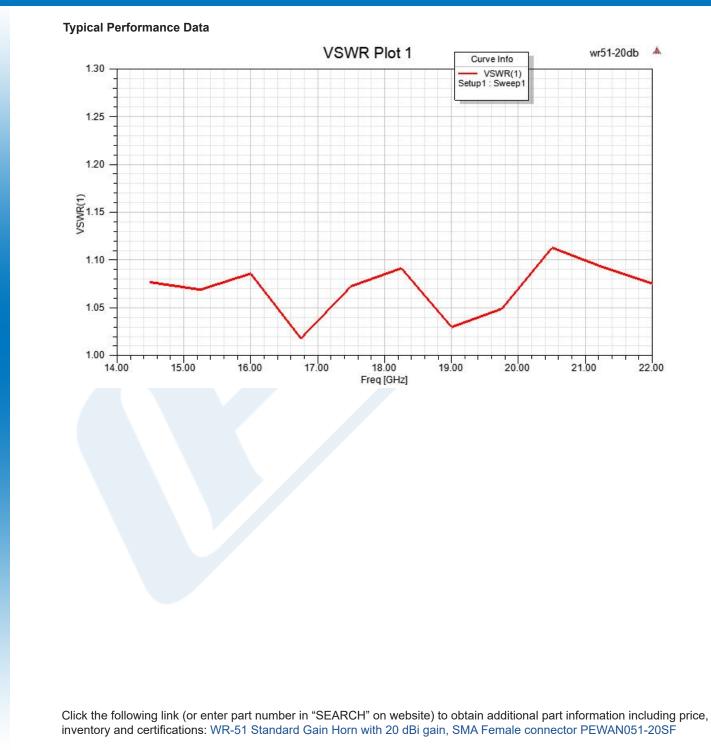




Technical Data Sheet



PEWAN051-20SF



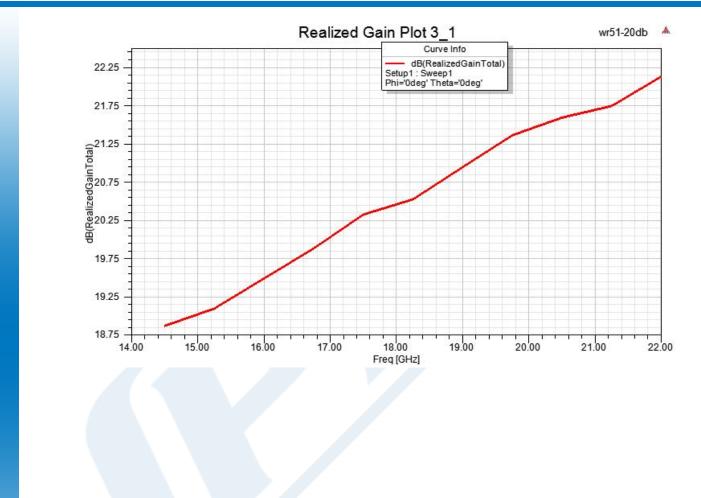






Technical Data Sheet

PEWAN051-20SF



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-51 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN051-20SF

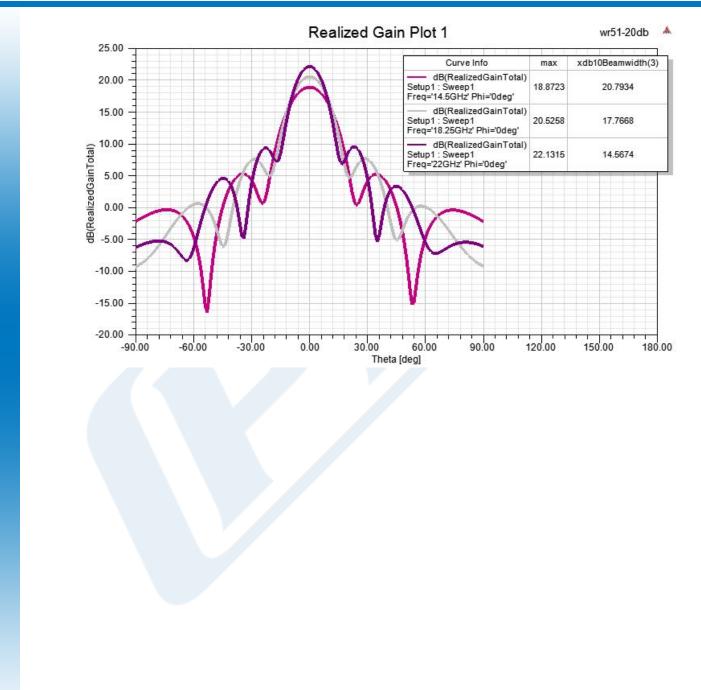






Technical Data Sheet

PEWAN051-20SF



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-51 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN051-20SF

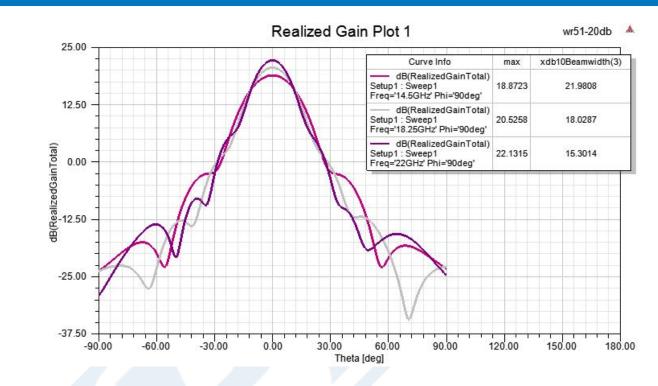






Technical Data Sheet

PEWAN051-20SF



WR-51 Standard Gain Horn with 20 dBi gain, SMA Female 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-51 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN051-20SF

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.



PEWAN051-20SF CAD Drawing

WR-51 Standard Gain Horn with 20 dBi gain, SMA Female connector

