



WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain,

Waveguide Antennas Technical Data Sheet

PEWAN187-20

Features

- WR-187 Rectangular Waveguide Interface
- 3.95 GHz to 5.85 GHz
- 20 dBi Nominal Gain
- CMR-187 Cover Flange
- C Band

Applications

- Antenna Measurements
- Wireless Communication
- Laboratory Use
- Microwave Radio Systems

Description

The PEWAN187-20 C Band standard gain horn antenna (also known as waveguide horn) from Pasternack has a nominal gain of 20 dBi. This WR-187 standard gain horn has a CMR-187 type flange. The Pasternack 20 dBi WR-187 horn antenna operates from 3.95 GHz to 5.85 GHz. The WR-187 PEWAN187-20 waveguide horn is Powder coated Aluminum for added protection and corrosion resistance. It is part of over 40,000 RF, microwave and millimeter wave components available from Pasternack. Waveguide standard gain horn antennas are used in a wide variety of applications due to their high power handling capability, low loss, high directivity, and near constant electrical performance. Pasternack's WR-187 standard gain horns are available in 10, 15 and 20 dBi models with pyramidal shape and rectangular input. Our WR-187 standard gain horn antennas can ship worldwide the same day as it is purchased as with our other available RF parts.

Configuration

Design	WR-187
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	3.95		5.85	GHz
Nominal Gain		20		dB
Horizontal Half Power Beam Width		17.5		Degrees
Vertical Half Power Beam Width		17.3		Degrees
VSWR		1.3:1		

Mechanical Specifications

Size	
Length	18.976 in [481.99 mm]
Width	9.154 in [232.51 mm]
Height	6.792 in [172.52 mm]
Weight	2.8 lbs [1.27 kg]

Waveguide Interface

Waveguide Size	WR-187
----------------	--------

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain, PEWAN187-20](#)



WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain,

Waveguide Antennas Technical Data Sheet

PEWAN187-20

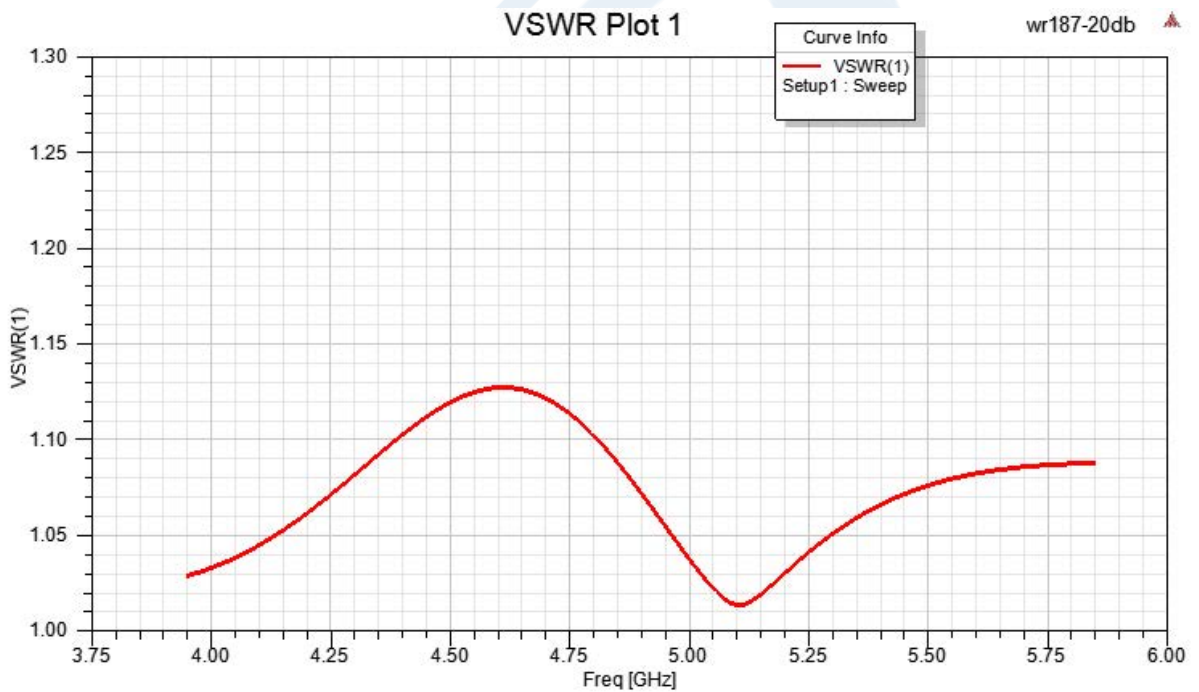
Flange Type
Body Material and Plating

CMR-187
Aluminum, Gray

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

Plotted and Other Data

Typical Performance Data



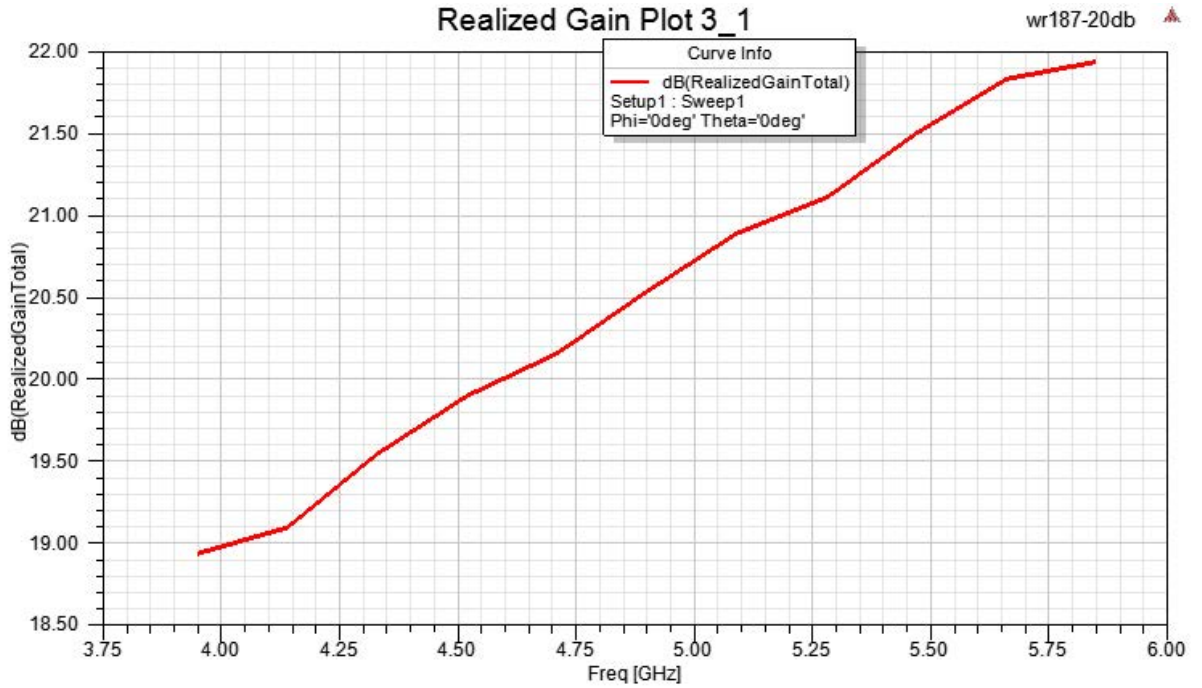
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain, PE-WAN187-20](#)



WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain,

Waveguide Antennas Technical Data Sheet

PEWAN187-20



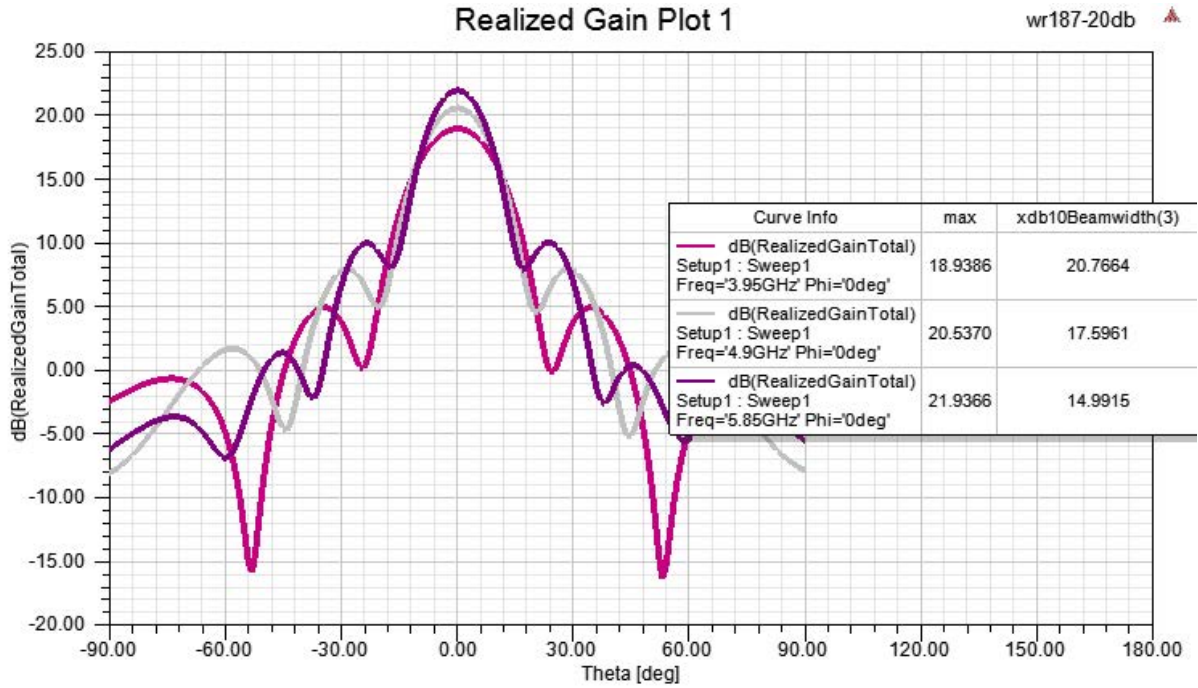
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain, PE-WAN187-20](#)



WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain,

Waveguide Antennas Technical Data Sheet

PEWAN187-20



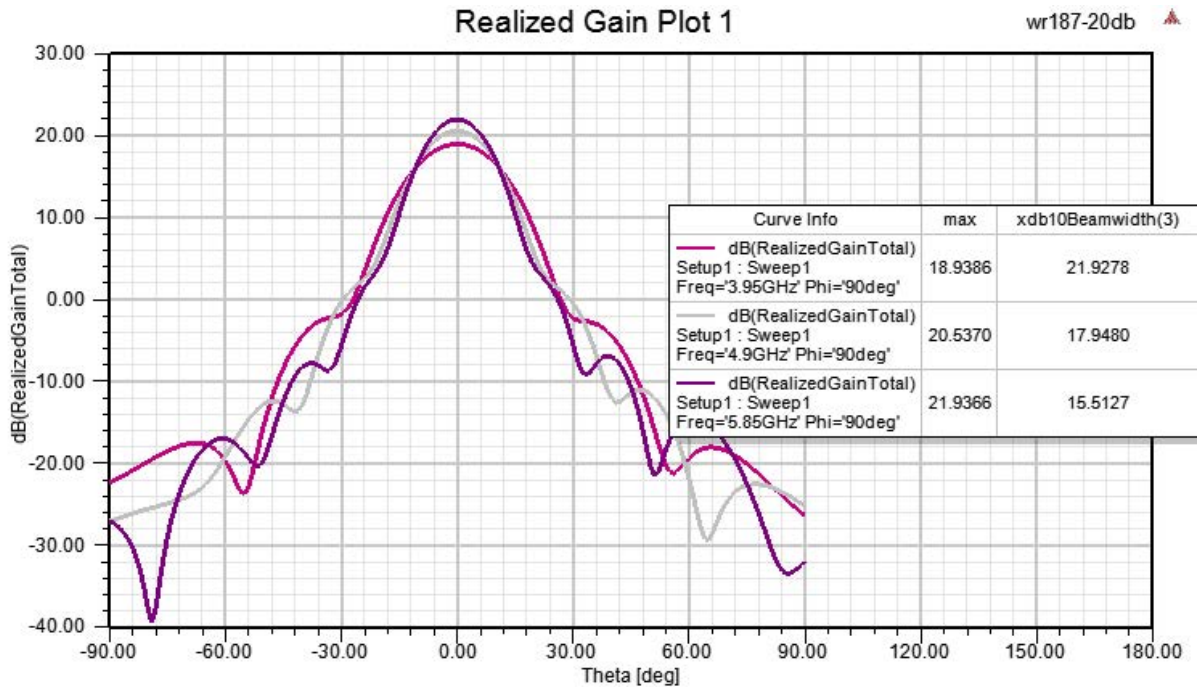
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain, PE-WAN187-20](#)



WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain,

Waveguide Antennas Technical Data Sheet

PEWAN187-20



WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain, 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-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain, PEWAN187-20](#)

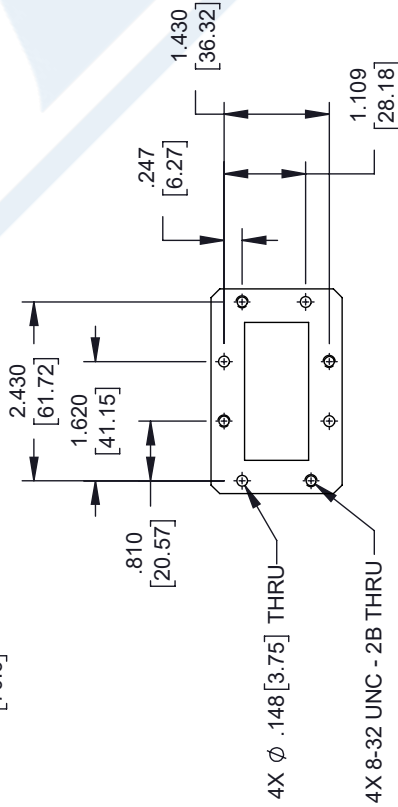
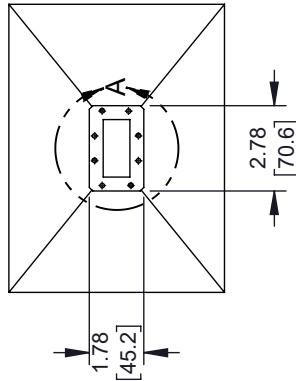
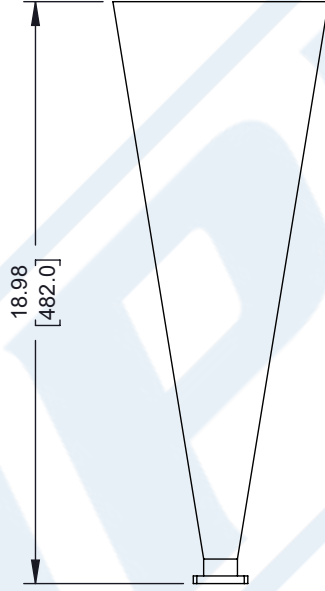
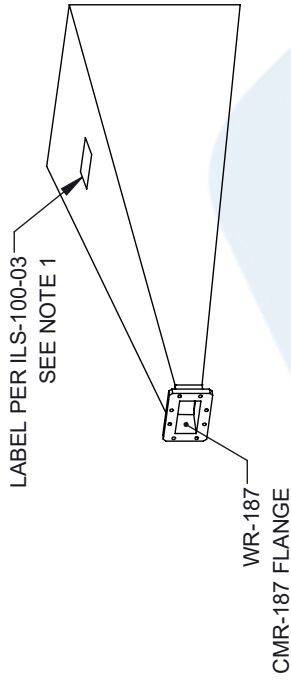
URL: <https://www.pasternack.com/wr-187-waveguide-gain-horn-antenna-20db-cmr-187-flange-pewan187-20-p.aspx>

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.

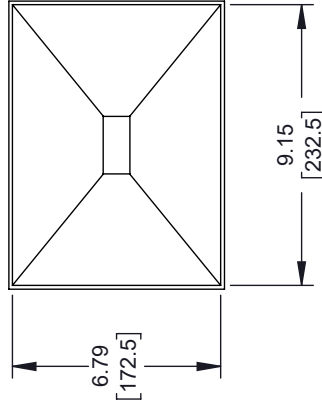
PEWAN187-20 CAD Drawing

WR-187 Waveguide Antenna, 3.95 GHz to 5.85 GHz Frequency Range, 20 dBi Gain,

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	06/01/2021	KHIETPAS



DETAIL A



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

TOLERANCES:
 .X = ±.2 [5.08] FRACTIONS ±.1032
 .XX = ±.02 [.51] ANGLES ± 1°
 .XXX = ±.005 [.13] 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% / -0

ALL DIMENSIONS SHOWN
ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

THE INFORMATION AND
DESIGN IN THIS DOCUMENT
IS THE PROPERTY OF
PASTERNAK CORPORATION
ALL RIGHTS RESERVED.

SHEET 1 OF 1

SCALE N/A

PE PASTERNAK
an INFINITI brand

Pasternack Enterprises, Inc.
P. O. Box 16759, Irvine, CA 92623.
Phone: 1.949.261.1920 | 1.866.727.8376
Fax: 1.949.261.7451
Website: www.pasternack.com
E-mail: sales@pasternack.com

SIZE A CAGE CODE 53919 DRAWN BY DZINN ITEM NO. PEWAN187-20 REV A

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

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.