



Mega Industries Standard Gain Horns have a wide range of applications such as transmitting, receiving or sampling.

The high precision manufacturing of the Mega Gain Horns assure you of accurate, repeatable gain reference. Horns are built and manufactured per the NRL standards, Report #4333.

All Mega Industries Gain Horns are manufactured from high quality 6061-T6 aluminum and are given a chromate conversion treatment in accordance with MIL-C-5541. Units are painted in our standard glyptal grey but can be custom painted to meet your system requirements.

Units are available in mid band gains of either 10 or 15 dBi

General Specification:

Variation of Mid-band gain with frequency:  $\pm 2$  dB

Maximum VSWR: 1.2:1

Associated waveguide to coax adapters are also available for these standard gain horn antennas. Please consult our catalog for ordering information.

Model	Frequency Range (GHz)	Waveguide			Nominal Mid Band Gain (dB)	Dimensions in inches (mm)		
		WG	R	WR		Overall Length	Width at horn output	Height at horn output
3042100	.32—.49	N/A	3	2300	13.6	132 (3353.8)	48 (1219.2)	60 (1524.0)
3142100	.35—.53	N/A	4	2100	15	62 (1574.8)	54.10 (1374.1)	73.03 (1854.9)
3242100	.41—.62	1	5	1800	15			
3342100	.49—.75	2	6	1500	15	48 (1219.2)	35.74 (907.8)	48.25 (1225.5)
3442100	.64—.96	3	8	1150	15			
3542100	.75—1.12	4	9	975	15.5	30 (762.0)	24.12 (612.6)	32.57 (827.3)
3642100	.96—1.46	5	12	770	14	24.65 (626.1)	16.25 (412.7)	21.93 (557.0)
3742100	1.12—1.70	6	14	650	15.8	23.06 (585.7)	16.25 (412.7)	21.93 (557.0)
4042100	1.70—2.60	8	22	430	15.8	15.60 (396.2)	10.75 (273.0)	14.50 (368.3)
4242100	2.60—3.95	10	32	284	18.2	18.50 (469.9)	9.45 (240.0)	12.76 (324.1)

For horn with 10 dBi gain substitute the 1 in the model number with o. e.g. 3042000 would be a WR2300 horn with 10 dBi gain.