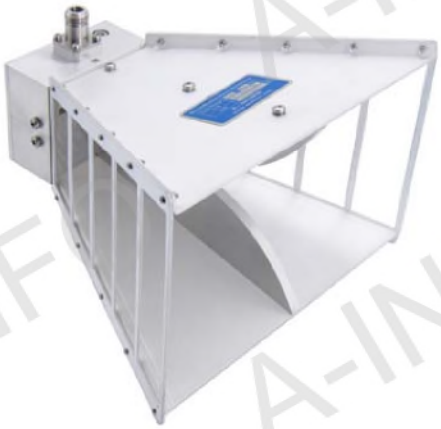
A-INFO

LB-8180
0.8 - 18GHz Broadband Horn Antenna

Technical Specification

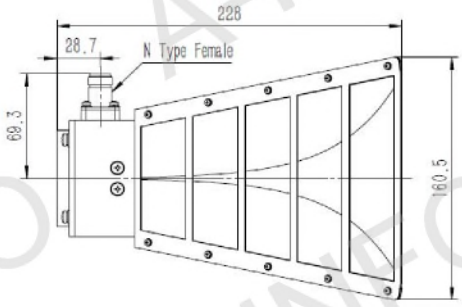


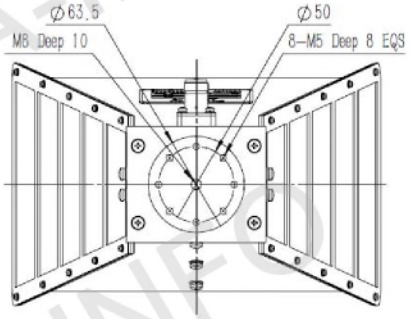
Frequency Range(GHz)	0.8 – 18.0	
Gain(dBi)	12 Typ.	
Polarization	Linear	
3dB Beamwidth(deg)	E Plane:	111 - 13
	H Plane:	78 - 10
Cross Pol. Isolation(dB)	25 Typ.	
VSWR	1.5:1 Typ.	
Connector	N-Female	
	or SMA-Female	
Power Handling(W)	N-Female:	300 Max. CW
	SMA-Female:	50 Max. CW
Material	Al	
Size(mm)	244 x 160.5 x 228	
Net Weight(Kg)	1.5 Around	

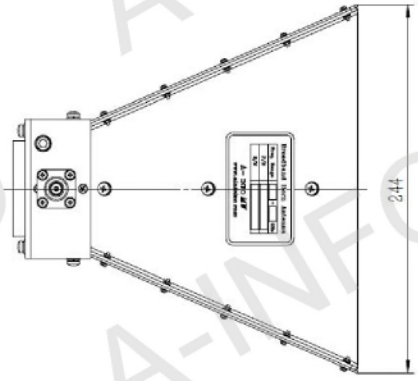
Outline Drawing (Size: mm)

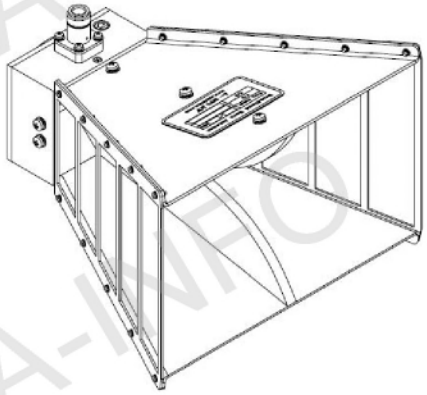
N-Female Output

For SMA-Female output outline drawing, please contact A-INFO.









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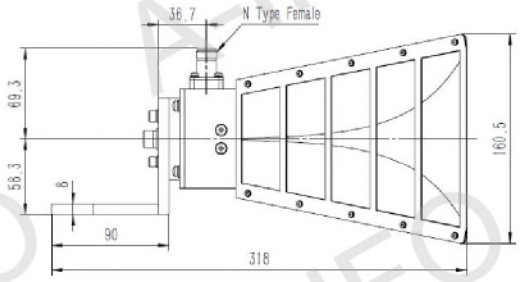
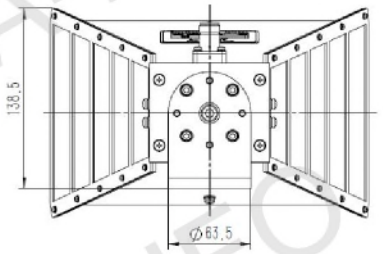
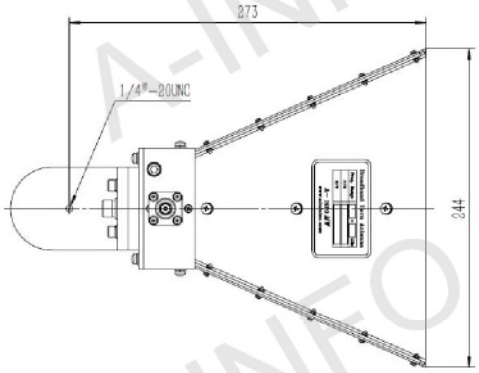
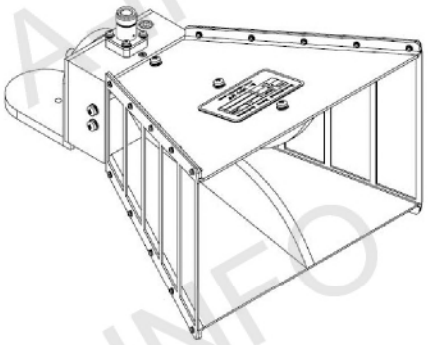
N-Female Output with L type mounting bracket

For SMA-Female output outline drawing, please contact A-INFO.



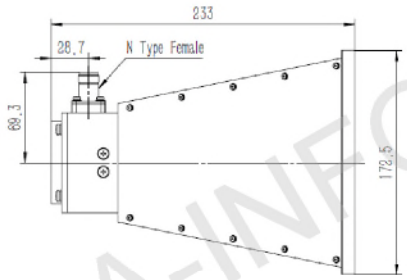


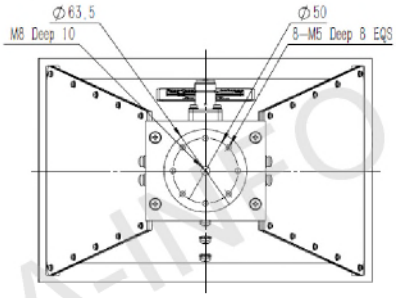


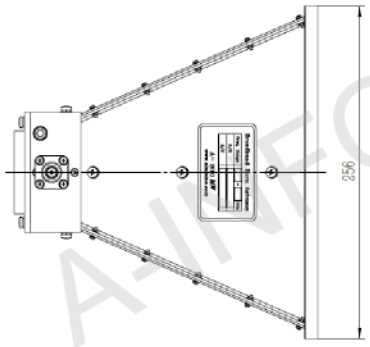


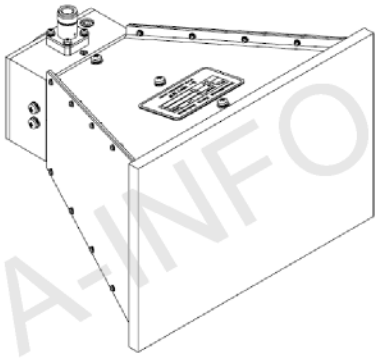
N-Female Output with Radome

For SMA-Female output outline drawing, please contact A-INFO.



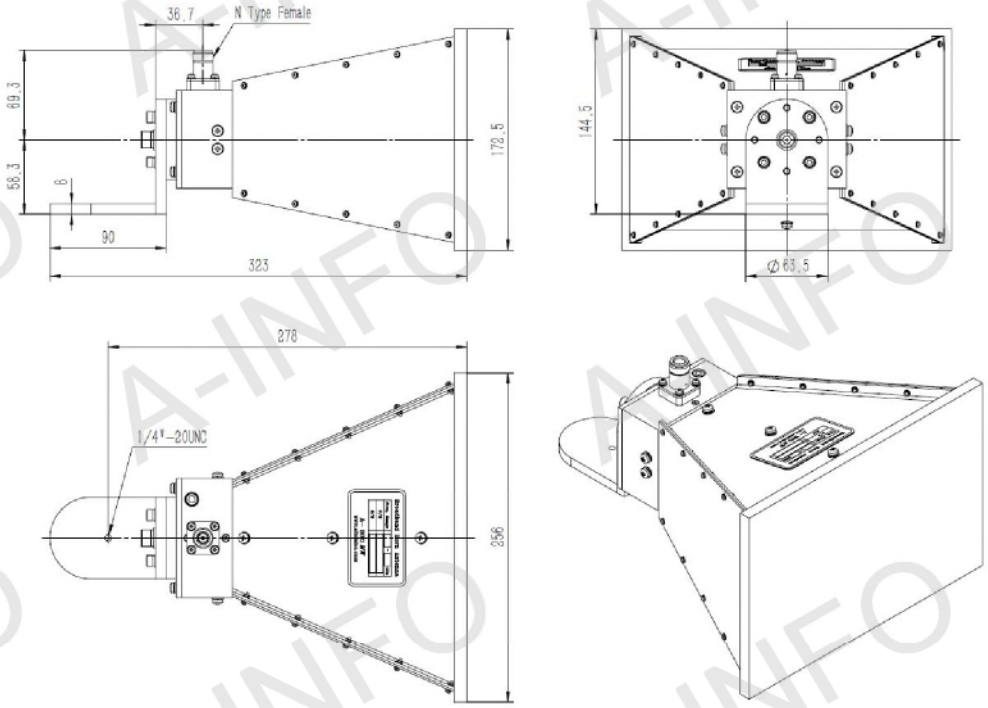






N-Female Output with L type mounting bracket & Radome

For SMA-Female output outline drawing, please contact A-INFO.



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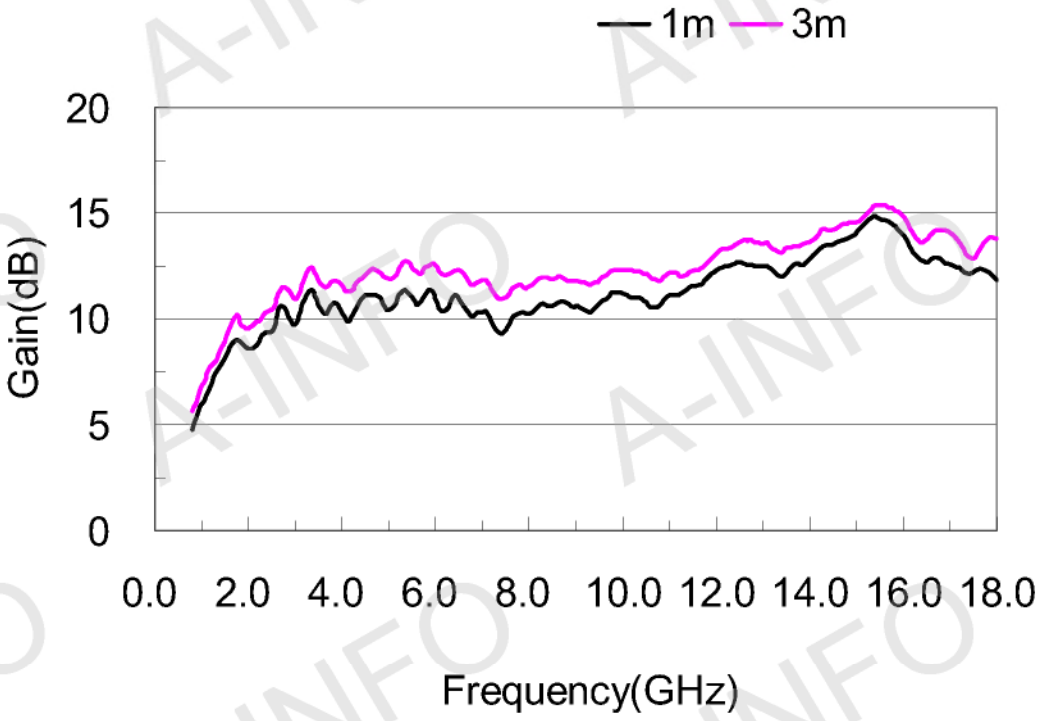
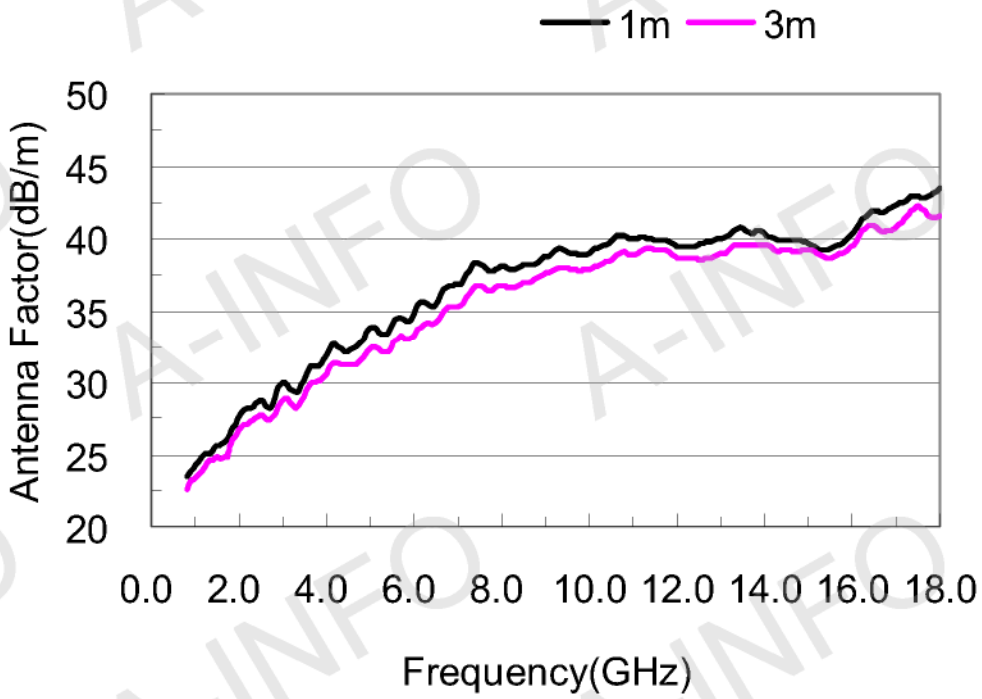
Test Results

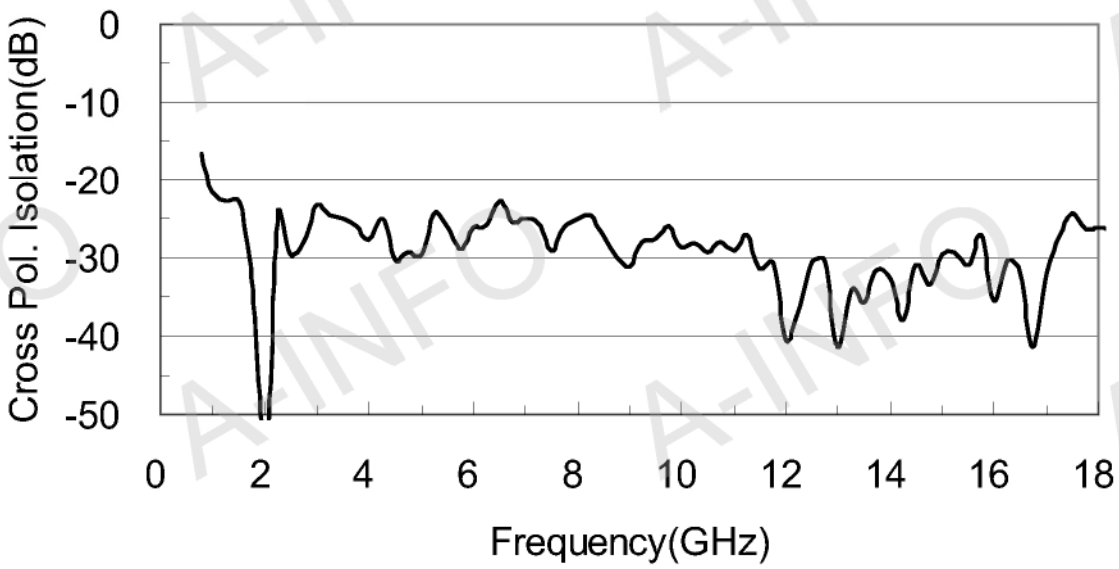
1. Gain



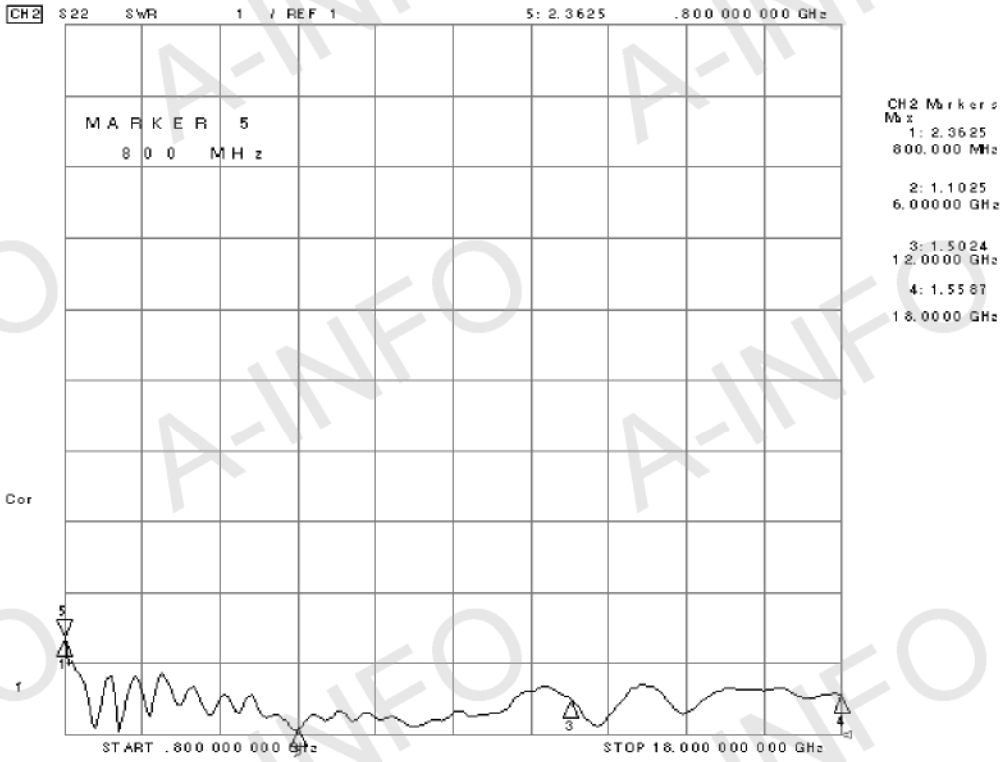
2. Antenna Factor



3. Cross Polarization Isolation

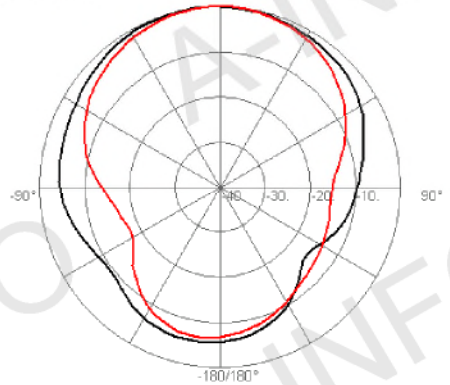


4. VSWR



5. Pattern

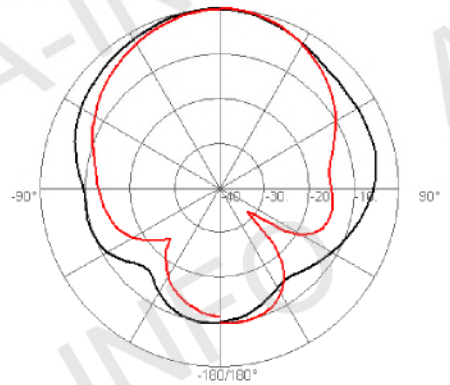
Frequency: 0.8GHz



H-Plane E-Plane

3dB Beamwidth (deg): 77.35 3dB Beamwidth (deg): 110.18

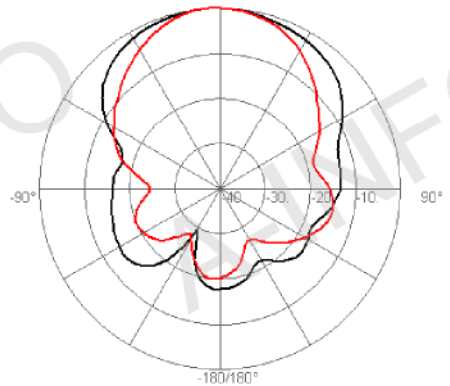
Frequency: 1GHz



H-Plane E-Plane

3dB Beamwidth (deg): 60.33 3dB Beamwidth (deg): 74.98

Frequency: 1.5GHz



H-Plane E-Plane

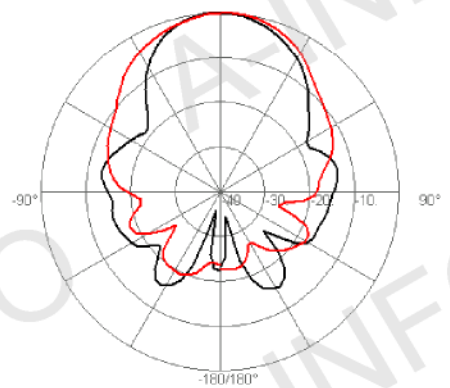
3dB Beamwidth (deg): 48.70 3dB Beamwidth (deg): 76.85

Frequency: 2GHz

H-Plane E-Plane

3dB Beamwidth (deg): 73.65 3dB Beamwidth (deg): 45.94

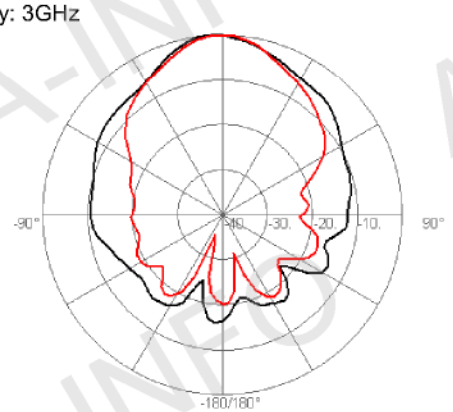
Frequency: 2.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 50.45 3dB Beamwidth (deg): 40.68

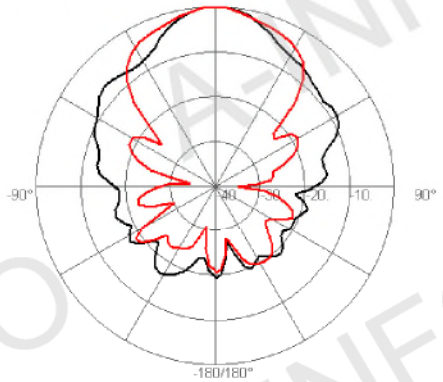
Frequency: 3GHz



H-Plane E-Plane

3dB Beamwidth (deg): 34.00 3dB Beamwidth (deg): 37.71

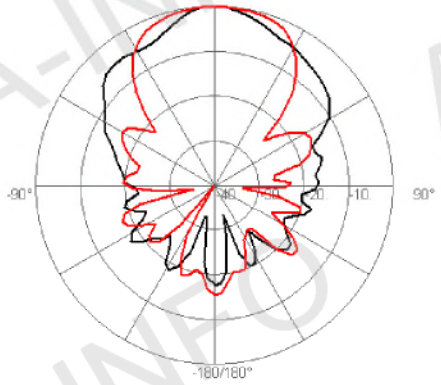
Frequency: 3.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 45.40 3dB Beamwidth (deg): 32.81

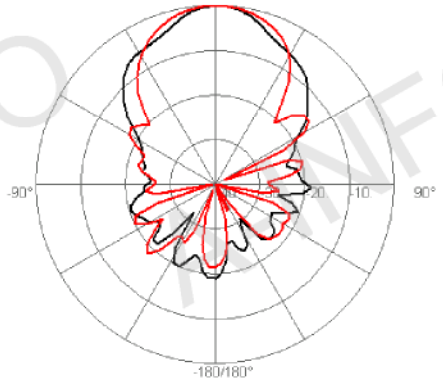
Frequency: 4GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 52.66 3dB Beamwidth (deg): 32.98

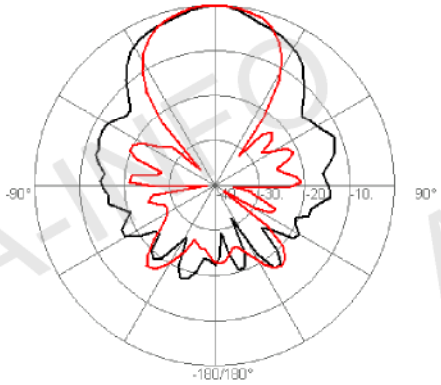
Frequency: 4.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 41.17 3dB Beamwidth (deg): 30.07

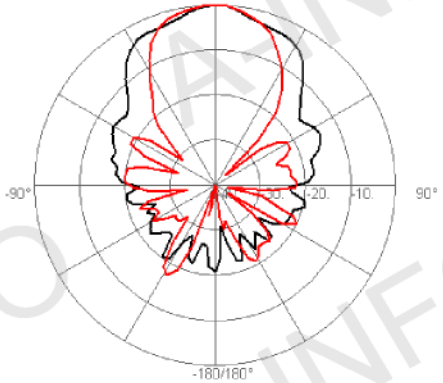
Frequency: 5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 41.04 3dB Beamwidth (deg): 42.57

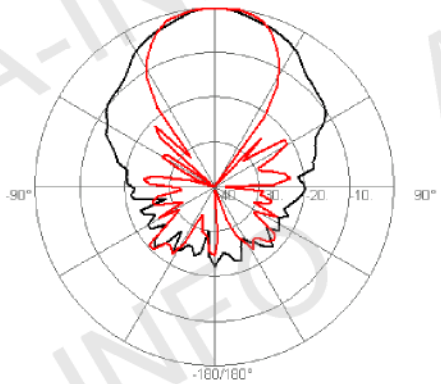
Frequency: 5.5GHz



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

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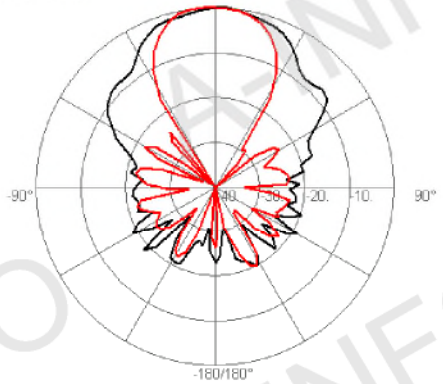
LB-8180
0.8 - 18GHz Broadband Horn Antenna

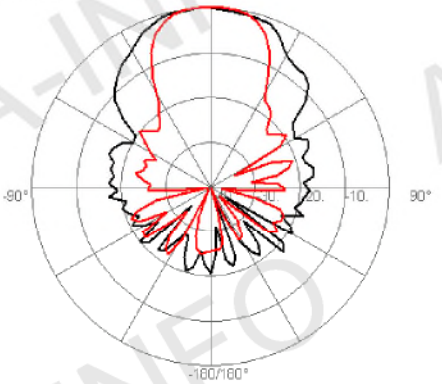
Frequency: 6.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 35.44 3dB Beamwidth (deg): 48.87

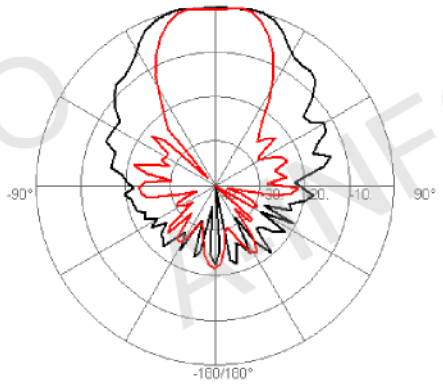
Frequency: 7GHz



H-Plane E-Plane

3dB Beamwidth (deg): 36.30 3dB Beamwidth (deg): 49.21

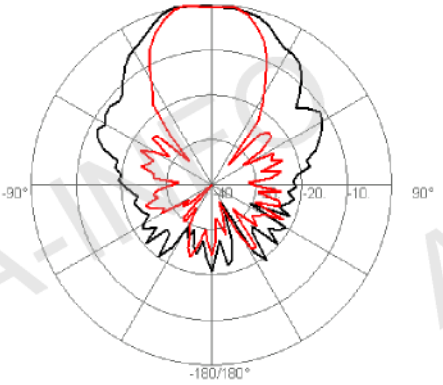
Frequency: 7.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 34.83 3dB Beamwidth (deg): 50.53

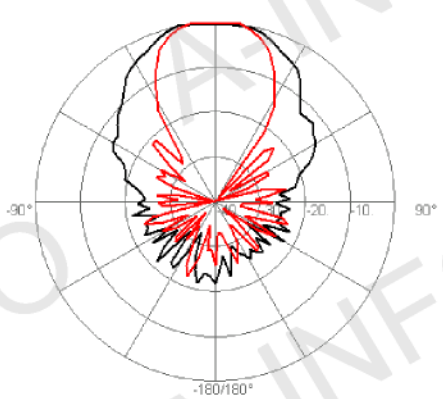
Frequency: 8GHz



H-Plane E-Plane

3dB Beamwidth (deg): 32.88 3dB Beamwidth (deg): 42.74

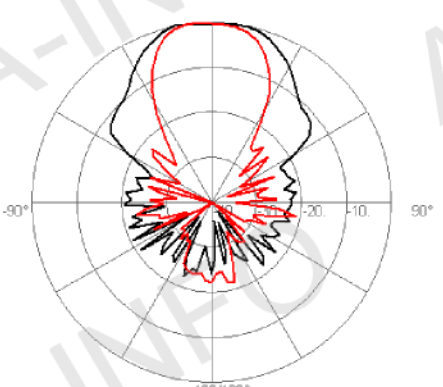
Frequency: 8.5GHz



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

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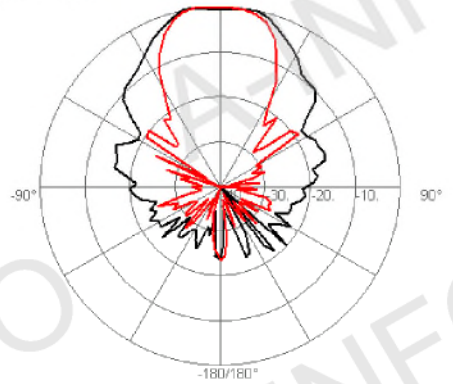
LB-8180
0.8 - 18GHz Broadband Horn Antenna

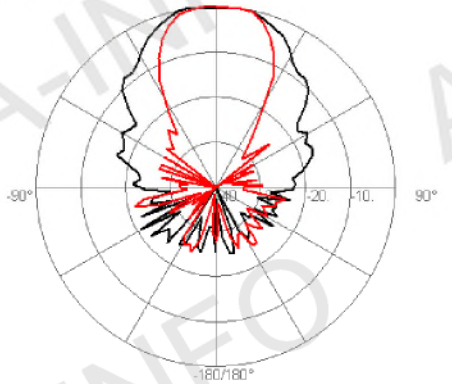
Frequency: 9.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 35.18 3dB Beamwidth (deg): 42.35

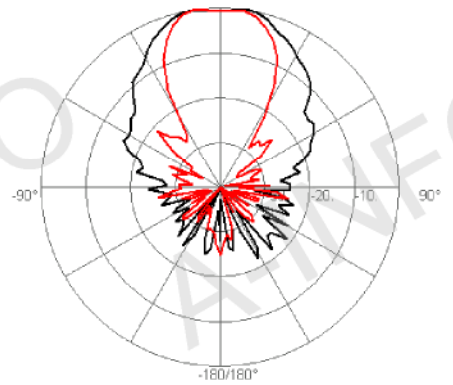
Frequency: 10GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 34.25 3dB Beamwidth (deg): 44.44

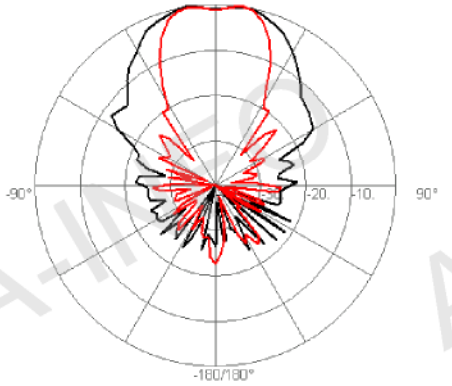
Frequency: 10.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 33.03 3dB Beamwidth (deg): 42.43

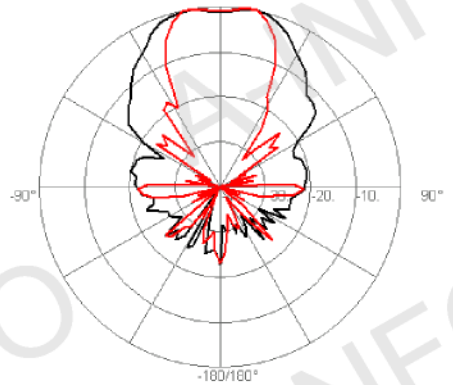
Frequency: 11GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 34.37 3dB Beamwidth (deg): 48.06

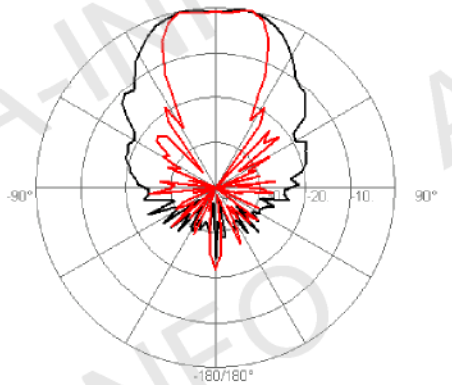
Frequency: 11.5GHz



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

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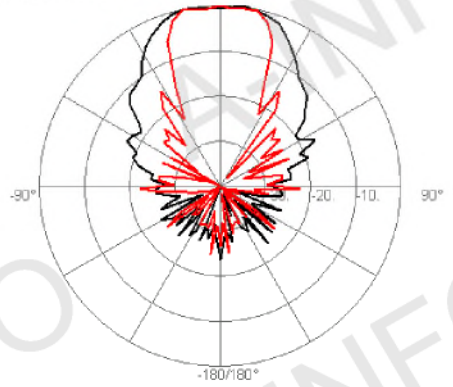
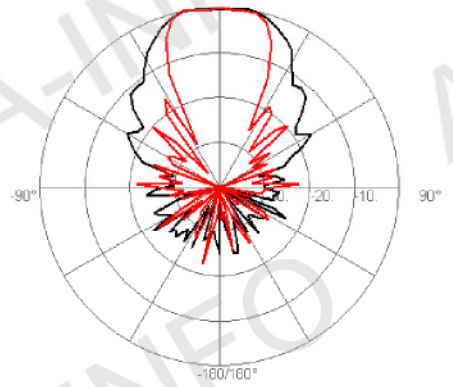
Frequency: 12.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 33.93 3dB Beamwidth (deg): 45.33

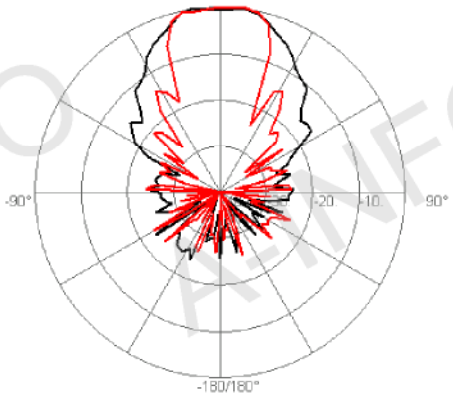
Frequency: 13GHz



H-Plane E-Plane

3dB Beamwidth (deg): 34.82 3dB Beamwidth (deg): 43.38

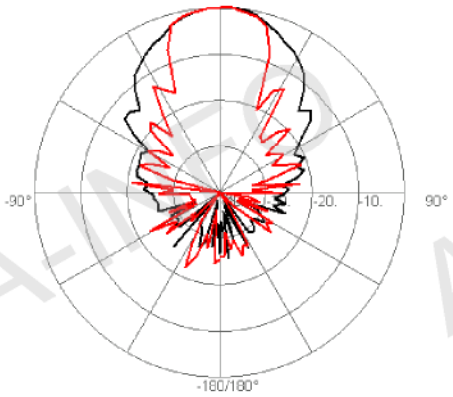
Frequency: 13.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 33.62 3dB Beamwidth (deg): 36.66

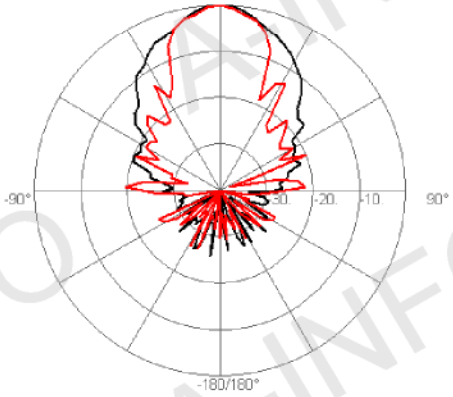
Frequency: 14GHz



H-Plane E-Plane

3dB Beamwidth (deg): 32.73 3dB Beamwidth (deg): 35.76

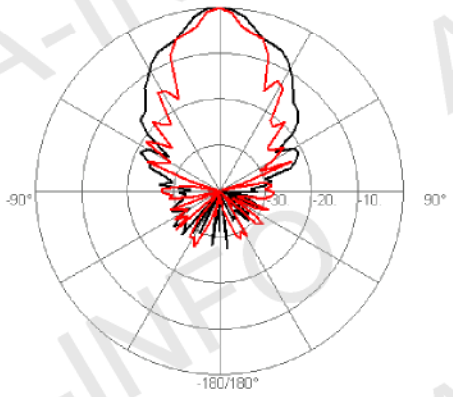
Frequency: 14.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 26.92 3dB Beamwidth (deg): 27.49

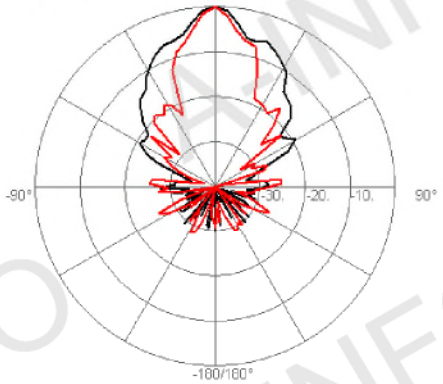
Frequency: 15GHz



H-Plane E-Plane

3dB Beamwidth (deg): 13.62 3dB Beamwidth (deg): 21.35

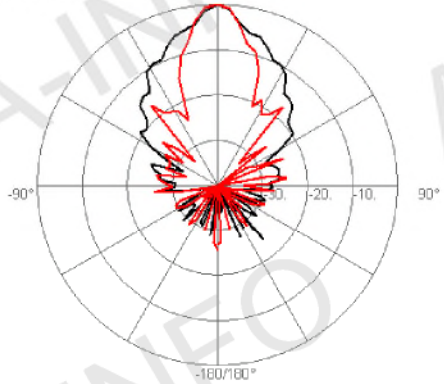
Frequency: 15.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 10.94 3dB Beamwidth (deg): 14.85

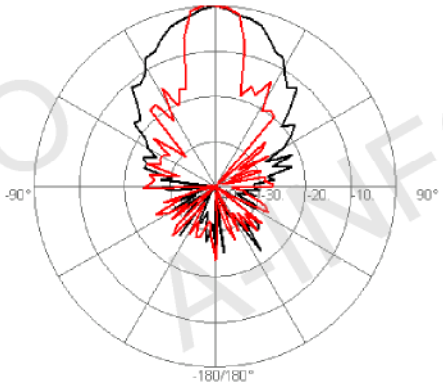
Frequency: 16GHz



H-Plane E-Plane

3dB Beamwidth (deg): 13.57 3dB Beamwidth (deg): 13.07

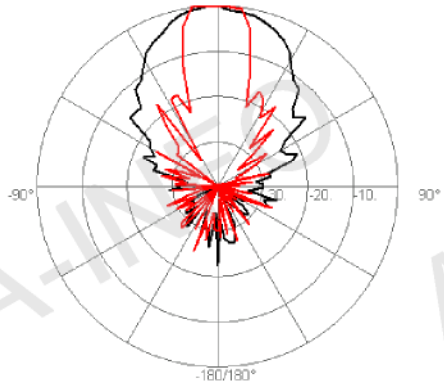
Frequency: 16.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 18.40 3dB Beamwidth (deg): 29.30

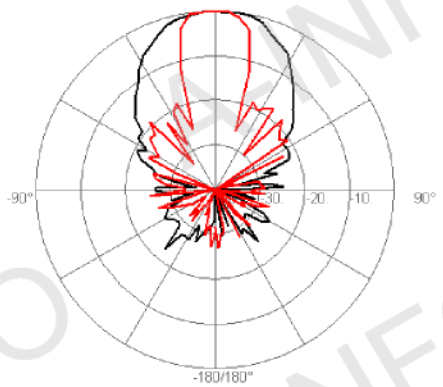
Frequency: 17GHz



H-Plane E-Plane

3dB Beamwidth (deg): 21.58 3dB Beamwidth (deg): 36.46

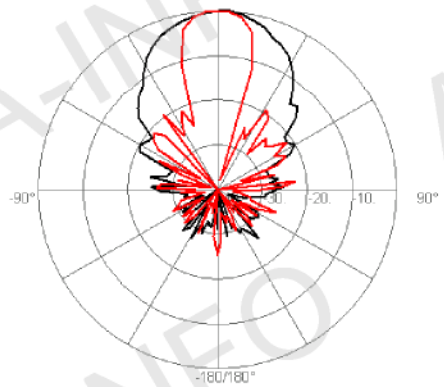
Frequency: 17.5GHz



H-Plane E-Plane

3dB Beamwidth (deg): 23.10 3dB Beamwidth (deg): 39.58

Frequency: 18GHz



H-Plane E-Plane

3dB Beamwidth (deg): 22.14 3dB Beamwidth (deg): 36.30