



WR-187 Standard Gain Horn Antenna Operates From 3.95 GHz to 5.85 GHz With a Nominal 20 dB Gain SMA Female Input Connector

TECHNICAL DATA SHEET

PE9861/SF-20

WR-187 Standard Gain Horn Antenna Operates From 3.95 GHz to 5.85 GHz With a Nominal 20 dB Gain SMA Female Input Connector

Configuration

Design WR-187 Standard Gain Horn

Frequency Range, GHz

Polarization

Interface 1

3.95 to 5.85

Linear

SMA Female

Electrical Specifications

Impedance, Ohms 50
Nominal Gain, dB 20
Maximum Input VSWR 1.25:1

Mechanical Specifications

Size

 Length, in [mm]
 16.88 [428.75]

 Width, in [mm]
 9.08 [230.63]

 Height, in [mm]
 6.7 [170.18]

 Weight, lbs [Kg]
 2.5 [1.13]

Compliance Certifications (visit www.Pasternack.com for current document)

Plotted and Other Data

2 Dimensional OML Drawing PE9861/SF

Notes: Values at 25 °C, sea level

WR-187 Standard Gain Horn Antenna Operates From 3.95 GHz to 5.85 GHz With a Nominal 20 dB Gain SMA Female Input Connector from Pasternack Enterprises has same day shipment for domestic and International orders. Our RF, microwave and fiber optic products maintain a 99% 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 Standard Gain Horn Antenna Operates From 3.95 GHz to 5.85 GHz With a Nominal 20 dB Gain SMA Female Input Connector PE9861/SF-20

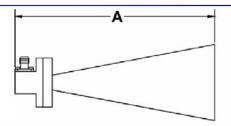
URL: http://www.pasternack.com/standard-gain-horn-waveguide-size-wr187-20-db-gain-sma-female-pe9861sf-20-p.aspx

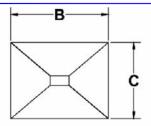
The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. Pasternack reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal.



PE9861/SF-20 CAD Drawing

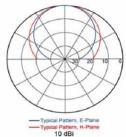
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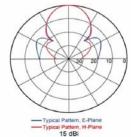


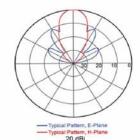


Specifications (1) & Ordering Information

| SMA/2.92mm CONNECTOR MODEL NO. | Description | WAVEGUIDE SIZE | FREQUENCY RANGE (DC TO GHz) | GAIN | 3 dB Width | | Dimensions | | |
|--|---|-------------------|-----------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|------------------------|-----------------------|
| | | | | | E-Plane | H-Plane | А | В | С |
| PE9850/2F-10 PE9850/2F-15 PE9850/2F-20 | WR28 Standard Gain Horn with 2.92mm Female Connector 10, 15 & 20 dB Gain | WR28 | 26.50-40.00 | 10 dB 15 dB 20 dB | 54.2° 32.1° 16.7° | 54.4° 31.3° 18.3° | 1.56 2.44 3.69 | 0.50 0.84 1.45 | 0.40 0.62 1.10 |
| PE9851/2F-10 PE9851/2F-15 PE9851/2F-20 | WR34 Standard Gain Horn with 2.92mm Female Connector 10, 15 & 20 dB Gain | WR34 | 22.00-33.00 | 10 dB 15 dB 20 dB | 54.1° 23.1° 17.0° | 53.2° 40.8° 17.4° | 1.68 2.67 4.13 | 0.65 1.07 1.86 | 0.50 0.82 1.40 |
| PE9852/2F-10 PE9852/2F-15 PE9852/2F-20 | WR42 Standard Gain Horn with 2.92mm Female Connector 10, 15 & 20 dB Gain | WR42 | 18.00-26.50 | 10 dB 15 dB 20 dB | 58.0° 31.3° 17.5° | 57.0° 31.5° 17.8° | 1.94 3.06 4.72 | 0.69 1.22 2.26 | 0.52 0.92 1.77 |
| PE9853/SF-10 PE9853/SF-15 PE9853/SF-20 | WR51 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR51 | 15.00-22.00 | 10 dB 15 dB 20 dB | 55.1° 32.0° 16.9° | 54.2° 31.8° 18.0° | 2.07 8.30 5.65 | 0.89 1.60 2.60 | 0.70 1.16 2.04 |
| PE9854/SF-10 PE9854/SF-15 PE9854/SF-20 | WR62 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR62 | 12.40-18.00 | 10 dB 15 dB 20 dB | 55.3° 30.1° 18.8° | 50.9° 31.2° 18.9° | 2.00 3.48 6.80 | 1.15 1.88 3.00 | 0.82 1.47 2.24 |
| PE9855/SF-10 PE9855/SF-15 PE9855/SF-20 | WR75 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR75 | 10.00-15.00 | 10 dB 15 dB 20 dB | 50.2° 35.4° 16.3° | 49.2° 28.5° 17.2° | 2.88 5.70 8.85 | 1.39 2.36 4.00 | 1.04 1.45 3.10 |
| PE9856/SF-10 PE9856/SF-15 PE9856/SF-20 | WR90 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR90 | 8.20-12.40 | 10 dB 15 dB 20 dB | 48.5° 29.3° 16.1° | 47.4° 29.0° 16.5° | 2.82 6.45 11.06 | 1.70 2.80 5.00 | 1.27 2.05 3.70 |
| PE9857/SF-10 PE9857/SF-15 PE9857/SF-20 | WR102 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR102 | 7.00-11.00 | 10 dB 15 dB 20 dB | 55.5° 29.6° 17.0° | 54.1° 29.3° 16.7° | 4.13 7.28 12.28 | 1.69 2.40 5.68 | 1.27 3.15 4.04 |
| PE9858/SF-10 PE9858/SF-15 PE9858/SF-20 | WR112 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR112 | 7.05-10.00 | 10 dB 15 dB 20 dB | 56.8° 32.4° 19.3° | 55.2° 32.0° 19.3° | 4.02 7.79 12.27 | 1.75 3.05 5.10 | 1.30 2.25 3.77 |
| PE9859/SF-10 PE9859/SF-15 PE9859/SF-20 | WR137 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR137 | 5.85-8.20 | 10 dB 15 dB 20 dB | 55.1° 33.7° 18.7° | 54.2° 33.2° 18.8° | 4.41 7.80 13.45 | 2.15 3.53 6.45 | 1.60 2.60 4.65 |
| PE9860/SF-10 PE9860/SF-15 PE9860/SF-20 | WR159 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR159 | 4.90-7.05 | 10 dB 15 dB 20 dB | 59.8° 31.3° 14.3° | 48.3° 30.8° 16.9° | 6.04 9.66 13.38 | 2.80 4.43 10.00 | 1.70 3.27 7.80 |
| PE9861/SF-10 PE9861/SF-15 PE9861/SF-20 | WR187 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR187 | 3.95-5.85 | 10 dB 15 dB 20 dB | 55.0° 33.8° 18.9° | 54.1° 33.3° 19.2° | 17.51 11.28 16.88 | 3.29 4.98 9.08 | 2.19 3.67 6.70 |
| PE9862/SF-10 PE9862/SF-15 PE9862/SF-20 | WR229 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR229 | 3.30-4.90 | 10 dB 15 dB 20 dB | 58.6° 32.7° 17.1° | 51.9° 32.4° 16.7° | 17.98 7.05 25.63 | 3.71 6.63 12.40 | 2.73 6.00 8.75 |
| PE9863/SF-10 PE9863/SF-15 PE9863/SF-20 | WR284 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR284 | 2.60-3.95 | 10 dB 15 dB 20 dB | 50.8° 31.0° 17.2° | 54.1° 30.6° 16.5° | 9.90 23.15 32.15 | 4.40 9.00 15.70 | 3.58 5.60 10.80 |
| PE9864/SF-10 PE9864/SF-15 PE9864/SF-20 | WR430 Standard Gain Horn with SMA Female Connector 10, 15 & 20 dB Gain | WR430 | 1.70-2.60 | 10 dB 15 dB 20 dB | 64.8° 33.1° 17.3° | 45.4° 32.0° 17.4° | 14.00 26.6 44.00 | 8.15 11.85 22.25 | 4.14 8.50 16.20 |







(1) Pasternack reserves the right to change specifications or information without notice.

(2) All Specifications "typical"

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