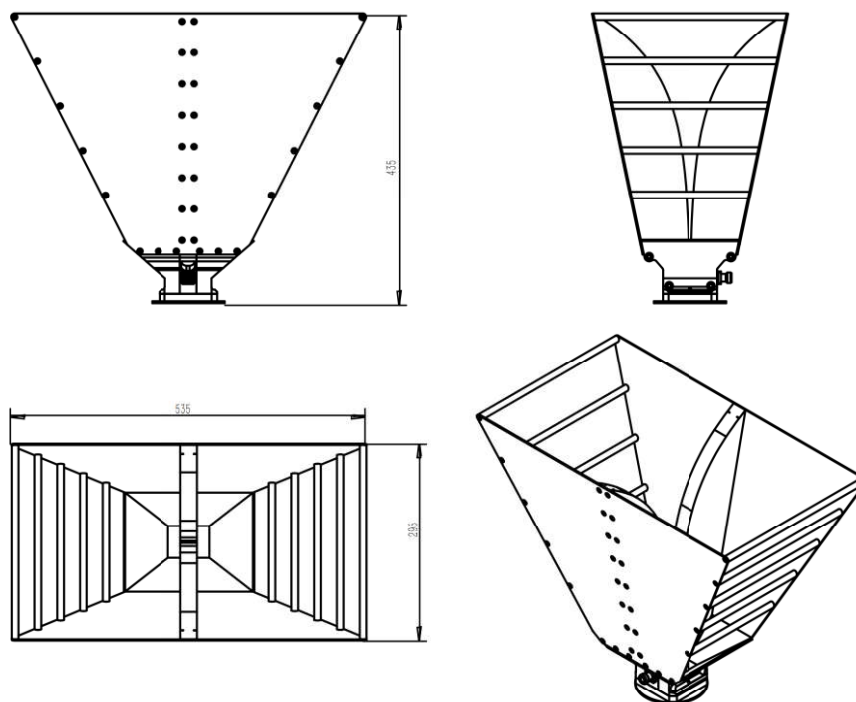


## Broadband Horn Antenna *Dual Ridged Horn*



### **Description:**

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

### **Specifications:**

|                                  |                       |
|----------------------------------|-----------------------|
| Nominal Frequency Range:         | 400MHz...6GHz         |
| Usable Frequency Range:          | 350MHz ... 6 GHz      |
| Isotropic Gain:                  | 6-15 dBi              |
| Antenna Factor:                  | 10-25dB/m             |
| Nominal Impedance:               | 50 $\Omega$           |
| Standing Wave Ratio SWR typical: | $\approx 1.5$         |
| Front to Back Ratio:             | > 25 dB               |
| Cross Polarisation:              | > 25dB(400MHz...6GHz) |
| 3 dB Beamwidth typ. (E-Plane):   | 101.9°...30.2°        |
| 3 dB Beamwidth typ. (H-Plane):   | 70°...17.5°           |
| Max. Input Power:                | see diagram           |
| N-Connector female               |                       |
| Mount: Custom design             |                       |
| Width x Length x Thickness:      | 535×435×296mm         |
| Weight:                          | 4.63kg                |

| Frequency GHz | Max Gain over<br>Frequency<br>dBi | Ant.-Factor<br>dB/m |
|---------------|-----------------------------------|---------------------|
| 0.4           | 6.43                              | 15.83               |
| 0.5           | 7.65                              | 16.55               |
| 0.6           | 8.29                              | 17.50               |
| 0.7           | 9.17                              | 17.95               |
| 0.8           | 10.57                             | 17.71               |
| 0.9           | 10.21                             | 19.09               |
| 1             | 9.51                              | 20.71               |
| 1.1           | 10.90                             | 20.15               |
| 1.2           | 10.85                             | 20.95               |
| 1.3           | 11.61                             | 20.89               |
| 1.4           | 11.75                             | 21.40               |
| 1.5           | 11.96                             | 21.79               |
| 1.6           | 12.73                             | 21.57               |
| 1.7           | 12.66                             | 22.17               |
| 1.8           | 12.56                             | 22.77               |
| 1.9           | 12.65                             | 23.15               |
| 2             | 11.60                             | 24.64               |
| 2.1           | 12.38                             | 24.28               |
| 2.2           | 12.49                             | 24.58               |
| 2.3           | 12.37                             | 25.09               |
| 2.4           | 12.18                             | 25.64               |
| 2.5           | 12.27                             | 25.91               |
| 2.6           | 12.90                             | 25.62               |
| 2.7           | 12.99                             | 25.86               |
| 2.8           | 12.70                             | 26.46               |
| 2.9           | 12.80                             | 26.67               |
| 3             | 12.57                             | 27.19               |
| 3.1           | 12.68                             | 27.37               |
| 3.2           | 12.68                             | 27.64               |
| 3.3           | 12.34                             | 28.26               |
| 3.4           | 12.09                             | 28.76               |
| 3.5           | 12.18                             | 28.92               |
| 3.6           | 12.35                             | 29.00               |
| 3.7           | 12.54                             | 29.04               |
| 3.8           | 12.62                             | 29.19               |
| 3.9           | 12.69                             | 29.35               |
| 4             | 12.77                             | 29.50               |
| 4.1           | 13.02                             | 29.46               |
| 4.2           | 13.19                             | 29.49               |
| 4.3           | 13.25                             | 29.64               |
| 4.4           | 13.38                             | 29.71               |
| 4.5           | 13.50                             | 29.78               |
| 4.6           | 13.71                             | 29.77               |

| Frequency GHz | Max Gain over<br>Frequency<br>dBi | Ant.-Factor<br>dB/m |
|---------------|-----------------------------------|---------------------|
| 4.7           | 13.57                             | 30.09               |
| 4.8           | 13.59                             | 30.25               |
| 4.9           | 13.80                             | 30.23               |
| 5             | 13.96                             | 30.24               |
| 5.1           | 14.06                             | 30.31               |
| 5.2           | 14.31                             | 30.23               |
| 5.3           | 14.29                             | 30.42               |
| 5.4           | 14.41                             | 30.45               |
| 5.5           | 15.07                             | 29.96               |
| 5.6           | 15.21                             | 29.97               |
| 5.7           | 15.44                             | 29.90               |
| 5.8           | 15.70                             | 29.78               |
| 5.9           | 15.75                             | 29.89               |
| 6             | 15.77                             | 30.01               |

Calibration Uncertainty (K=2)  
Frequency range f < 10 GHz

