



Description

Mi-Wave's 262 Series Conical horns are fabricated with very close tolerances to ensure the precision of every horn manufactured by Mi-Wave. Each unit is supplied with a short section of circular waveguide supplied with a short section of circular waveguide and terminated in a standard round flange.

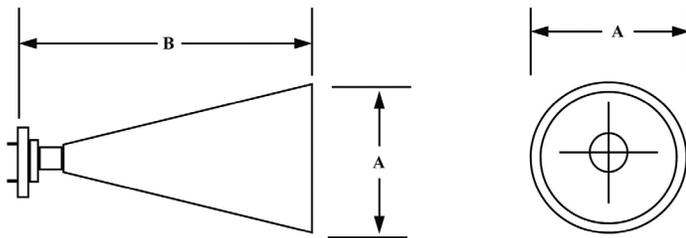
- Available from 12.4 to 325 GHz
- Nominal Gain of 10, 15, 20, and 25 dBi
- Made with Precise Dimensional Tolerance Control
- Gain Calibration is accurate to 0.5 dB over operating bandwidth.

Conical horns can be used to experimentally determine the gain of other antennas by using the substitution method. The conical horn and the antenna under test are alternately connected to a well-matched detector system in order to compare their relative power levels. The power level difference is then added to the appropriate level of the calibration curve to determine the absolute gain of the antenna under test.

Conical horns are also useful as power monitors in radars transmitter test, known-gain radiators in field propagation studies, and transmitting or receiving antennas in test bench applications.

PLEASE NOTE:

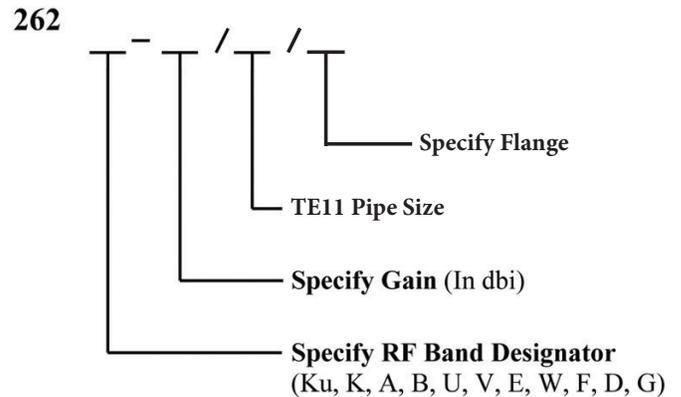
- 10, 15, 20 and 25dB models are available in all bands. Custom sizes also available.
- Gain calibration is an optional feature.



NOTE:

Due to wide variety of circular waveguide sizes and gain options, Consult Mi-Wave for dimensions.

Ordering Information



ORDER EXAMPLE:

Model number 262W-25/.094/387 is a conical horn operating in W-band with a 25dB gain and 0.094 circular waveguide.



WR-10 Waveguide Conical Gain Horn Antenna
Operating from 87 GHz to 100 GHz with a Nominal
25 dBi Gain with UG-387/U Round Cover Flange

Gain Horns Technical Data Sheet

Features

- Circular Waveguide Interface
- 87 GHz to 100 GHz
- 25 dBi Nominal Gain
- UG-387/U Round Cover Flange

Applications

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

Description

Waveguide conical 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 across a broad bandwidth. Pasternack's PEWAN1052 WR-10 waveguide conical gain horn antenna operating from 87 GHz to 100 GHz with a nominal 25 dBi gain is part of our full line of RF components available for same-day shipping. This circular horn antenna has a gold plated brass body and a precision tolerance UG-387/U round cover flange. The 262 serie WR-10 waveguide conical gain horn antenna offers low gain variation across its operating frequency range.

Configuration

Design	WR-10 Conical Gain Horn
Pattern	Directional
Polarization	Linear

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	87		100	GHz
Nominal Gain		25		dBi
Horizontal Half Power Beam Width		10		Degrees
Vertical Half Power Beam Width		9		Degrees
VSWR		1.15:1		

Mechanical Specifications

Size	
Length	3.07 in [77.98 mm]
Width	1.04 in [26.42 mm]
Height	1.04 in [26.42 mm]
Weight	0.109 lbs [49.44 g]

Waveguide Interface

Waveguide Size	WR-10
Flange Type	Round Cover
Flange Designation	UG-387/U

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-10 Waveguide Conical Gain Horn Antenna Operating from 87 GHz to 100 GHz with a Nominal 25 dBi Gain with UG-387/U Round Cover Flange PEWAN1052](#)



WR-10 Waveguide Conical Gain Horn Antenna
Operating from 87 GHz to 100 GHz with a Nominal
25 dBi Gain with UG-387/U Round Cover Flange

Gain Horns Technical Data Sheet

262 serie

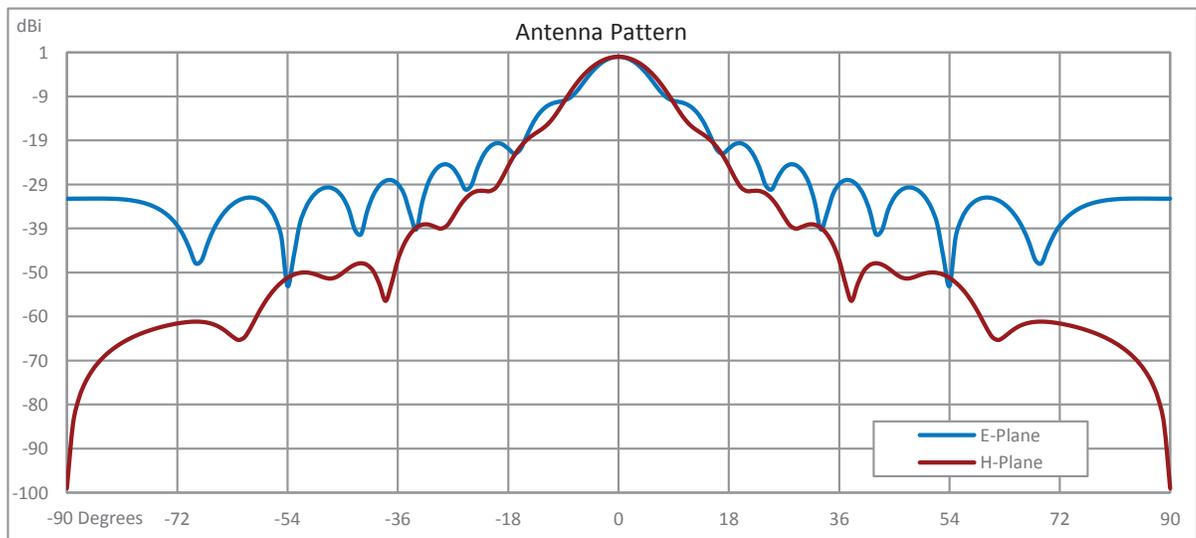
Body Material and Plating

Brass, Gold

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

Plotted and Other Data

Typical Performance Data



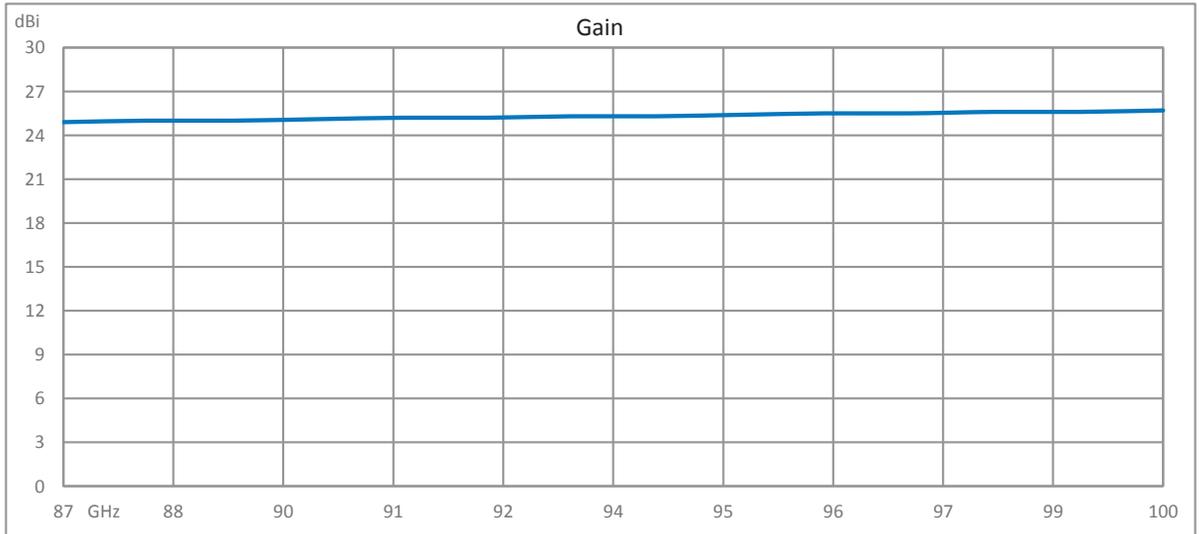
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [WR-10 Waveguide Conical Gain Horn Antenna Operating from 87 GHz to 100 GHz with a Nominal 25 dBi Gain with UG-387/U Round Cover Flange PEWAN1052](#)

WR-10 Waveguide Conical Gain Horn Antenna
Operating from 87 GHz to 100 GHz with a Nominal
25 dBi Gain with UG-387/U Round Cover Flange



Gain Horns Technical Data Sheet

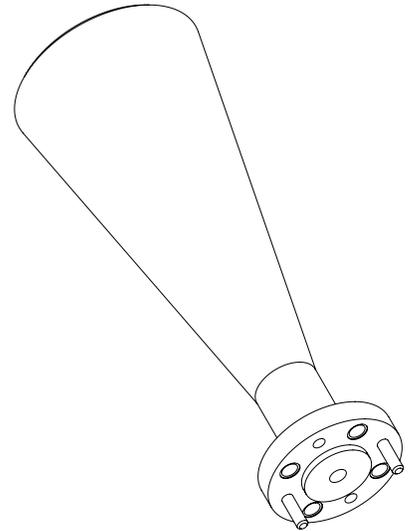
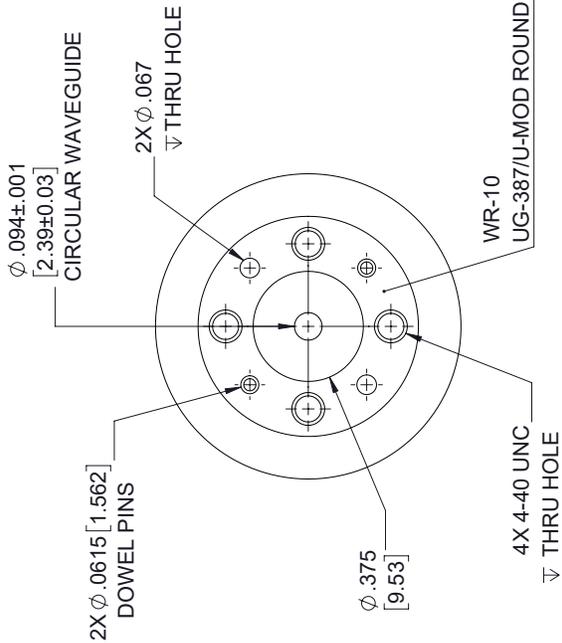
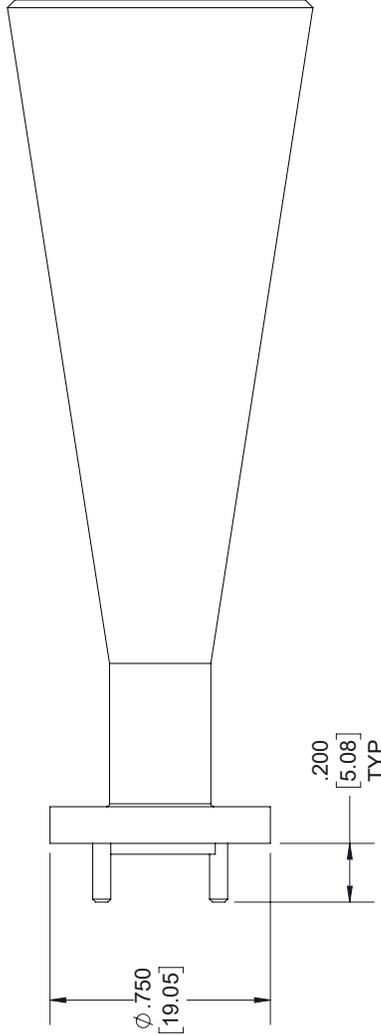
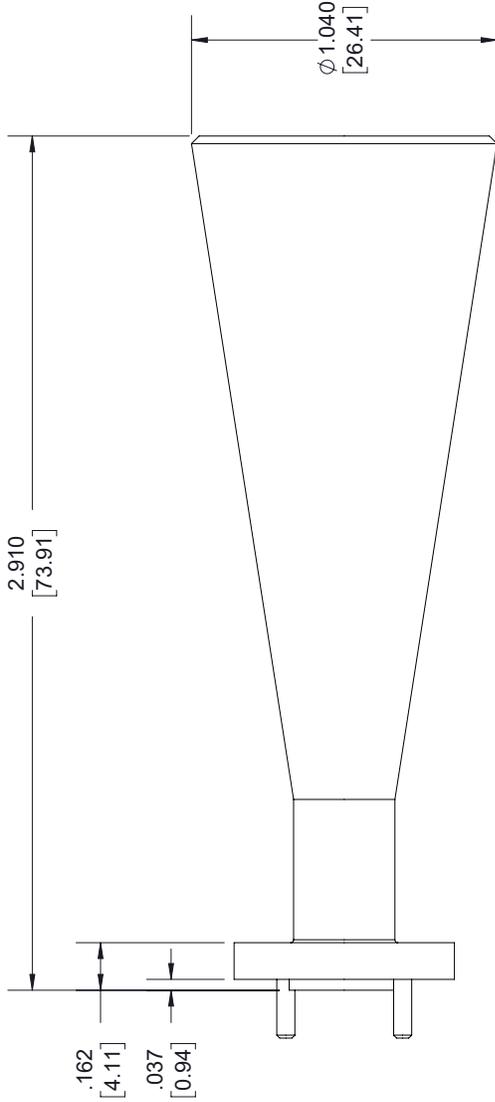
262 Serie



CAD Drawing

WR-10 Waveguide Conical Gain Horn Antenna Operating from 87 GHz to 100 GHz with a Nominal 25 dBi Gain with UG-387/U Round Cover Flange

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	02/21/19	M.MILLER



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

TOLERANCES:
X±.2 [5.08] FRACTIONS
.XX±.01 [.25] ±132
.XXX±.005 [.13] ANGLES ± 1°
ALL DIMENSIONS SHOWN

THIRD-ANGLE PROJECTION
ARE FOR REFERENCE ONLY.

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SCALE N/A		A
SIZE A	CAGE 53919	PART NUMBER 262/W-25 Serie
DRAWN BY K.DANG		REV

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