

**MODEL NUMBER: DRHA18G** | **Broadband Horn Antenna, 0.7 - 18 GHz**

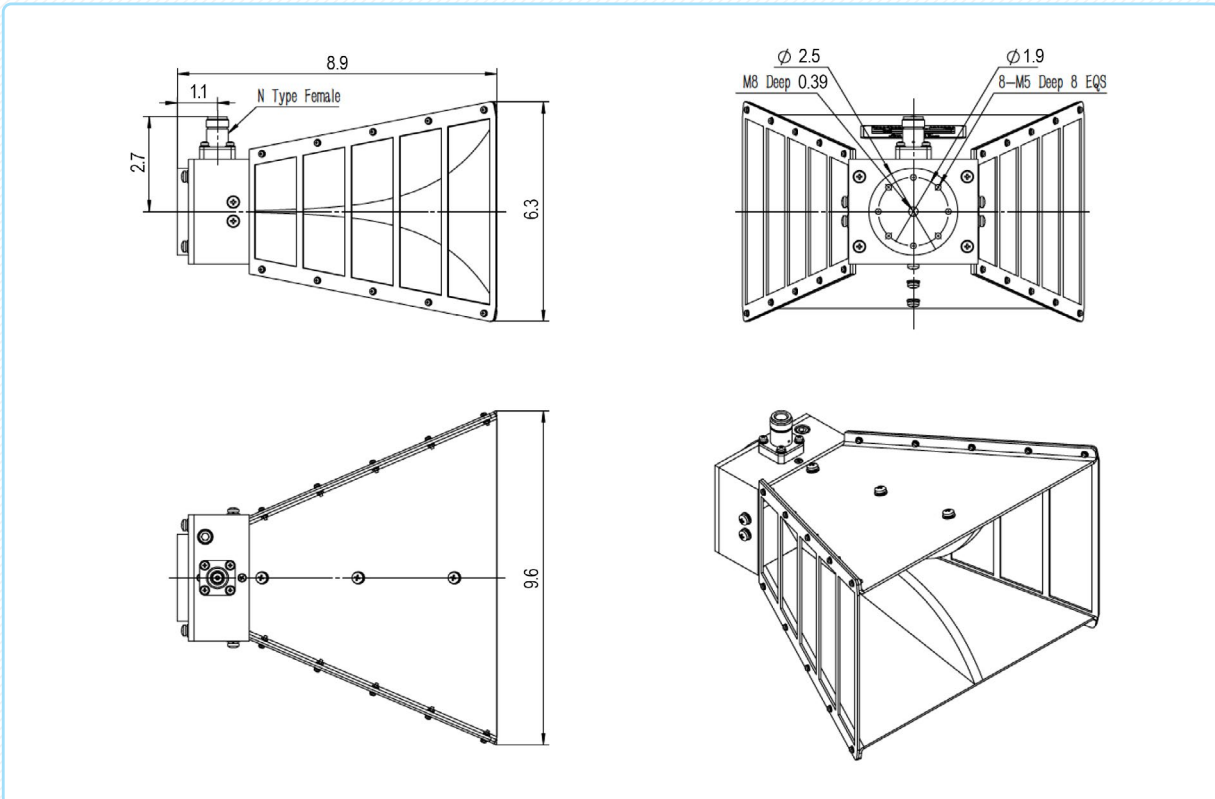


**TECHNICAL SPECIFICATION**

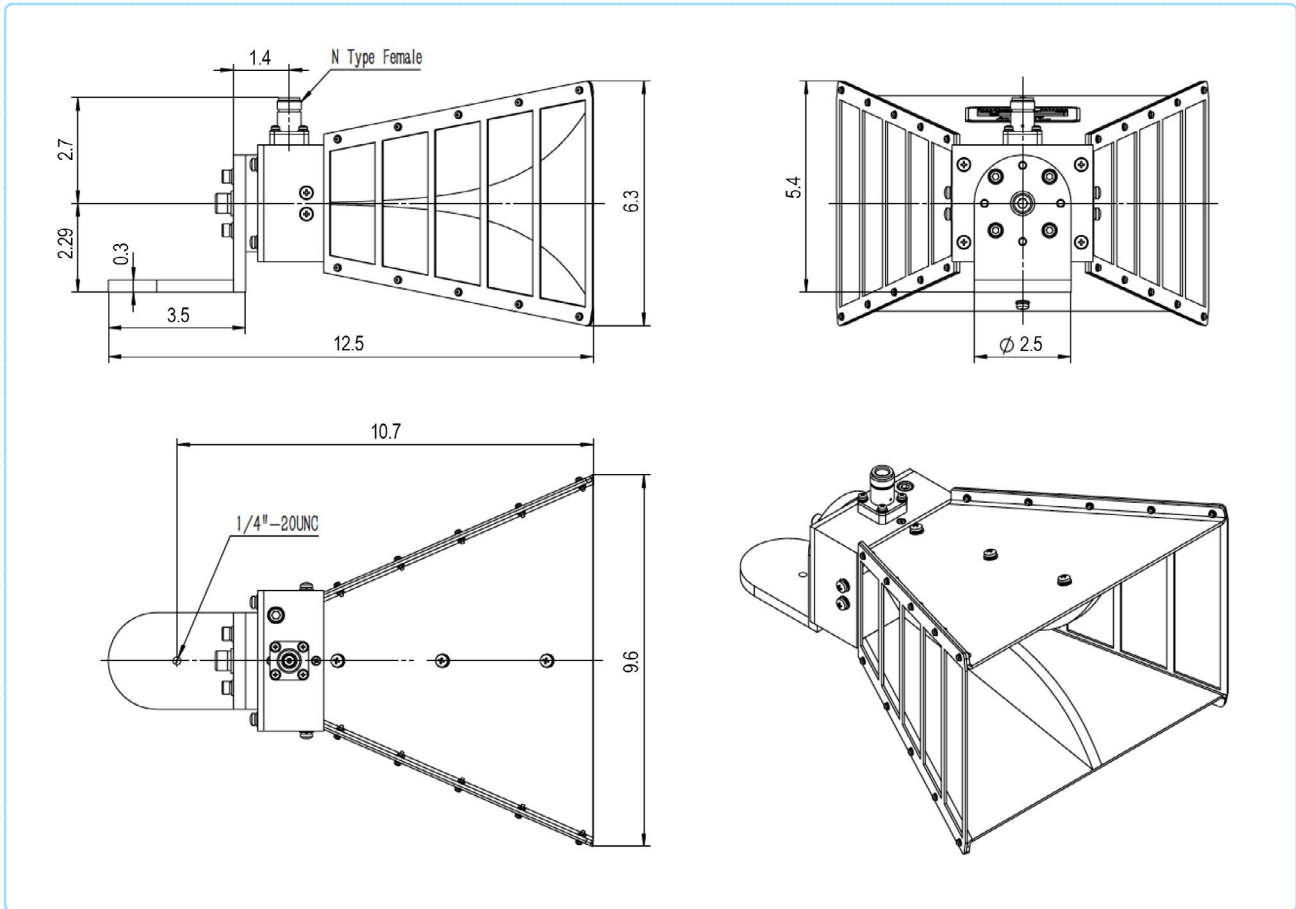
Frequency Range (GHz)	0.7 – 18.0
Gain (dBi)	12 Typ.
Polarization	Linear
3dB Beamwidth (deg)	E Plane: 111 - 13
	H Plane: 78 - 10
Cross Pol. Isolation (dB)	25 Typ.
Connector	N-Female or SMA-Female
Power Handling (W CW)	N-Female: 300 Max.
	SMA-Female: 50 Max.
Material	Al
Size (Inches)	9.6 x 6.31 x 8.9
Net Weight (Lb)	3.3 Around

**OUTLINE DRAWING (SIZE: INCHES)**

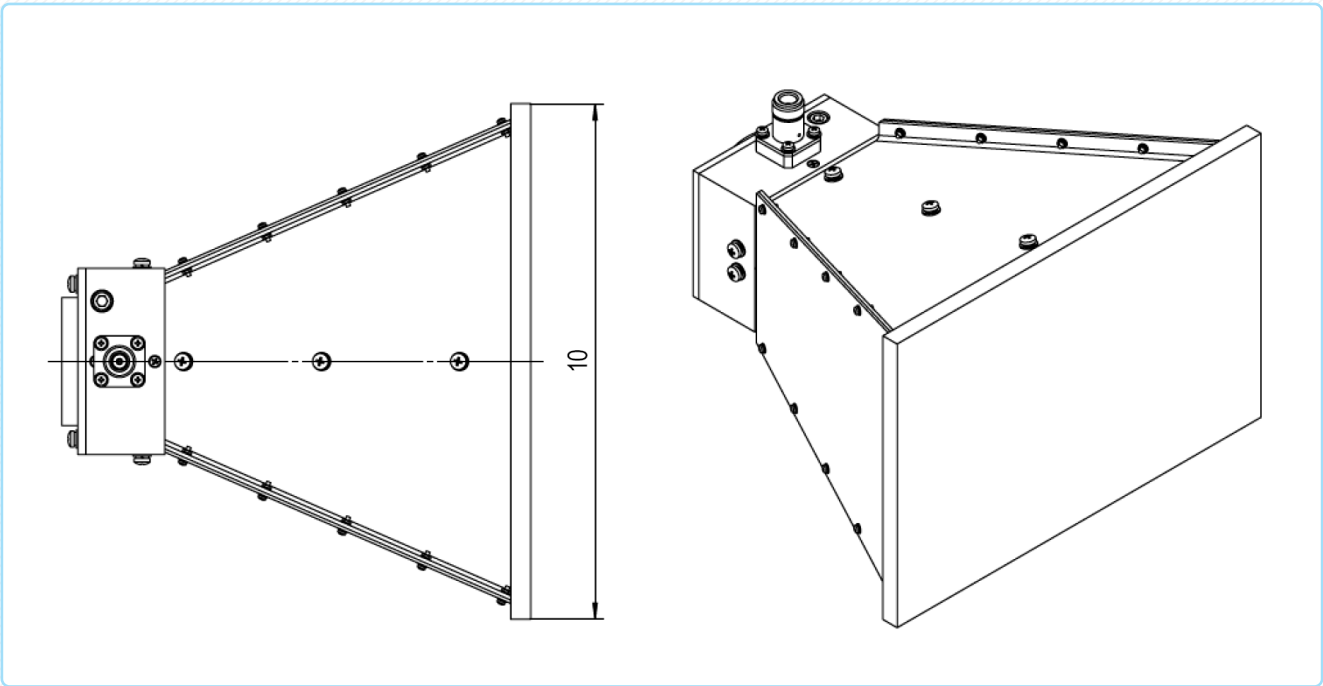
**N-FEMALE OUTPUT**



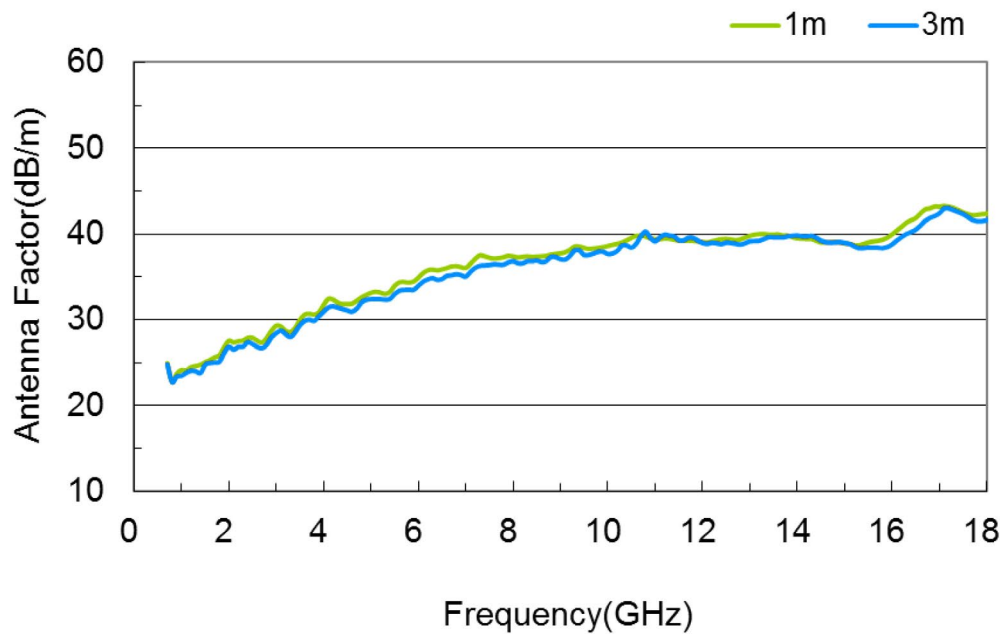
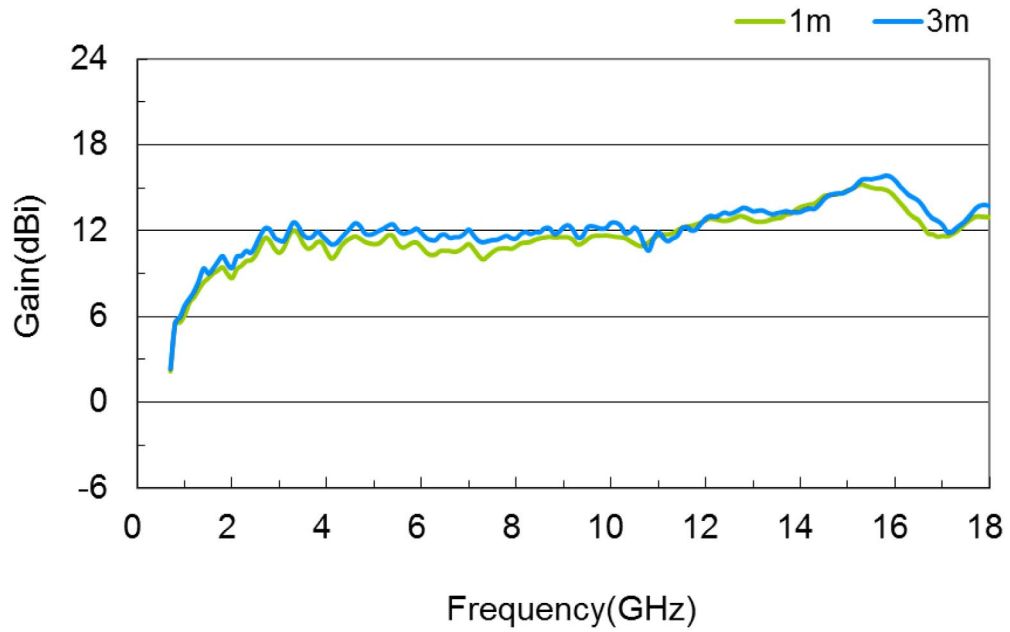
## N-FEMALE OUTPUT WITH L TYPE MOUNTING BRACKET



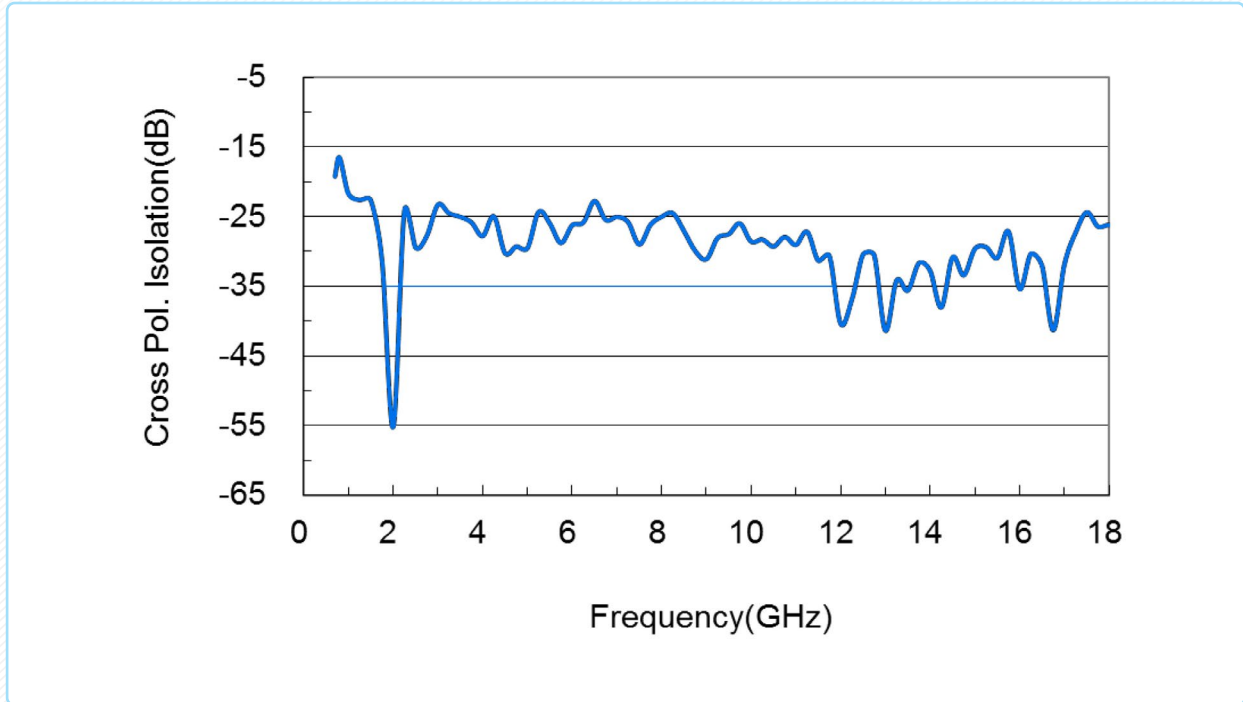
## N-FEMALE OUTPUT WITH RADOME



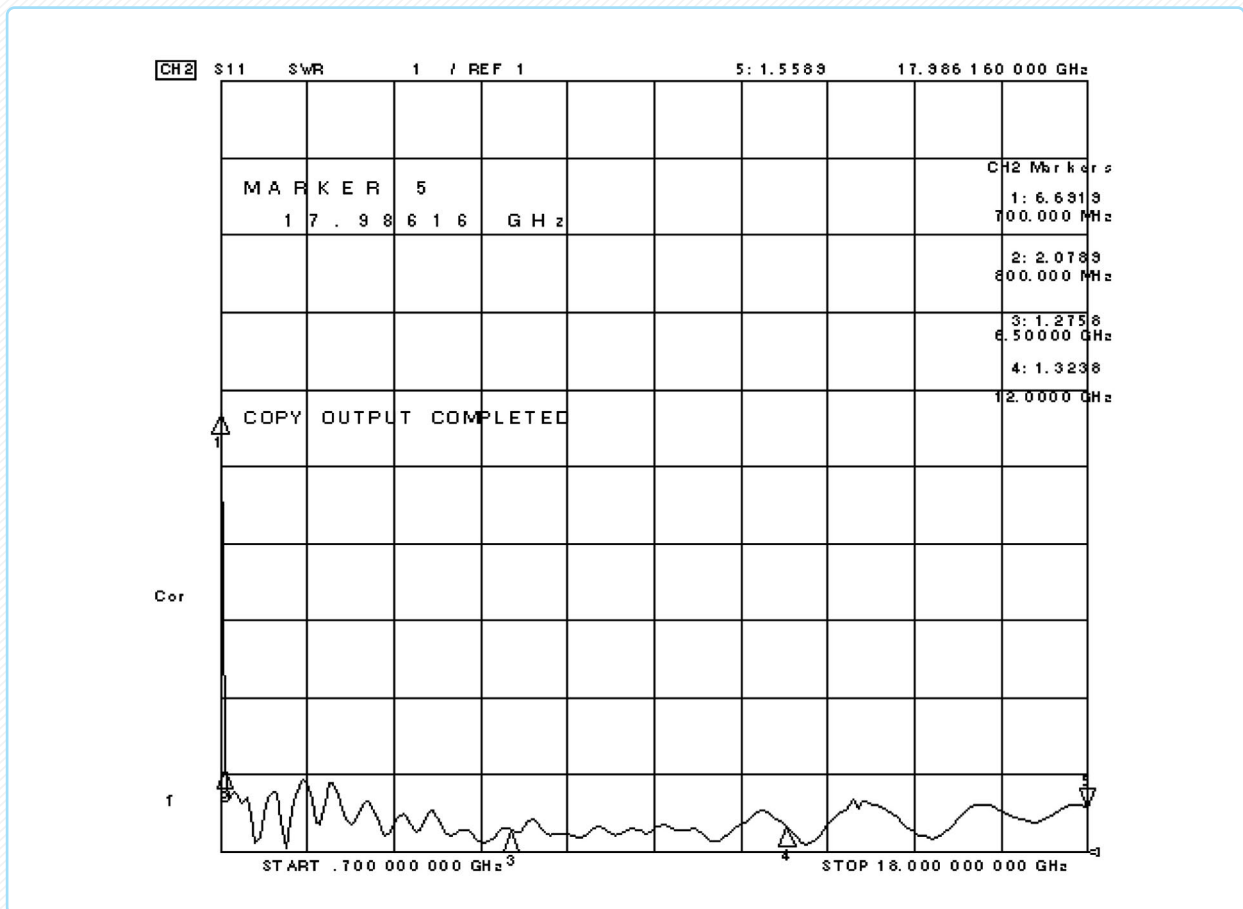
**1. GAIN & ANTENNA FACTOR**



## 2. CROSS POLARIZATION ISOLATION

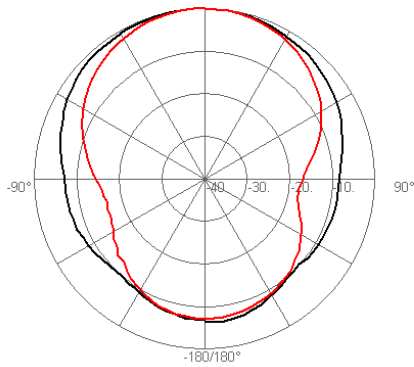


## 3. VSWR



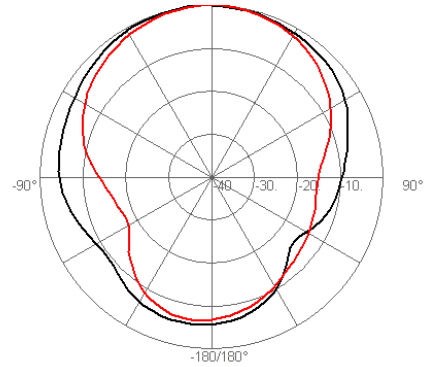
## 4. PATTERN

Frequency: 0.7GHz



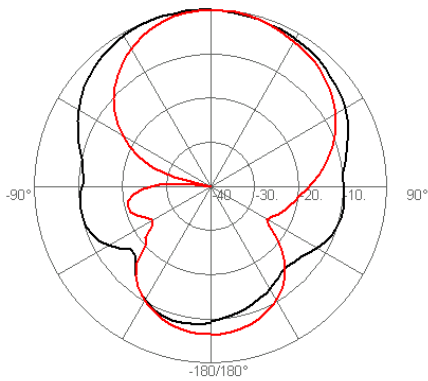
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 73.02    3dB Beamwidth (deg): 110.37

Frequency: 0.8GHz



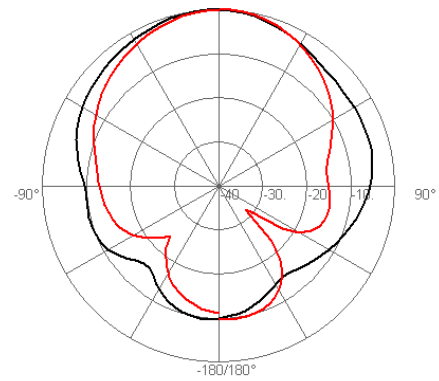
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 77.35    3dB Beamwidth (deg): 110.18

Frequency: 0.9GHz



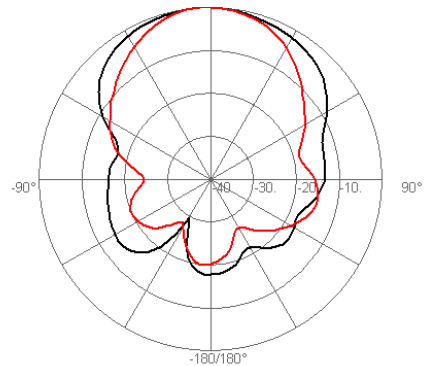
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 62.92    3dB Beamwidth (deg): 94.85

Frequency: 1GHz



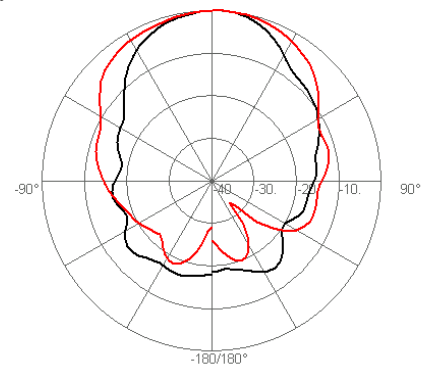
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 60.33    3dB Beamwidth (deg): 74.98

Frequency: 1.5GHz



H-Plane — E-Plane —  
 3dB Beamwidth (deg): 48.70    3dB Beamwidth (deg): 76.85

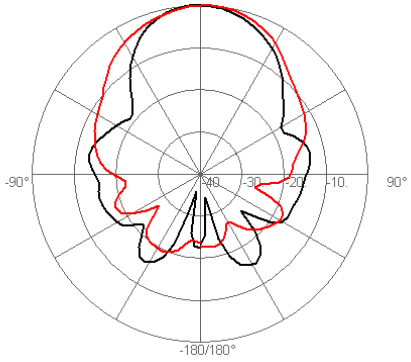
Frequency: 2GHz



H-Plane — E-Plane —  
 3dB Beamwidth (deg): 73.65    3dB Beamwidth (deg): 45.94

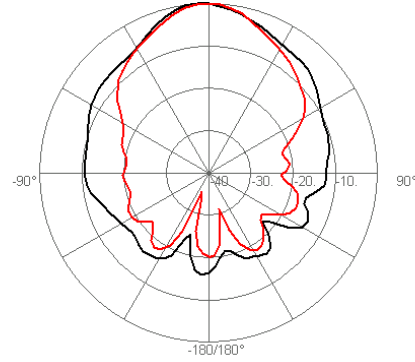


Frequency: 2.5GHz



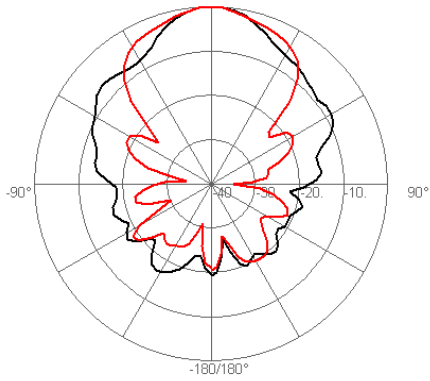
H-Plane — 3dB Beamwidth (deg): 50.45  
 E-Plane — 3dB Beamwidth (deg): 40.68

Frequency: 3GHz



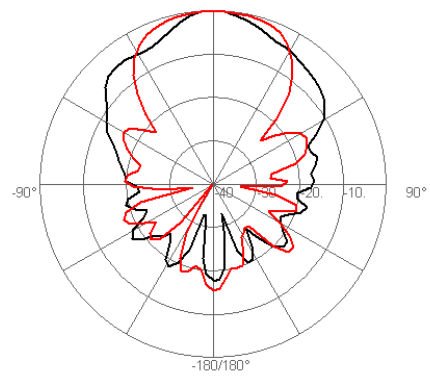
H-Plane — 3dB Beamwidth (deg): 34.00  
 E-Plane — 3dB Beamwidth (deg): 37.71

Frequency: 3.5GHz



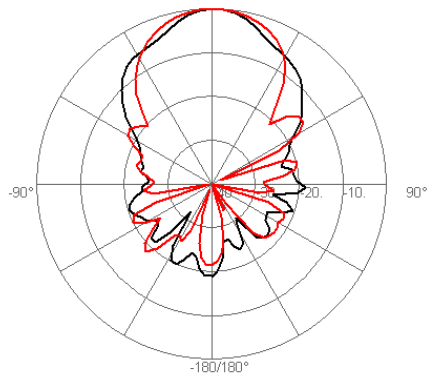
H-Plane — 3dB Beamwidth (deg): 45.40  
 E-Plane — 3dB Beamwidth (deg): 32.81

Frequency: 4GHz



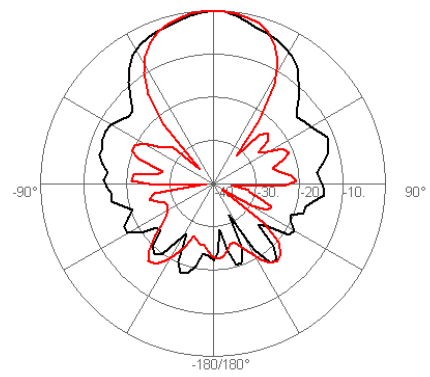
H-Plane — 3dB Beamwidth (deg): 52.66  
 E-Plane — 3dB Beamwidth (deg): 32.98

Frequency: 4.5GHz



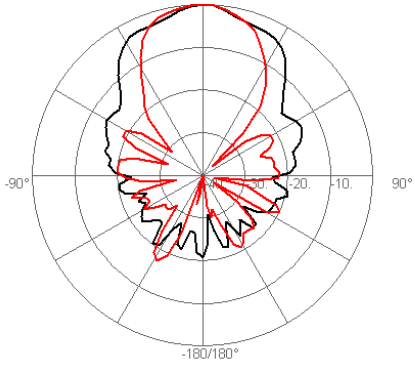
H-Plane — 3dB Beamwidth (deg): 41.17  
 E-Plane — 3dB Beamwidth (deg): 30.07

Frequency: 5GHz



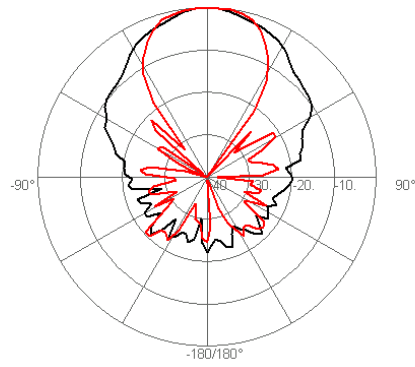
H-Plane — 3dB Beamwidth (deg): 41.04  
 E-Plane — 3dB Beamwidth (deg): 42.57

Frequency: 5.5GHz



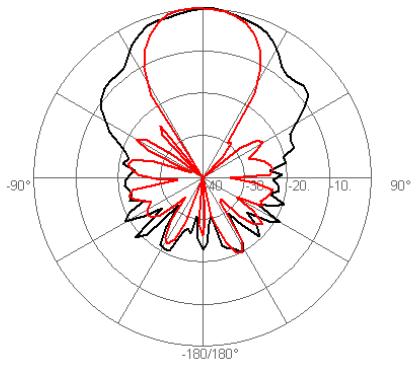
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 36.60    3dB Beamwidth (deg): 39.84

Frequency: 6GHz



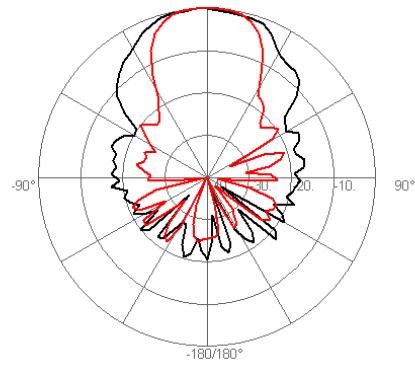
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 39.53    3dB Beamwidth (deg): 44.56

Frequency: 6.5GHz



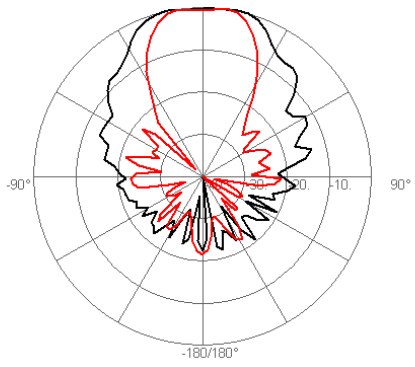
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 35.44    3dB Beamwidth (deg): 48.87

Frequency: 7GHz



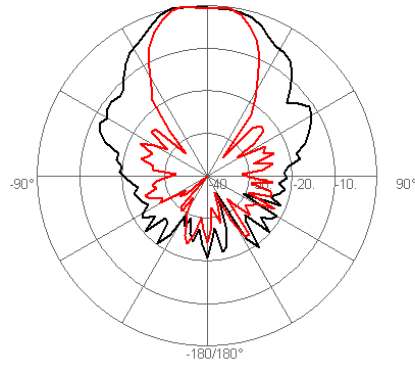
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 36.30    3dB Beamwidth (deg): 49.21

Frequency: 7.5GHz



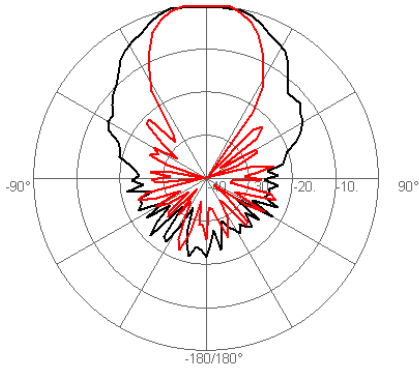
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 34.83    3dB Beamwidth (deg): 50.53

Frequency: 8GHz



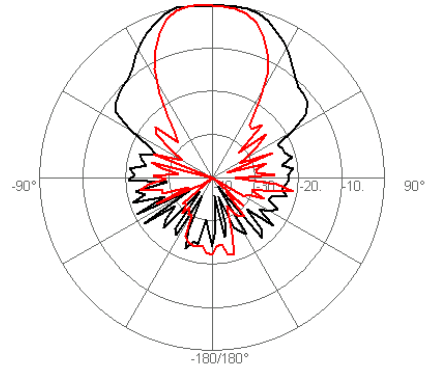
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 32.88    3dB Beamwidth (deg): 42.74

Frequency: 8.5GHz



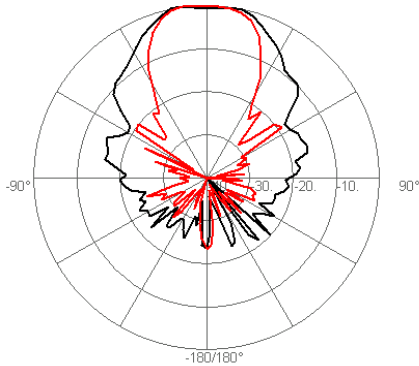
H-Plane — E-Plane —  
3dB Beamwidth (deg): 35.07    3dB Beamwidth (deg): 45.44

Frequency: 9GHz



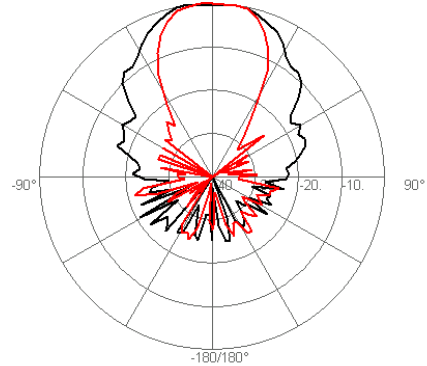
H-Plane — E-Plane —  
3dB Beamwidth (deg): 34.08    3dB Beamwidth (deg): 46.42

Frequency: 9.5GHz



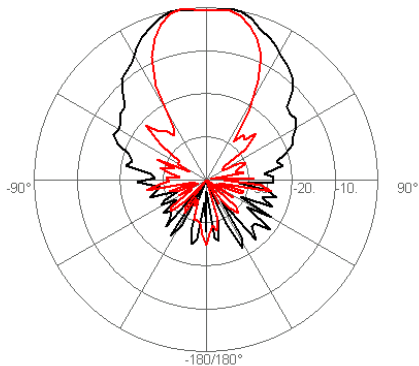
H-Plane — E-Plane —  
3dB Beamwidth (deg): 35.18    3dB Beamwidth (deg): 42.35

Frequency: 10GHz



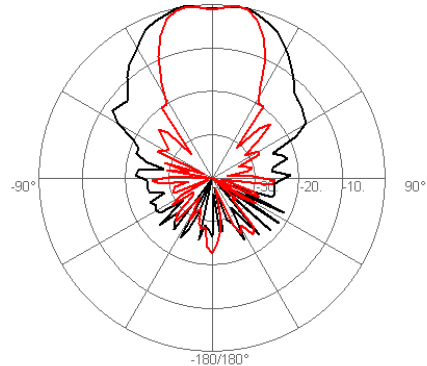
H-Plane — E-Plane —  
3dB Beamwidth (deg): 34.25    3dB Beamwidth (deg): 44.44

Frequency: 10.5GHz



H-Plane — E-Plane —  
3dB Beamwidth (deg): 33.03    3dB Beamwidth (deg): 42.43

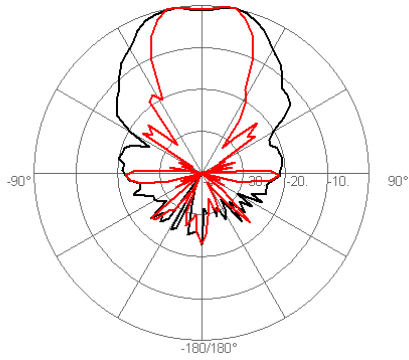
Frequency: 11GHz



H-Plane — E-Plane —  
3dB Beamwidth (deg): 34.37    3dB Beamwidth (deg): 48.06

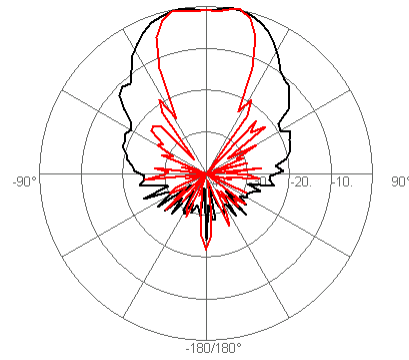


Frequency: 11.5GHz



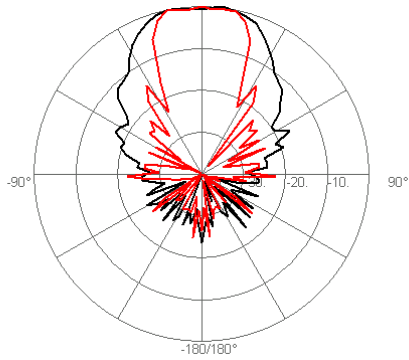
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 34.96    3dB Beamwidth (deg): 48.48

Frequency: 12GHz



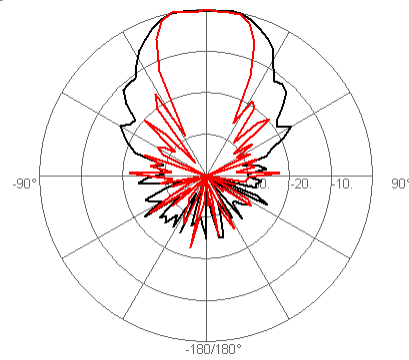
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 34.96    3dB Beamwidth (deg): 47.92

Frequency: 12.5GHz



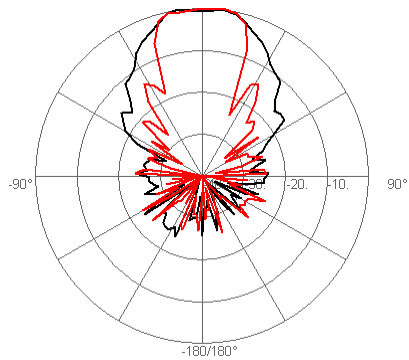
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 33.93    3dB Beamwidth (deg): 45.33

Frequency: 13GHz



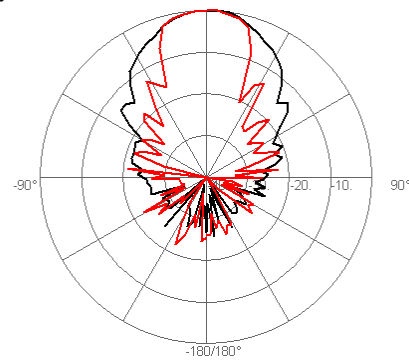
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 34.82    3dB Beamwidth (deg): 43.38

Frequency: 13.5GHz



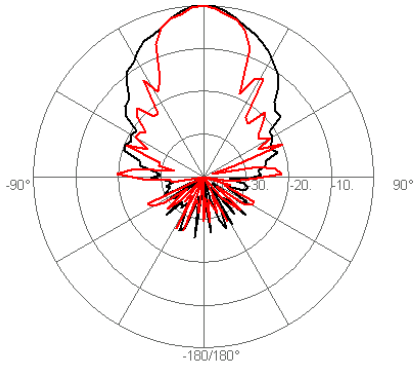
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 33.62    3dB Beamwidth (deg): 36.66

Frequency: 14GHz



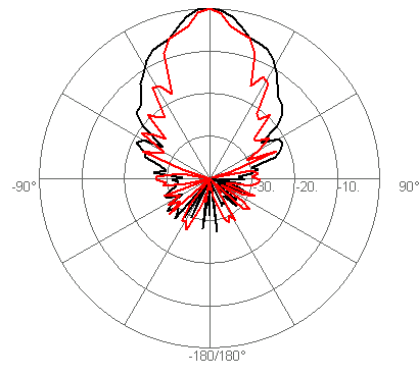
H-Plane — E-Plane —  
 3dB Beamwidth (deg): 32.73    3dB Beamwidth (deg): 35.76

Frequency: 14.5GHz



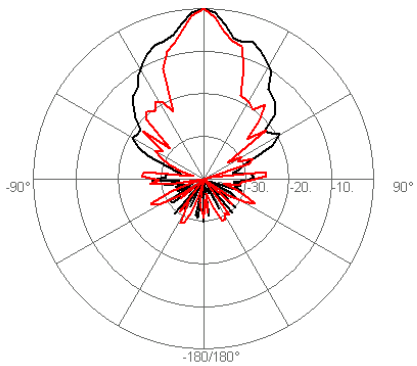
H-Plane — 3dB Beamwidth (deg): 26.92  
 E-Plane — 3dB Beamwidth (deg): 27.49

Frequency: 15GHz



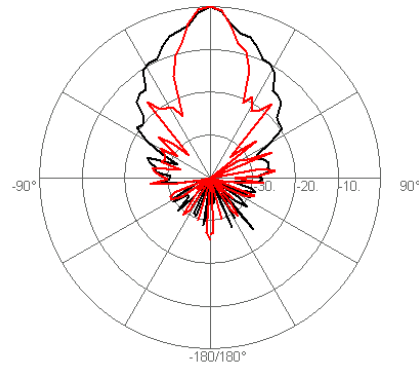
H-Plane — 3dB Beamwidth (deg): 13.62  
 E-Plane — 3dB Beamwidth (deg): 21.35

Frequency: 15.5GHz



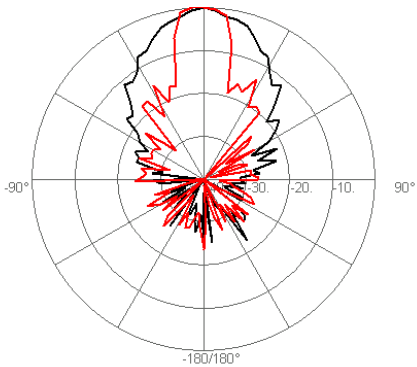
H-Plane — 3dB Beamwidth (deg): 10.94  
 E-Plane — 3dB Beamwidth (deg): 14.85

Frequency: 16GHz



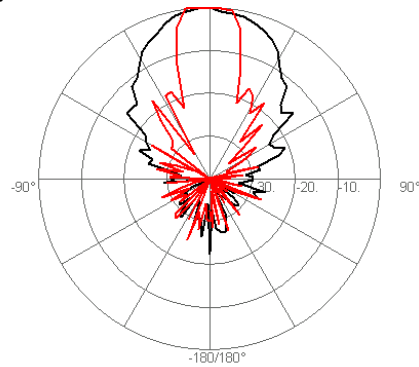
H-Plane — 3dB Beamwidth (deg): 13.57  
 E-Plane — 3dB Beamwidth (deg): 13.07

Frequency: 16.5GHz



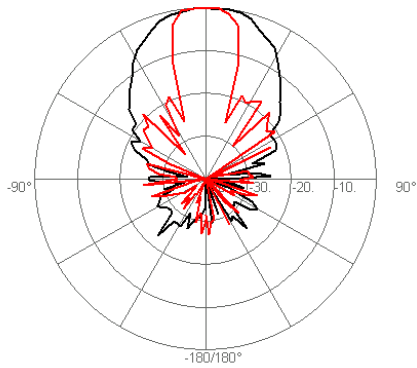
H-Plane — 3dB Beamwidth (deg): 18.40  
 E-Plane — 3dB Beamwidth (deg): 29.30

Frequency: 17GHz



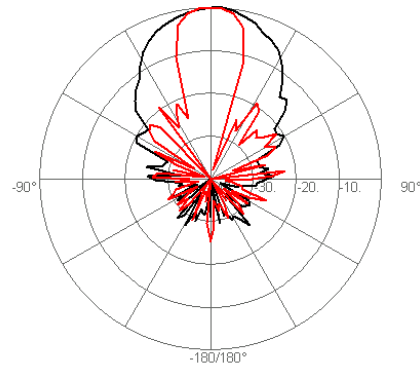
H-Plane — 3dB Beamwidth (deg): 21.58  
 E-Plane — 3dB Beamwidth (deg): 36.46

Frequency: 17.5GHz



H-Plane ——— 3dB Beamwidth (deg): 23.10  
E-Plane ——— 3dB Beamwidth (deg): 39.58

Frequency: 18GHz



H-Plane ——— 3dB Beamwidth (deg): 22.14  
E-Plane ——— 3dB Beamwidth (deg): 36.30

