

## **Technical Data Sheet**



## PEWAN042-20SF

#### Features

• 18 GHz to 26.5 GHz

Laboratory Use

· WR-42 Waveguide Band

#### **Applications**

- Antenna MeasurementsWireless Communication
- Microwave Radio Systems
- Radome TestingAutomotive Antenna Test
- Solutions

  Radar Cross Section
- Satellite Antenna Testing

#### Description

The PEWAN042-20SF 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-42 to SMA Female waveguide to coaxial adapter and operates from 18 GHz to 26.5 GHz.

Our PEWAN042-20SF 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-42 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PEWAN042-20SF 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-42 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-42 Standard Gain Horn SMA Female

20 dBi Nominal Gain

SMA Female Connector

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	18		26.5	GHz
Naveguide 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-42 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN042-20SF





# **Technical Data Sheet**



### PEWAN042-20SF

Mechanical Specifications Size	
Length Width Height	4.951 in [125.76 mm] 2.054 in [52.17 mm] 1.524 in [38.71 mm]
Weight	0.1229 lbs [55.75 g]
<b>RF Connector</b> Type	SMA Female
Waveguide Interface Waveguide Size	WR-42
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-42 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN042-20SF

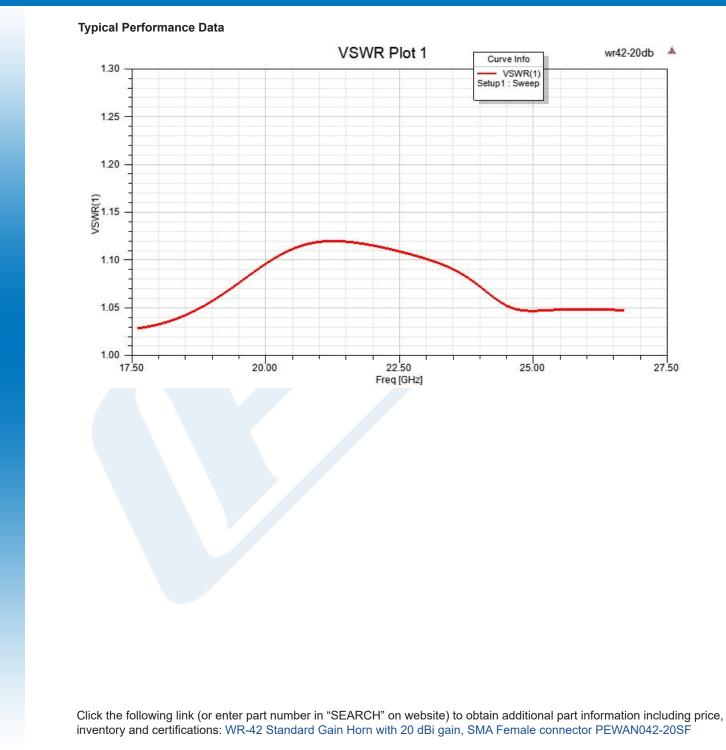




### **Technical Data Sheet**



## PEWAN042-20SF



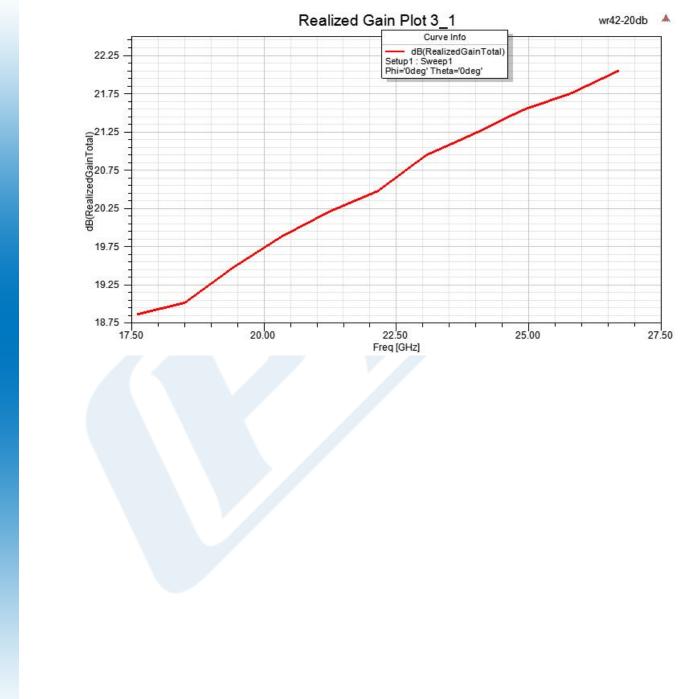






### **Technical Data Sheet**

## PEWAN042-20SF



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-42 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN042-20SF

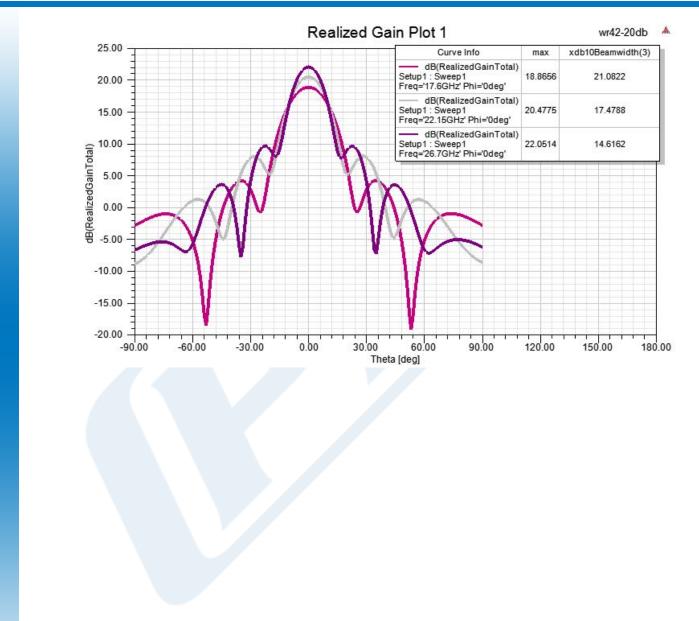






### **Technical Data Sheet**

### PEWAN042-20SF



Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: WR-42 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN042-20SF

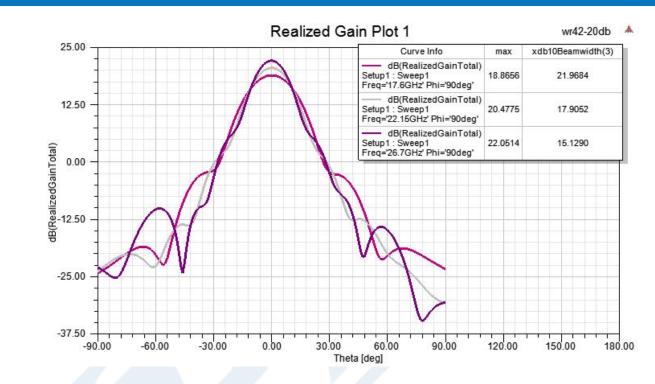






### **Technical Data Sheet**

### PEWAN042-20SF



WR-42 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-42 Standard Gain Horn with 20 dBi gain, SMA Female connector PEWAN042-20SF

URL: https://www.pasternack.com/wr-42-waveguide-standard-gain-horn-antenna-20-dbi-sma-pewan042-20sf-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.

# PEWAN042-20SF CAD Drawing

WR-42 Standard Gain Horn with 20 dBi gain, SMA Female connector

