

WR-62 Standard Gain Horn with 20 dBi gain, SMA Male connector

Technical Data Sheet

PEWAN062-20SM

Features

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

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems
- Radome Testing
- Automotive Antenna Test
- Solutions
- Radar Cross Section
- Satellite Antenna Testing

Description

The PEWAN062-20SM 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-62 to SMA Male waveguide to coaxial adapter and operates from 12.4 GHz to 18 GHz.

Our PEWAN062-20SM 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-62 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and connectorized input.

Waveguide antennas, such as the PEWAN062-20SM 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-62 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.

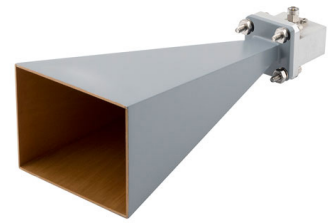
Configuration

Design: WR-62 Standard Gain Horn
Coaxial Interface: SMA Male

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 | | | 1.2:1 | |

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, SMA Male connector PEWAN062-20SM](#)



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Mechanical Specifications

Size

| | |
|--------|----------------------|
| Length | 7.496 in [190.4 mm] |
| Width | 3.042 in [77.27 mm] |
| Height | 2.257 in [57.33 mm] |
| Weight | 0.3975 lbs [180.3 g] |

RF Connector

| | |
|------|----------|
| Type | SMA Male |
|------|----------|

Waveguide Interface

| | |
|----------------|-------|
| Waveguide Size | WR-62 |
|----------------|-------|

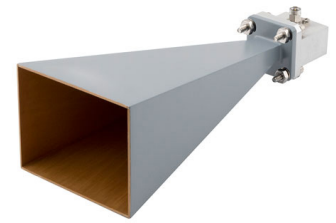
Environmental Specifications

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

Plotted and Other Data

Notes:

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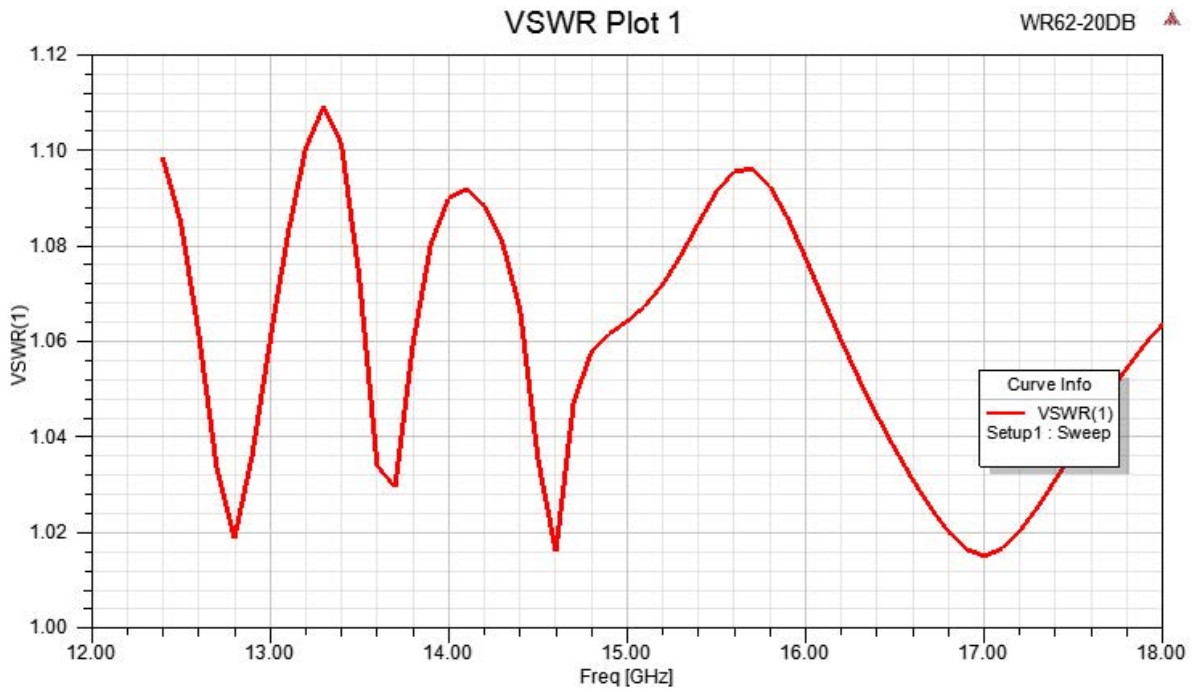


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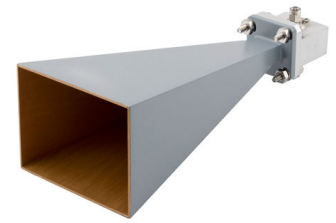
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Typical Performance Data



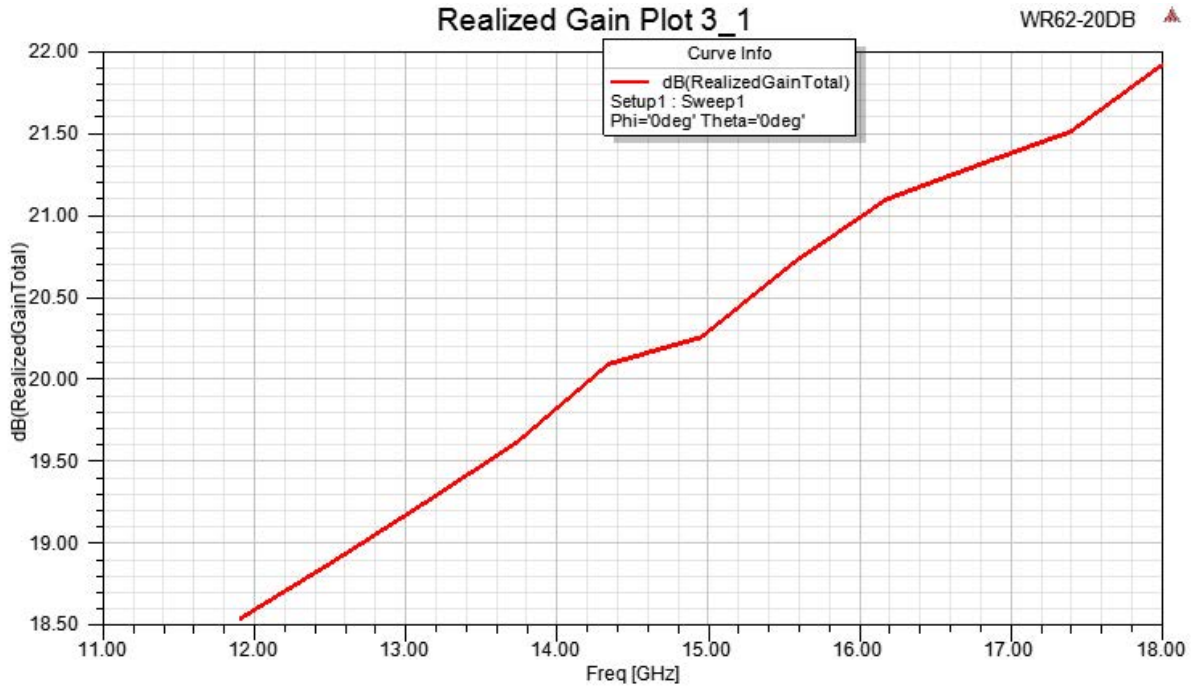
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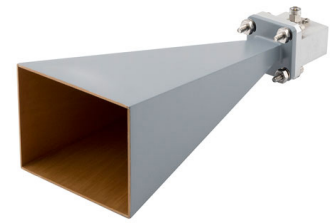
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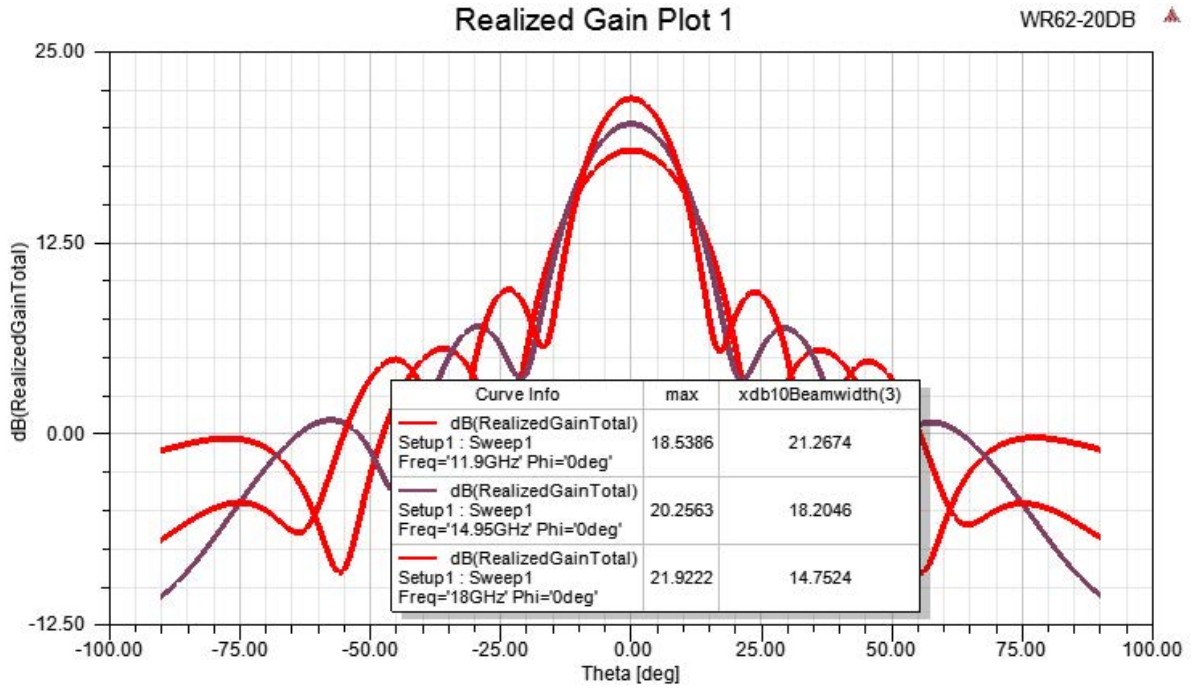
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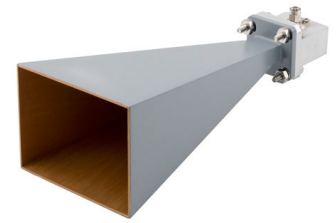
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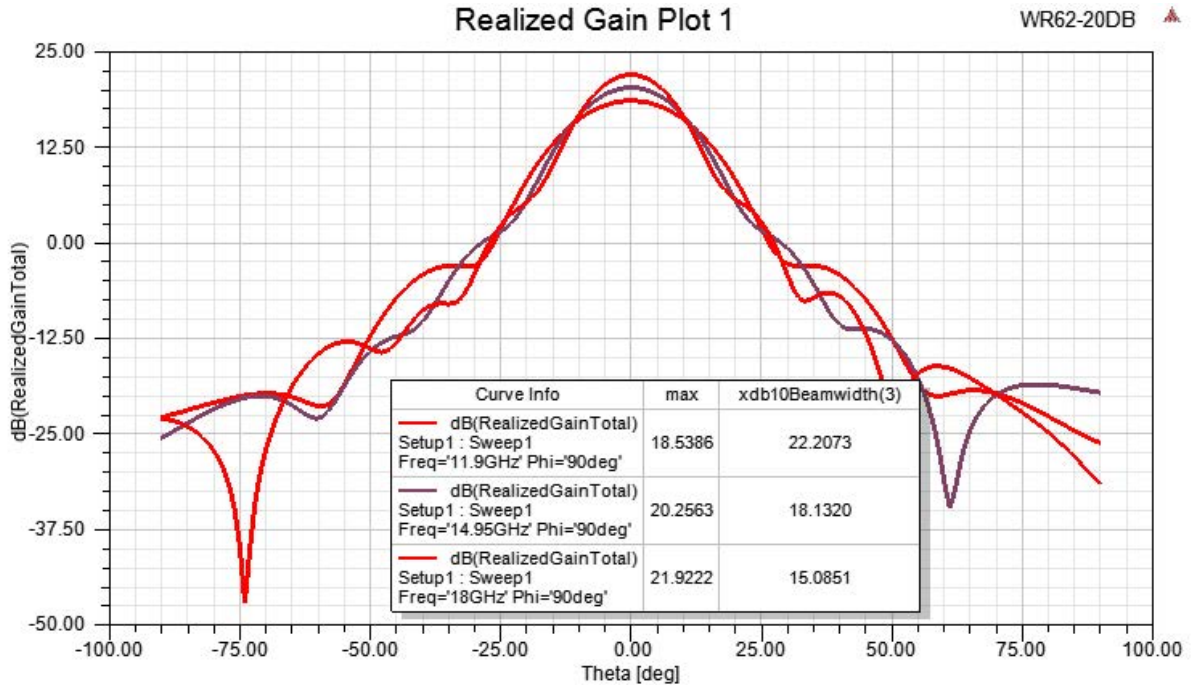
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WR-62 Standard Gain Horn with 20 dBi gain, SMA Male connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and millimeter wave products maintain a 99.4% availability and are part of the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

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, SMA Male connector PEWAN062-20SM](#)

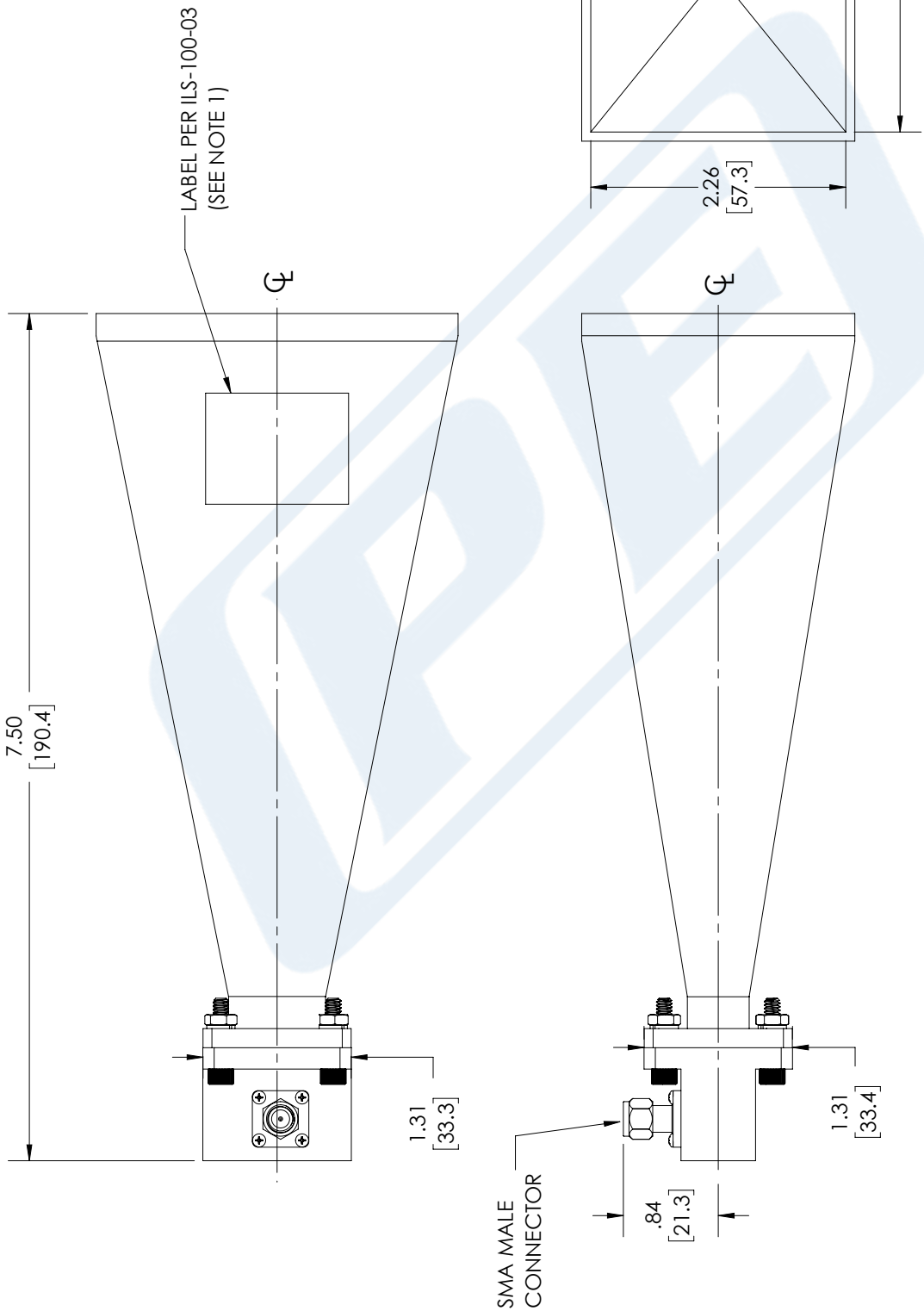
URL:

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.

PEWAN062-20SM CAD Drawing

WR-62 Standard Gain Horn with 20 dBi gain, SMA Male connector

| REVISIONS | | | |
|-----------|-----------------|------------|----------|
| REV. | DESCRIPTION | DATE | APPROVED |
| A | INITIAL RELEASE | 10/04/2021 | KHIETPAS |



THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

REV A

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E-mail: sales@pasternack.com

ITEM NO. PEWAN062-20SM

SIZE A CAGE CODE 53919 DRAWN BY BPUCHASKI

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:

| | | |
|--------------|--------|-------------|
| .X = ±.2 | [5.08] | FRACTIONS |
| .XX = ±.02 | [.51] | ± 1/32 |
| .XXX = ±.005 | [.13] | ANGLES ± 1° |

CABLE LENGTH (L) TOLERANCES:

| | | |
|----------------------|--------|-----------------|
| L ≤ 12 | [305] | = +1 [25] / -0 |
| 12 [305] < L ≤ 60 | [1524] | = +2 [51] / -0 |
| 60 [1524] < L ≤ 120 | [3048] | = +4 [102] / -0 |
| 120 [3048] < L ≤ 300 | [7620] | = +6 [152] / -0 |
| 300 [7620] < L | | = +5%L / -0 |

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

NOTES:
1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)
LABEL LOCATION FOR REFERENCE ONLY

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