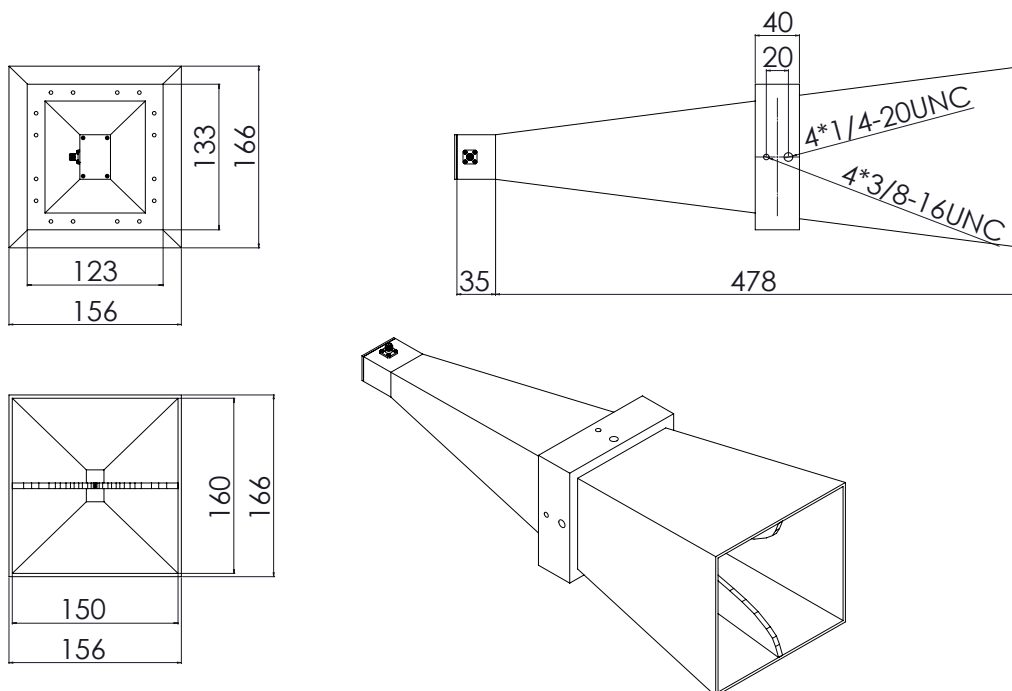


Broadband Horn Antenna *Dual Ridged Horn*



Description:

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

Specifications:	
Nominal Frequency Range:	2GHz...18GHz
Usable Frequency Range:	1800MHz ... 19 GHz
Isotropic Gain:	10-25dBi
Antenna Factor:	26-32dB/m
Nominal Impedance:	50 Ω
Standing Wave Ratio SWR typical:	≈ 1.5
Front to Back Ratio:	> 25 dB
Cross Polarisation:	> 25dB(2GHz...18GHz)
3 dB Beamwidth typ. (E-Plane):	11.8° ... 51.5°
3 dB Beamwidth typ. (H-Plane):	7.1° ... 51.6°
Max. Input Power:	see diagram
N-Connector female	
Mount: Custom design	
Width x Length x Thickness:	156*166*478mm
Weight:	4.00kg

Frequency GHz	Max Gain over Frequency	Ant.-Factor
	dBi	dB/m
2.00	10.18	26.06
2.50	11.61	26.57
3.00	12.66	27.10
3.50	13.46	27.64
4.00	14.14	28.12
4.50	15.20	28.08
5.00	16.16	28.04
5.50	16.36	28.67
6.00	16.57	29.21
6.50	17.31	29.16
7.00	18.01	29.12
7.50	18.44	29.29
8.00	18.83	29.45
8.50	19.09	29.72
9.00	19.07	30.24
9.50	19.48	30.29
10.00	19.87	30.35
10.50	20.40	30.24
11.00	20.61	30.44
11.50	21.22	30.22
12.00	21.38	30.42
12.50	20.61	31.55
13.00	19.15	33.35
13.50	18.00	34.83
14.00	20.87	32.27
14.50	23.28	30.17
15.00	24.69	29.05
15.50	25.48	28.55
16.00	25.69	28.61
16.50	25.43	29.14
17.00	24.92	29.91
17.50	24.17	30.91
18.00	23.16	32.17

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

