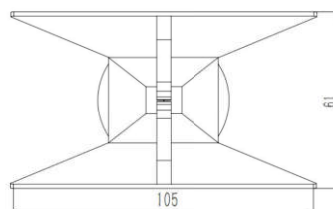
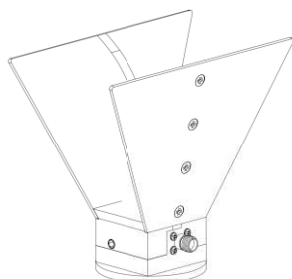
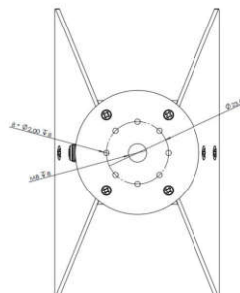
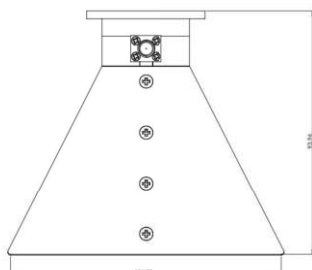


Broadband Horn Antenna *Dual Ridged Horn*



Description:

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

Specifications:

Nominal Frequency Range:	2GHz...32GHz
Usable Frequency Range:	2GHz ... 34 GHz
Isotropic Gain:	4-16dBi
Antenna Factor:	27... 40 dB/m
Nominal Impedance:	50 Ω
Standing Wave Ratio SWR typical:	≈ 1.5
Front to Back Ratio:	> 25 dB
Cross Polarisation:	> 25dB (2GHz...32GHz)
3 dB Beamwidth typ. (E-Plane):	128° ... 18.7°
3 dB Beamwidth typ. (H-Plane):	91.4° ... 13.3°
Max. Input Power:	see diagram
N-Connector female	
Mount: Custom design	
Width x Length x Thickness:	105×94×61mm
Weight:	153g

Frequency GHz	Max Gain over Frequency	Ant.-Factor
	dBi	dB/m
2	3.65	32.59
2.1	3.89	32.78
2.2	4.07	32.99
2.3	4.19	33.27
2.4	4.23	33.59
2.5	4.26	33.92
2.6	4.31	34.21
2.7	4.43	34.41
2.8	4.61	34.55
2.9	4.81	34.66
3	4.98	34.79
3.1	5.08	34.96
3.2	5.14	35.18
3.3	5.17	35.42
3.4	5.23	35.62
3.5	5.35	35.75
3.6	5.57	35.77
3.7	5.89	35.69
3.8	6.28	35.53
3.9	6.70	35.34
4	7.11	35.16
4.1	7.45	35.03
4.2	7.70	34.98
4.3	7.86	35.03
4.4	7.94	35.15
4.5	7.93	35.35
4.6	7.86	35.61
4.7	7.77	35.89
4.8	7.70	36.14
4.9	7.75	36.27
5	7.86	36.34
5.1	8.02	36.35
5.2	8.22	36.32
5.3	8.45	36.26
5.4	8.71	36.16
5.5	8.94	36.09
5.6	9.13	36.05
5.7	9.29	36.05
5.8	9.42	36.07
5.9	9.52	36.11
6	9.61	36.17
6.1	9.68	36.25
6.2	9.71	36.35
6.3	9.70	36.50
6.4	9.64	36.70
6.5	9.55	36.93
6.6	9.46	37.15
6.7	9.39	37.35

Frequency GHz	Max Gain over Frequency	Ant.-Factor
	dBi	dB/m
6.8	9.36	37.51
6.9	9.35	37.64
7	9.38	37.74
7.1	9.45	37.79
7.2	9.58	37.78
7.3	9.75	37.73
7.4	9.94	37.66
7.5	10.10	37.62
7.6	10.23	37.61
7.7	10.30	37.65
7.8	10.33	37.73
7.9	10.32	37.85
8	10.31	37.97
8.1	10.30	38.09
8.2	10.31	38.19
8.3	10.32	38.28
8.4	10.34	38.37
8.5	10.37	38.44
8.6	10.41	38.50
8.7	10.47	38.54
8.8	10.53	38.58
8.9	10.61	38.60
9	10.70	38.61
9.1	10.80	38.60
9.2	10.91	38.58
9.3	11.03	38.56
9.4	11.14	38.55
9.5	11.23	38.55
9.6	11.29	38.58
9.7	11.32	38.63
9.8	11.34	38.71
9.9	11.33	38.80
10	11.32	38.90
10.1	11.32	38.99
10.2	11.33	39.06
10.3	11.36	39.11
10.4	11.42	39.14
10.5	11.49	39.15
10.6	11.57	39.16
10.7	11.64	39.16
10.8	11.70	39.19
10.9	11.73	39.24
11	11.73	39.32
11.1	11.69	39.44
11.2	11.63	39.57
11.3	11.56	39.72
11.4	11.49	39.87
11.5	11.43	40.00

Frequency GHz	Max Gain over Frequency	Ant.-Factor
	dBi	dB/m
11.6	11.39	40.12
11.7	11.38	40.20
11.8	11.39	40.27
11.9	11.41	40.32
12	11.45	40.36
12.1	11.48	40.39
12.2	11.53	40.42
12.3	11.57	40.45
12.4	11.60	40.48
12.5	11.64	40.52
12.6	11.68	40.55
12.7	11.71	40.59
12.8	11.74	40.62
12.9	11.77	40.66
13	11.80	40.70
13.1	11.83	40.74
13.2	11.87	40.77
13.3	11.91	40.79
13.4	11.96	40.80
13.5	12.01	40.82
13.6	12.06	40.83
13.7	12.10	40.86
13.8	12.12	40.89
13.9	12.14	40.94
14	12.15	40.99
14.1	12.16	41.05
14.2	12.17	41.10
14.3	12.18	41.15
14.4	12.20	41.19
14.5	12.22	41.22
14.6	12.25	41.25
14.7	12.29	41.28
14.8	12.32	41.31
14.9	12.35	41.34
15	12.37	41.37
15.1	12.39	41.41
15.2	12.40	41.45
15.3	12.42	41.50
15.4	12.43	41.54
15.5	12.43	41.60
15.6	12.42	41.66
15.7	12.40	41.73
15.8	12.37	41.82
15.9	12.33	41.92
16	12.28	42.02
16.1	12.23	42.13
16.2	12.19	42.22
16.3	12.17	42.30

Frequency GHz	Max Gain over Frequency	Ant.-Factor
	dBi	dB/m
16.4	12.16	42.35
16.5	12.18	42.39
16.6	12.21	42.41
16.7	12.25	42.42
16.8	12.29	42.44
16.9	12.32	42.46
17	12.34	42.49
17.1	12.34	42.54
17.2	12.33	42.60
17.3	12.32	42.66
17.4	12.30	42.73
17.5	12.29	42.79
17.6	12.28	42.85
17.7	12.29	42.89
17.8	12.31	42.92
17.9	12.32	42.96
18	12.35	42.98
18.1	12.39	42.99
18.2	12.42	43.00
18.3	12.46	43.00
18.4	12.50	43.01
18.5	12.53	43.03
18.6	12.56	43.05
18.7	12.60	43.06
18.8	12.64	43.06
18.9	12.69	43.06
19	12.72	43.08
19.1	12.73	43.11
19.2	12.74	43.15
19.3	12.74	43.20
19.4	12.73	43.25
19.5	12.72	43.30
19.6	12.72	43.34
19.7	12.73	43.38
19.8	12.75	43.40
19.9	12.79	43.41
20	12.83	43.41
20.1	12.89	43.40
20.2	12.94	43.39
20.3	13.00	43.37
20.4	13.06	43.36
20.5	13.11	43.34
20.6	13.16	43.34
20.7	13.19	43.34
20.8	13.22	43.36
20.9	13.23	43.39
21	13.23	43.44
21.1	13.22	43.49

Frequency GHz	Max Gain over Frequency	Ant.-Factor
	dBi	dB/m
21.2	13.21	43.54
21.3	13.20	43.59
21.4	13.21	43.62
21.5	13.23	43.64
21.6	13.26	43.65
21.7	13.31	43.64
21.8	13.36	43.63
21.9	13.41	43.61
22	13.47	43.60
22.1	13.51	43.60
22.2	13.54	43.61
22.3	13.55	43.64
22.4	13.55	43.68
22.5	13.53	43.73
22.6	13.52	43.79
22.7	13.50	43.84
22.8	13.50	43.88
22.9	13.51	43.91
23	13.54	43.92
23.1	13.57	43.92
23.2	13.62	43.91
23.3	13.66	43.91
23.4	13.70	43.91
23.5	13.74	43.91
23.6	13.77	43.91
23.7	13.79	43.93
23.8	13.79	43.96
23.9	13.79	44.00
24	13.78	44.04
24.1	13.77	44.09
24.2	13.76	44.14
24.3	13.76	44.17
24.4	13.77	44.20
24.5	13.79	44.21
24.6	13.83	44.21
24.7	13.86	44.21
24.8	13.90	44.21
24.9	13.94	44.20
25	13.97	44.21
25.1	14.00	44.22
25.2	14.01	44.24
25.3	14.01	44.27
25.4	14.00	44.31
25.5	13.99	44.36
25.6	13.97	44.42
25.7	13.95	44.47
25.8	13.99	44.46
25.9	14.04	44.44

Frequency GHz	Max Gain over Frequency	Ant.-Factor
	dBi	dB/m
26	14.09	44.43
26.1	14.14	44.41
26.2	14.19	44.40
26.3	14.23	44.39
26.4	14.26	44.39
26.5	14.28	44.40
26.6	14.30	44.42
26.7	14.31	44.44
26.8	14.33	44.45
26.9	14.37	44.45
27	14.42	44.43
27.1	14.52	44.36
27.2	14.63	44.28
27.3	14.72	44.23
27.4	14.78	44.20
27.5	14.82	44.19
27.6	14.85	44.19
27.7	14.87	44.20
27.8	14.91	44.20
27.9	14.95	44.18
28	15.02	44.15
28.1	15.09	44.10
28.2	15.17	44.06
28.3	15.24	44.01
28.4	15.31	43.98
28.5	15.36	43.96
28.6	15.41	43.94
28.7	15.46	43.92
28.8	15.51	43.90
28.9	15.56	43.87
29	15.62	43.85
29.1	15.66	43.84
29.2	15.69	43.84
29.3	15.71	43.85
29.4	15.70	43.89
29.5	15.68	43.94
29.6	15.66	43.99
29.7	15.64	44.04
29.8	15.64	44.07
29.9	15.66	44.07
30	15.72	44.04
30.1	15.80	44.00
30.2	15.88	43.94
30.3	15.94	43.90
30.4	15.98	43.89
30.5	15.99	43.92
30.6	15.95	43.98
30.7	15.89	44.08

Frequency GHz	Max Gain over Frequency	Ant.-Factor
	dBi	dB/m
30.8	15.81	44.18
30.9	15.75	44.27
31	15.71	44.34
31.1	15.70	44.38
31.2	15.71	44.39
31.3	15.72	44.41
31.4	15.73	44.43
31.5	15.70	44.49
31.6	15.63	44.58
31.7	15.53	44.71
31.8	15.40	44.87
31.9	15.25	45.04
32	15.12	45.21

Calibration Uncertainty (k=2):
Frequency range $f < 10$ GHz
Frequency range $30 \text{ GHz} < f < 40 \text{ GHz}$

