

# 261 Series

# Standard Gain Horns



## Features

- Nominal Gain of 25 dBi
- Available from 12.4 to 220 GHz
- Made with Precise Dimensional Tolerance Control
- Gain Calibration is Accurate to 0.5 dB Over Full Waveguide Bandwidth
- Other Gain Values Available upon Request, ex: 10, 15, 20, etc.

## Description 261 Series Gain Horns

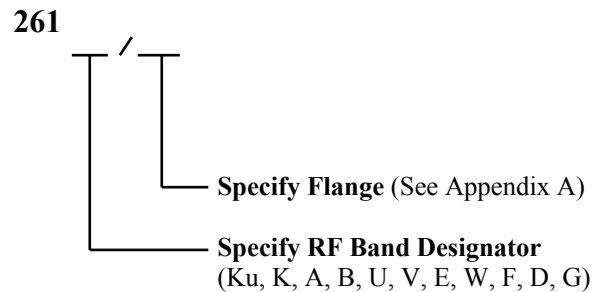
**Mi-Wave's** 261 series standard gain horns are fabricated with very close tolerances to ensure the precision of every horn manufactured by **Mi-Wave**. Each unit is joined to a short section of rectangular wave-guide and terminated in a standard flange.

Standard gain horns can be used to determine experimentally the gain of other antennas by using the substitution method. The standard gain 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.

Standard gain horns are also useful as power monitors in radar transmitter tests, known-gain radiators in field propagation studies, and transmitting or receiving antennas in test bench applications. The completed units are gold-plated to protect from corrosion and for minimum RF losses.

**Please Note:** 15 dB models available in all bands.

## Ordering Information



For Example: Model number 261 W/387 is a standard gain horn operating in W-band with a 387 type flange.

## Mi-Wave

Millimeter Wave Products Inc.

[www.miwv.com](http://www.miwv.com)

2200 Tall Pines Drive, Suite 100

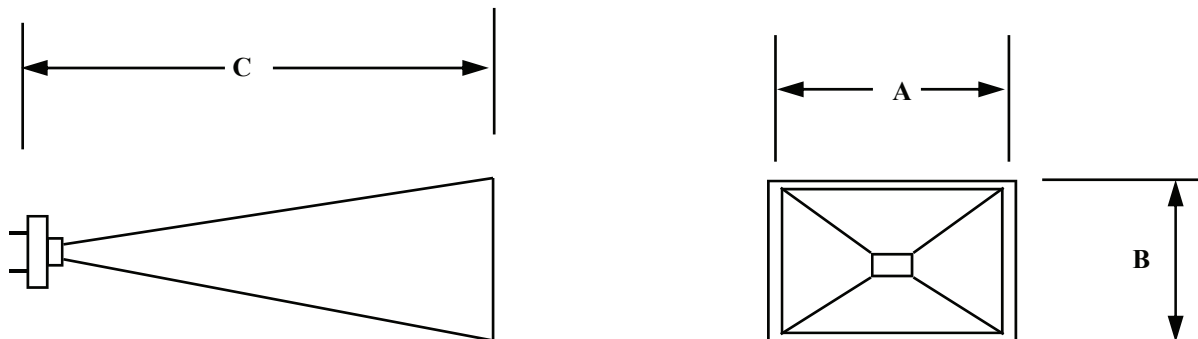
Largo, FL 33771

Tel. (727) 536-0033 Fax. (727) 536-0012

E: [sales@miwv.com](mailto:sales@miwv.com)

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## Specifications

Model Number	Frequency Band (GHz)	Waveguide Dimension	Waveguide WR-	Flange Types	A		B		C	
					in	mm	in	mm	in	mm
261Ku	12.4-18.0	.622 x .311	62	425	5.62	142.8	4.18	106.2	12.50	317.5
261K	18.0-26.5	.420 x .170	42	595	4.12	104.7	3.40	86.4	9.20	233.7
261A	26.5-40.0	.280 x .140	28	599	2.84	72.1	2.35	59.7	6.60	167.6
261B	30.0-50.0	.224 x .112	22	383	2.30	58.4	1.91	48.5	5.10	129.5
261U	40.0-60.0	.188 x .094	19	385	1.81	46.0	1.38	35.1	4.05	102.9
261V	50.0-75.0	.148 x .074	15	387	1.72	43.7	1.43	36.3	3.90	99.1
261E	60.0-90.0	.122 x .061	12	387	1.46	37.1	1.21	30.8	3.20	81.3
261W	75.0-110.0	.100 x .050	10	387	1.21	30.7	1.02	25.9	2.80	71.1
261F	90.0-140.0	.080 x .040	8	387	1.00	25.4	0.84	21.3	2.10	53.3
261D	110.0-170.0	.065 x .0325	6	387	0.83	21.1	0.70	17.8	1.73	43.9
261G	140.0-220.0	.051 x .0255	5	387	0.54	13.7	0.64	16.3	1.25	31.8

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E: sales@miww.com