



WR-62 Standard Gain Horn with 20 dBi gain, End Launch SMA Female connector, Integrated Cage-Style Mount

Technical Data Sheet

PE1WAN062-20ELSF

Features

- 12.4 GHz to 18 GHz
- WR-62 Waveguide Band
- 20 dBi Nominal Gain

- SMA Female End Launch 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 PE1WAN062-20ELSF standard gain horn antenna with integrated cage-style mount (also known as waveguide horn) from Pasternack is part of our comprehensive selection of waveguide antennas. The cage-style mount is a ruggedized aluminum mounting solution that integrates with test and measurement positioning systems, ensuring precise alignment and protection of the antenna. This standard gain horn is mated with a WR-62 to SMA Female End Launch waveguide to coaxial adapter and operates from 12.4 GHz to 18 GHz.

Our PE1WAN062-20ELSF standard gain horn antenna with integrated cage-style mount 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 End Launch to WR-62 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PE1WAN062-20ELSF 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-62 waveguide antennas with SMA Female End Launch 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-62 Standard Gain Horn
SMA Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	12.4		18	GHz
Waveguide Standard Gain Horn				
Gain		20		dBi
Horizontal Half Power Beam Width		17.5		Degrees
Vertical Half Power Beam Width		17.3		Degrees
Waveguide to Coaxial Adapter				
Input VSWR			1.4:1	

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-62 Standard Gain Horn with 20 dBi gain, End Launch SMA Female connector, Integrated Cage-Style Mount PE1WAN062-20ELSF](#)

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Mechanical Specifications

Size

Length

4.724 in [119.99 mm]

Width

4.724 in [119.99 mm]

Height

9.84 in [249.94 mm]

Weight

1.14445 lbs [519.11 g]

RF Connector

Type

SMA Female
End Launch

Specification

Waveguide Interface

Waveguide Size

WR-62

Environmental Specifications

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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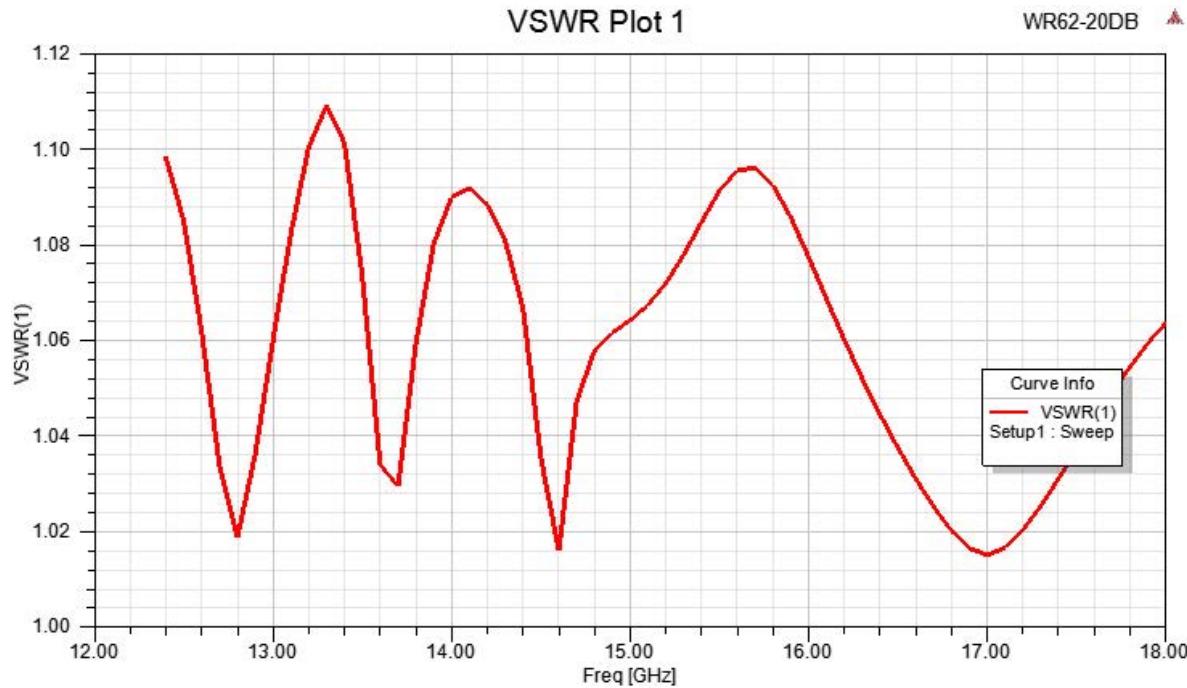
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Typical Performance Data



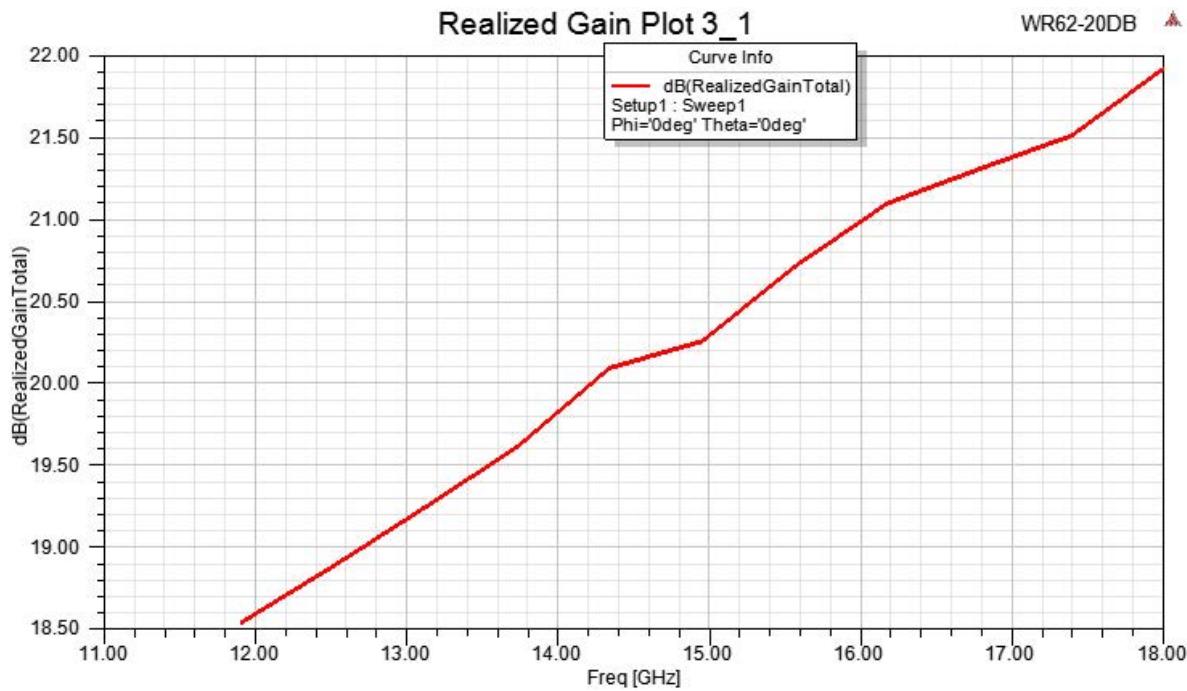
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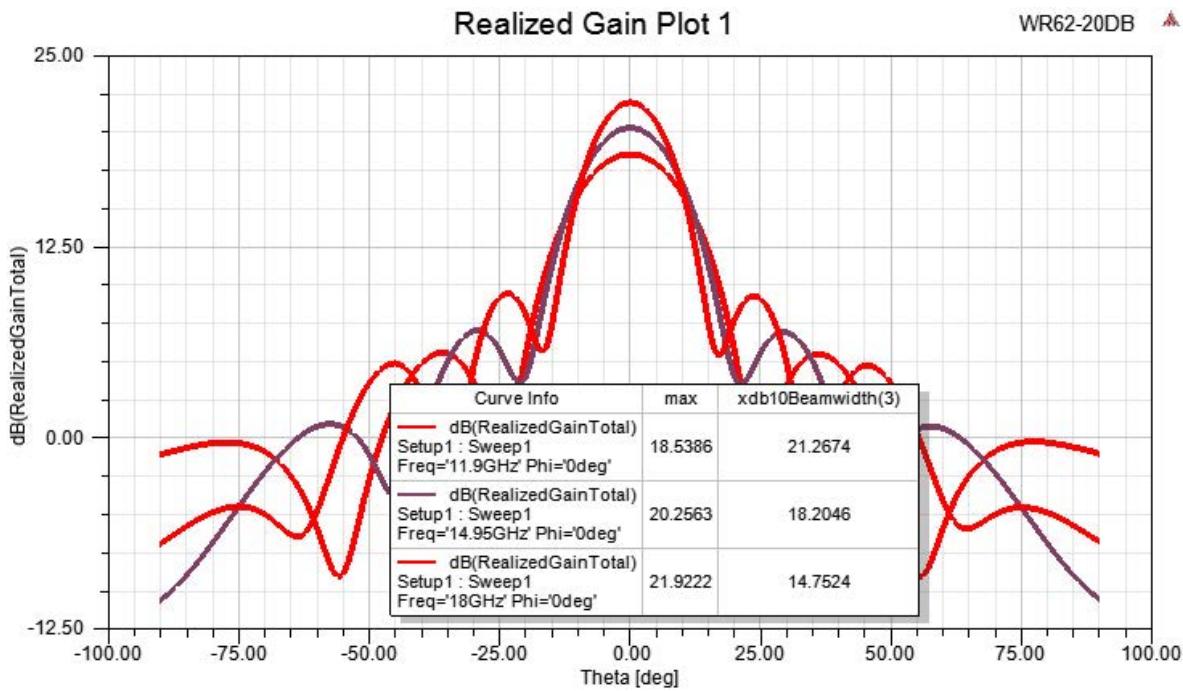
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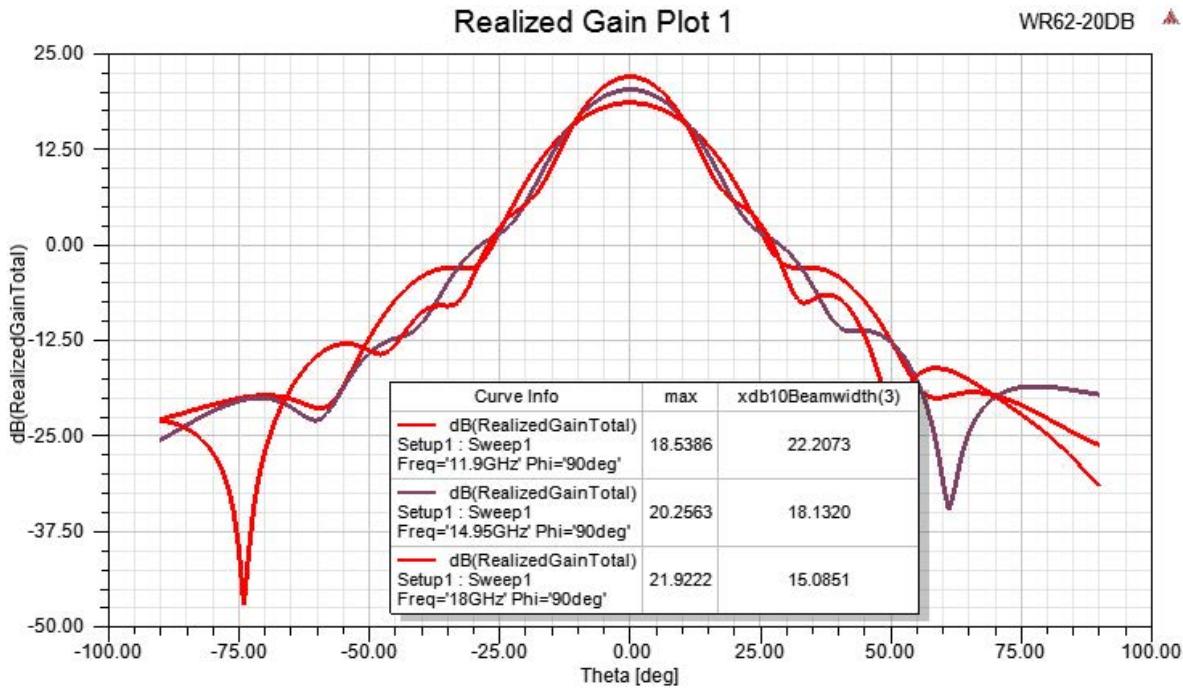
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WR-62 Standard Gain Horn with 20 dBi gain, End Launch SMA Female connector, Integrated Cage-Style Mount from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the broadest selection in the industry.

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URL: <https://www.pasternack.com/wr-62-standard-gain-horn-with-20-dbi-gain-end-launch-sma-female-connector-integrated-cage-style-mount-pe1wan062-20elsf-p.aspx>

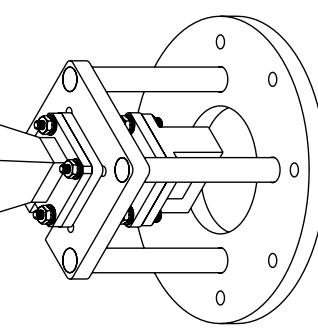
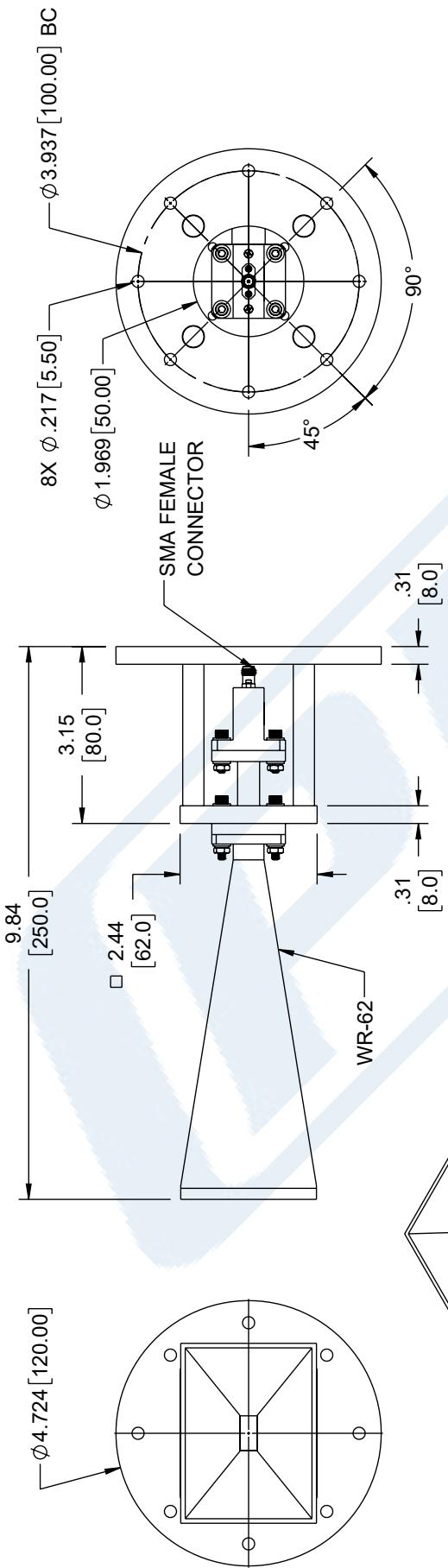
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such 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.

PE1WAN062-20ELSF CAD Drawing

WR-62 Standard Gain Horn with 20 dBi gain, End Launch SMA

Female connector, Integrated Cage-Style Mount

ZONE	REV	DESCRIPTION	REVISION	DATE	CHANGED BY	APPROVED
	A	INITIAL RELEASE		10/20/2023	HBAKKE	KHIEITPAS



UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS		
TOLERANCES:		
$X = \pm 0.02$	$\frac{1}{32}$	FRACTIONS
$XX = \pm 0.05$	$\pm 1/32$	
$XXX = \pm 0.13$		ANGLES $\pm 1^\circ$
CABLE LENGTH TOLERANCES:		
$\leq 12 [305]$	$\pm 1 [25]$	$\leq 12 [305] = \pm 1 [25] = \pm 0.5 [12.5]$
$\geq 12 [305] \text{ to } 60 [1524]$	$\pm 2 [51]$	$\geq 12 [305] = \pm 2 [51] = \pm 1 [50.8]$

WR-62 STANDARD GAIN HORN WITH 20 DB GAIN, END LAUNCH SMA FEMALE CONNECTOR WITH PRE-INSTALLED CAGE-STYLE MOUNT

REV. NO. A
ITEM NO. PE1WAN062-20ELSF
1
DRAWN BY HBAKKE
CAGE CODE 53919
SIZE A

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PE1WAN062-20E1 SE REV 1

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