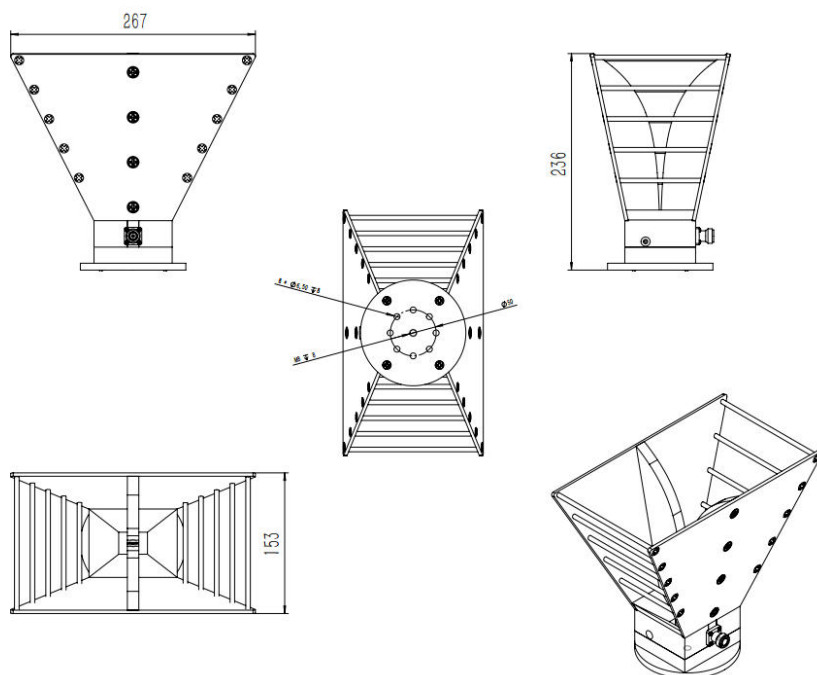


Broadband Horn Antenna *Dual Ridged Horn*



Description:

Broadband Horn Antenna for EMC/EMI
Gain Test System Applications.

Specifications:	
Nominal Frequency Range:	800MHz...12GHz
Usable Frequency Range:	800MHz ... 13GHz
Isotropic Gain:	6-15 dBi
Antenna Factor:	22-36dB/m
Nominal Impedance:	50 Ω
Standing Wave Ratio SWR typical:	≈ 1.5
Front to Back Ratio:	> 25 dB
Cross Polarisation:	> 25dB(800MHz...12GHz)
3 dB Beamwidth typ. (E-Plane):	101.9°...40.2°
3 dB Beamwidth typ. (H-Plane):	85°...30.5°
Max. Input Power:	see diagram
N-Connector female	
Mount: Custom design	
Width x Length x Thickness:	267*236*153mm
Weight:	680g

Frequency GHz	Max Gain over Frequency dBi	Ant.-Factor dB/m
0.80	6.44	21.84
1.09	7.66	23.31
1.29	8.85	23.59
1.49	9.64	24.05
1.69	10.84	23.94
1.89	9.52	26.23
1.92	9.41	26.47
2.09	10.21	26.42
2.29	11.01	26.41
2.49	11.05	27.09
2.69	11.86	26.96
2.89	11.69	27.75
3.04	12.14	27.74
3.09	12.36	27.66
3.29	12.79	27.78
3.49	12.55	28.53
3.69	12.70	28.86
3.89	12.18	29.84
4.09	11.81	30.64
4.16	12.19	30.42
4.29	12.56	30.31
4.49	12.44	30.82
4.69	12.29	31.36
4.89	12.18	31.82
5.09	12.49	31.87
5.28	13.06	31.62
5.29	13.07	31.62
5.49	12.83	32.18
5.69	12.76	32.57
5.89	12.78	32.84
6.09	12.53	33.39
6.29	12.72	33.48
6.40	12.67	33.67
6.49	12.53	33.94
6.69	12.24	34.49

Frequency GHz	Max Gain over Frequency dBi	Ant.-Factor dB/m
6.89	12.09	34.90
7.09	12.29	34.95
7.29	12.47	35.01
7.49	12.58	35.13
7.52	12.58	35.17
7.69	12.61	35.33
7.89	12.66	35.51
8.09	12.77	35.61
8.29	13.11	35.48
8.49	13.21	35.59
8.64	13.30	35.65
8.69	13.32	35.68
8.89	13.38	35.82
9.09	13.59	35.80
9.29	13.70	35.88
9.49	13.51	36.26
9.69	13.68	36.27
9.76	13.75	36.26
9.89	13.90	36.22
10.09	13.95	36.35
10.29	14.13	36.34
10.49	14.35	36.29
10.69	14.27	36.53
10.88	14.55	36.40
10.89	14.58	36.38
11.09	15.14	35.98
11.29	15.30	35.97
11.49	15.47	35.96
11.69	15.75	35.82
11.89	15.80	35.93
12.00	15.74	36.07

Calibration Uncertainty (k=2):
Frequency range $f < 10$ GHz
Frequency range $10 \text{ GHz} < f < 20 \text{ GHz}$

