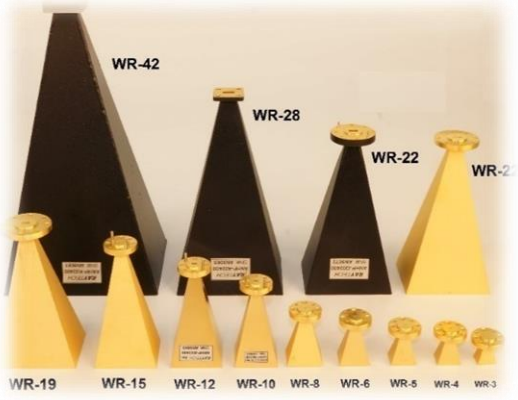
ANHP-XX24

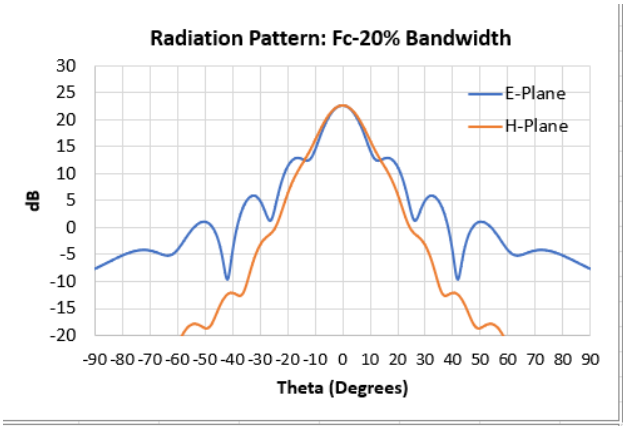
Standard Gain Horn, 24 dBi Gain

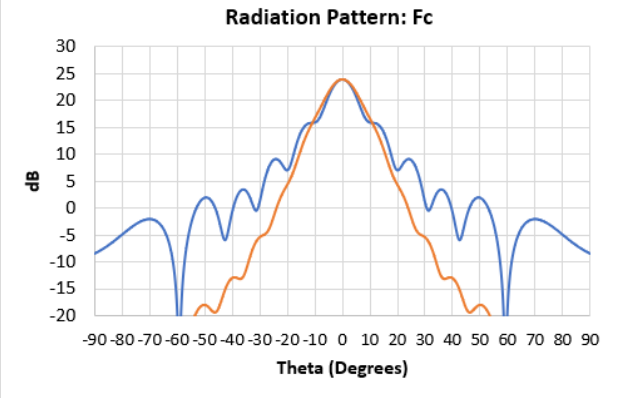
Raytech's ANHP-XX24 series of standard gain horn antennas cover the frequency range of 12 to 325 GHz in 13 waveguide bands. The antenna offers 24 dBi nominal gain with a half power beamwidth of 9.5 degrees and 11.0 degrees on the E-plane and H-plane, respectively at the mid-band frequency.

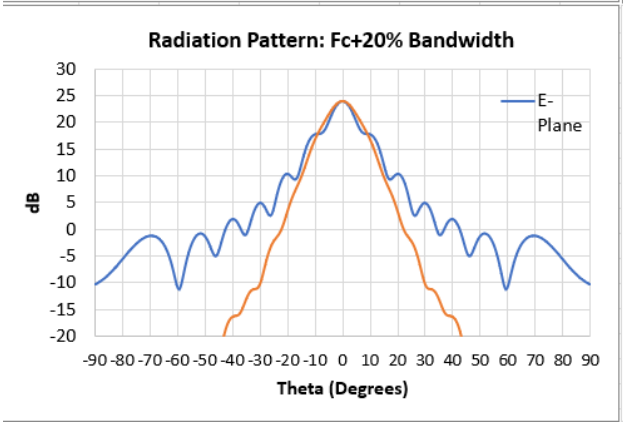


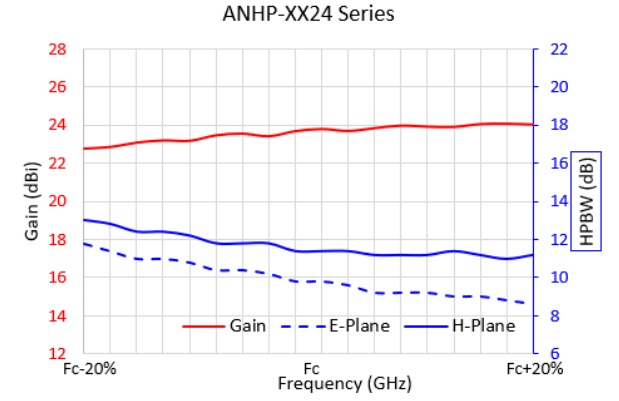
Electrical Specification

FREQUENCY BAND	Ku	K	Ka	Q	U	V	E	W	F	D	G	H	J
Frequency Range (GHz)	12.4-18	18-26.5	26.5-40	33-50	40-60	50-75	60-90	75-110	90-140	110-170	140-220	170-260	220-325
Waveguide Size	WR-62	WR-42	WR-28	WR-22	WR-19	WR-15	WR-12	WR-10	WR-8	WR-6	WR-5	WR-4	WR-3
VSWR (max)	1.10:1					1.15:1				1.25:1			
Mid-band Gain (dBi)	24												

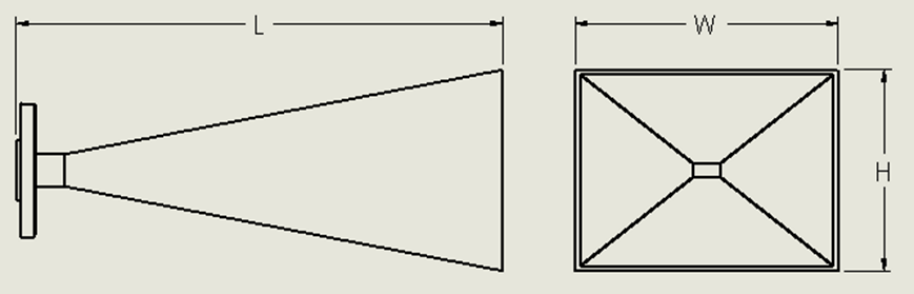








Outline



PYRAMIDAL HORNS WITH RECTANGULAR WAVEGUIDE INPUT, inches [mm]						
Frequency Band	Waveguide Size	Waveguide Dimension	Flange Pattern	Outline Dimensions		
				W	H	L
Ku	WR-62	0.622 X 0.311 [15.80 X 7.90]	UG-419/U	5.63 [143.1]	4.30 [109.1]	9.89 [251]
K	WR-42	0.420 X 0.311 [10.67 X 7.90]	UG-595/U	4.02 [102.0]	3.02 [76.6]	7.44 [189]
Ka	WR-28	0.280 X 0.140 [7.11 X 3.56]	UG-599/U	2.80 [71.1]	2.15 [54.6]	5.25 [133]
Q	WR-22	0.224 X 0.112 [5.69 X 2.84]	UG-383/U	2.22 [56.3]	1.70 [43.1]	4.11 [104]
U	WR-19	0.188 X 0.094 [4.78 X 2.39]	UG-383/U	1.87 [47.5]	1.44 [36.4]	3.41 [86.6]
V	WR-15	0.148 X 0.074 [3.76 X 1.88]	UG-385/U	1.43 [36.3]	1.16 [29.4]	3.00 [76.1]
E	WR-12	0.122 X 0.061 [3.10 X 1.55]	UG-387/UM	1.20 [30.4]	0.97 [24.7]	2.48 [63.1]
W	WR-10	0.100 X 0.050 [2.54 X 1.27]	UG-387/UM	1.00 [25.4]	0.81 [20.6]	2.07 [52.6]
F	WR-8	0.080 X 0.040 [2.03 X 1.02]	UG-387/UM	0.83 [21.0]	0.65 [16.4]	1.40 [35.6]
D	WR-6	0.0650 X 0.0325 [1.65 X 0.83]	UG-387/UM	0.71 [18.1]	0.56 [14.2]	1.20 [30.5]
G	WR-5	0.0510 X 0.0255 [1.30 X 0.65]	UG-387/UM	0.60 [15.2]	0.47 [12.0]	0.98 [24.9]
H	WR-4	0.0430 X 0.0215 [1.09 X 0.55]	UG-387/UM	0.55 [13.9]	0.44 [11.0]	0.88 [22.4]
J	WR-3	0.0340 X 0.0170 [0.86 X 0.43]	UG-387/UM	0.45 [11.4]	0.36 [9.2]	0.69 [17.5]