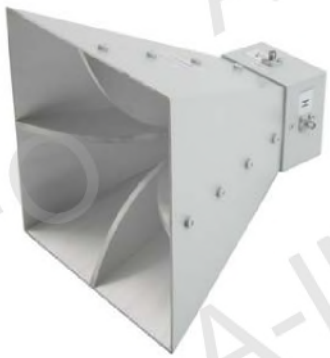
Technical Specification

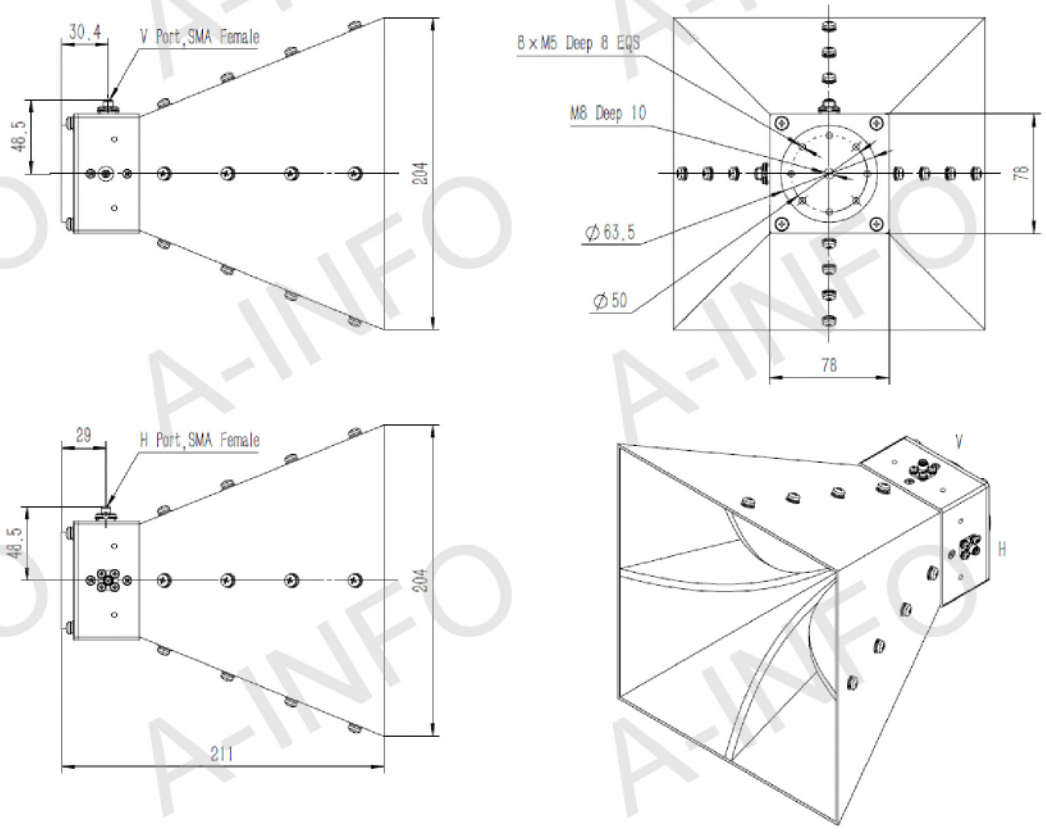


Frequency Range(GHz)	1 - 10
Gain(dB)	10 Typ.
Polarization	Dual Pol.
3dB Beamwidth(deg)	80-10
Cross Pol. Isolation(dB)	18 Min.
Port to Port Isolation(dB)	20 Min.
VSWR	1.5 : 1 Typ.
	2.5 : 1 Max.
Output	SMA-Female / N-Female
Power Handling(W)	SMA-Female 50 Max. CW
	N-Female 50 Max. CW
Material	Al
Size(mm)	204 x 204 x 211
Net Weight(Kg)	1.70 Around

Outline Drawing (Size: mm)

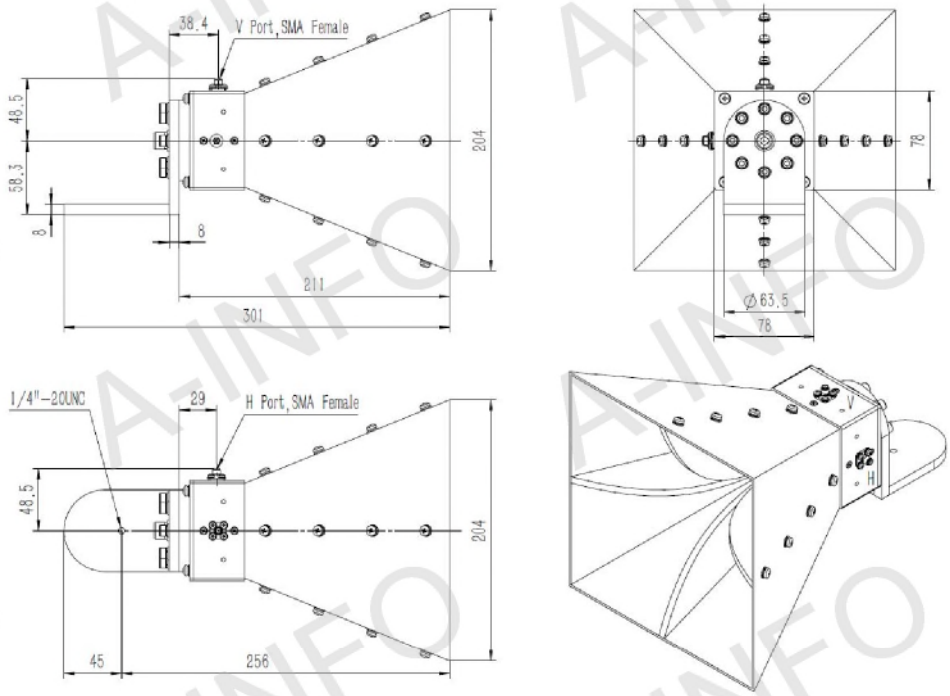
SMA Female Output

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



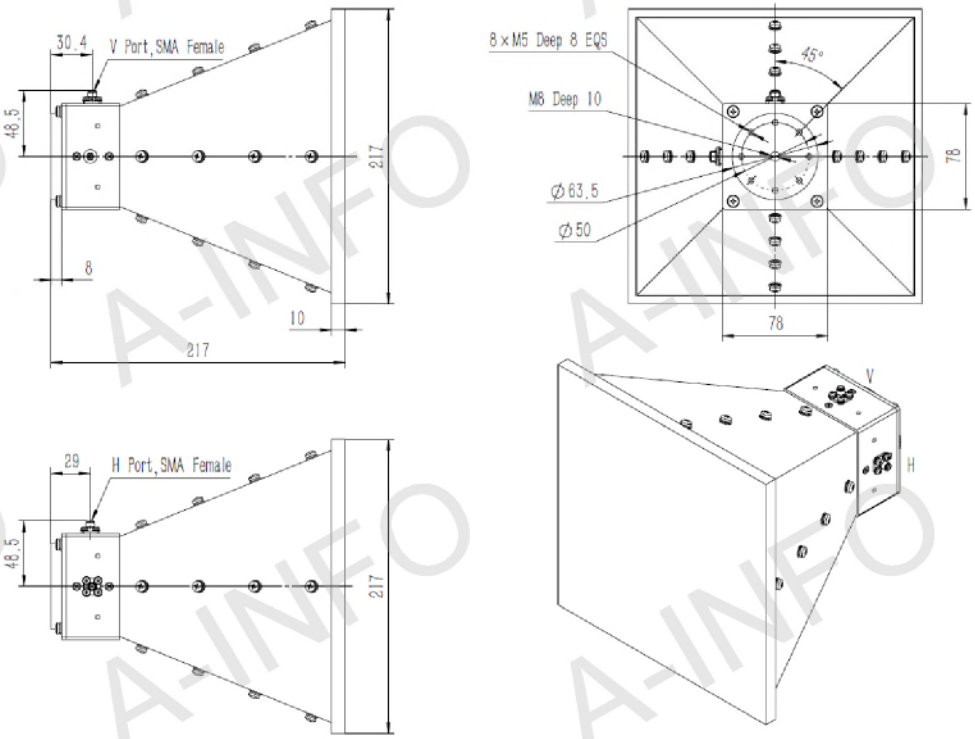
SMA Female Output with L type mounting bracket

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



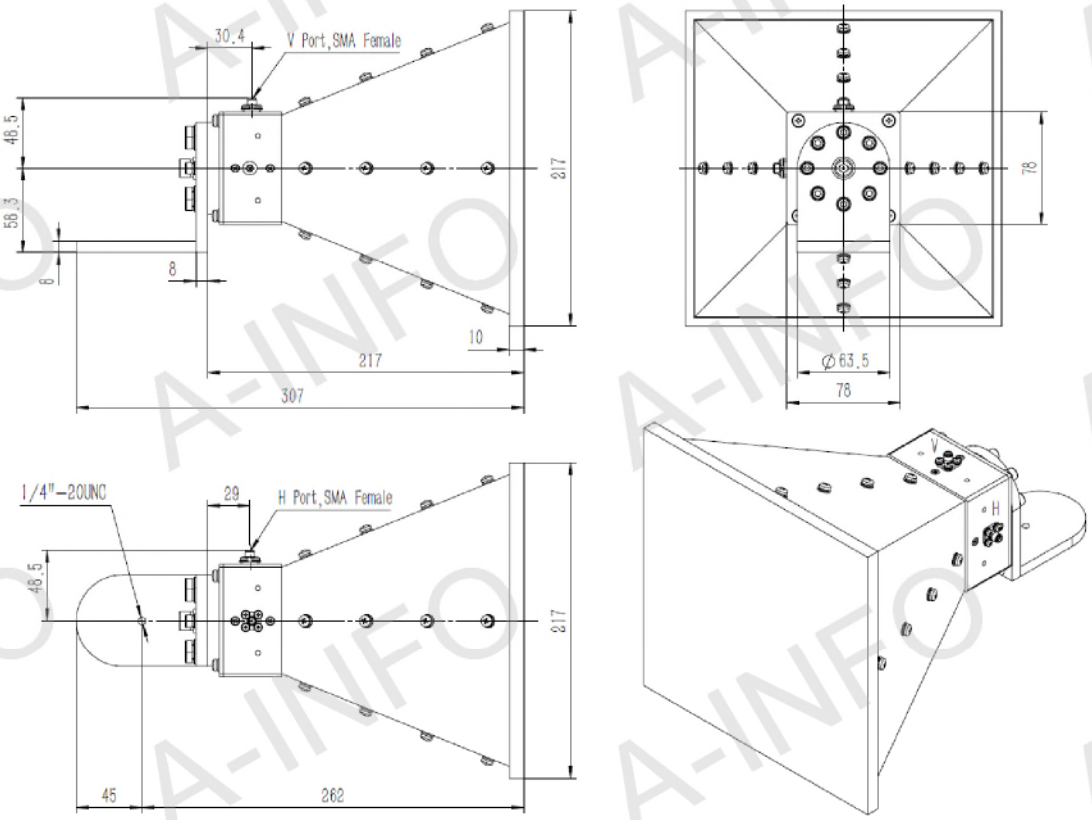
SMA Female Output with Radome

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



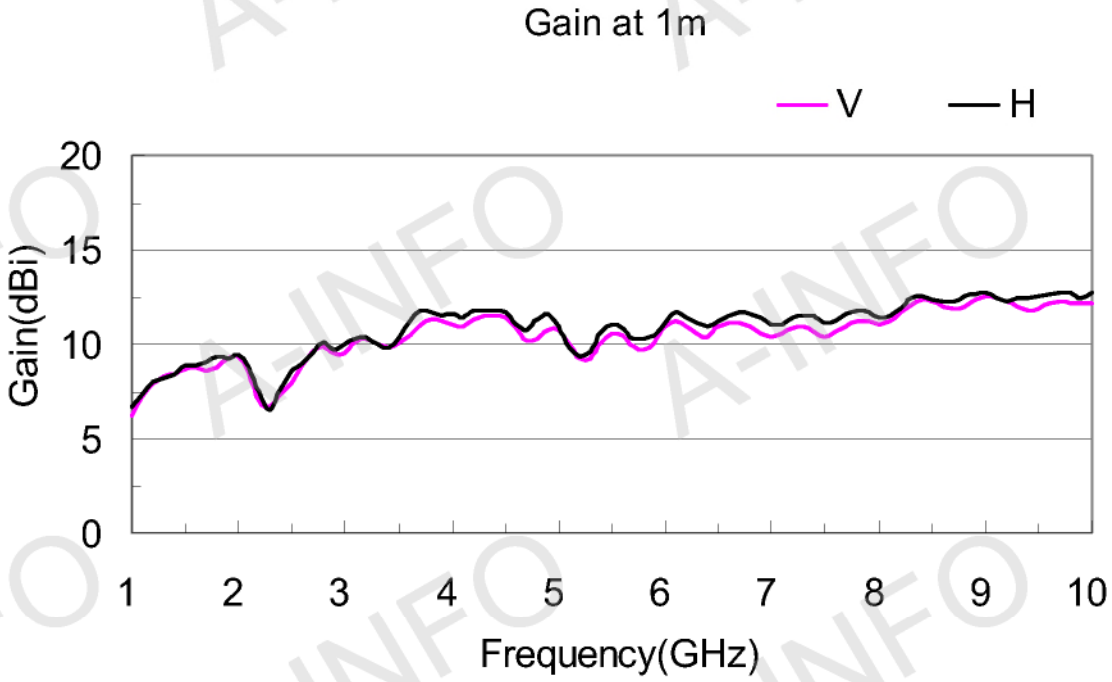
SMA Female Output with L type mounting bracket & Radome

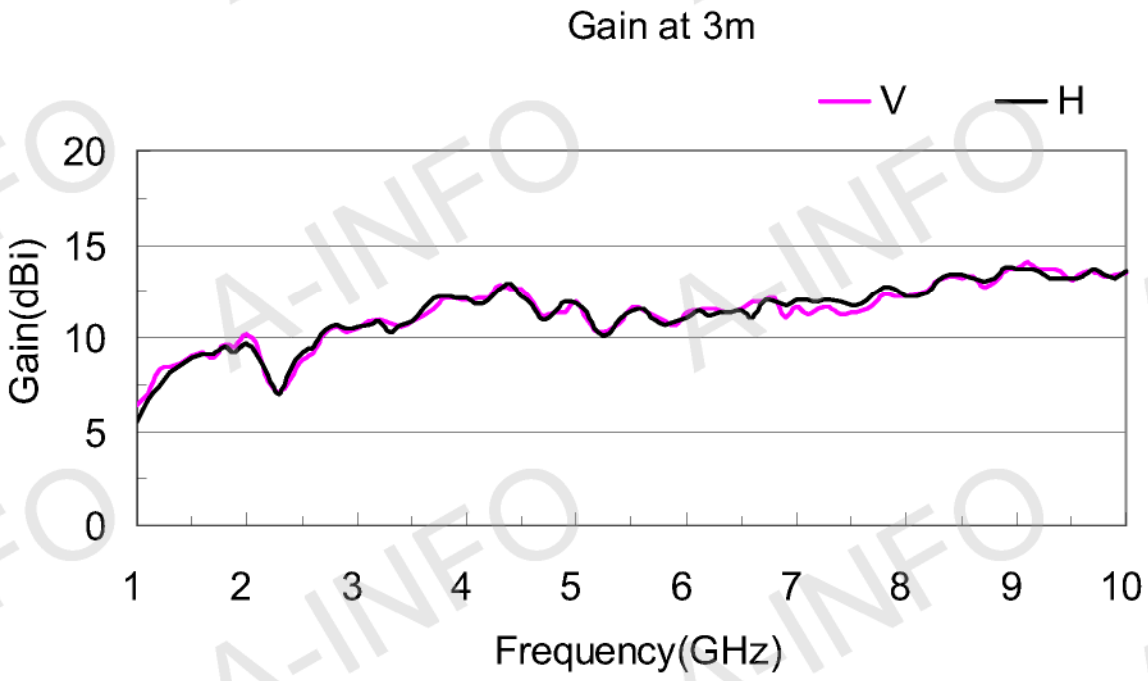
For N type Female output outline drawing, please contact A-INFO.



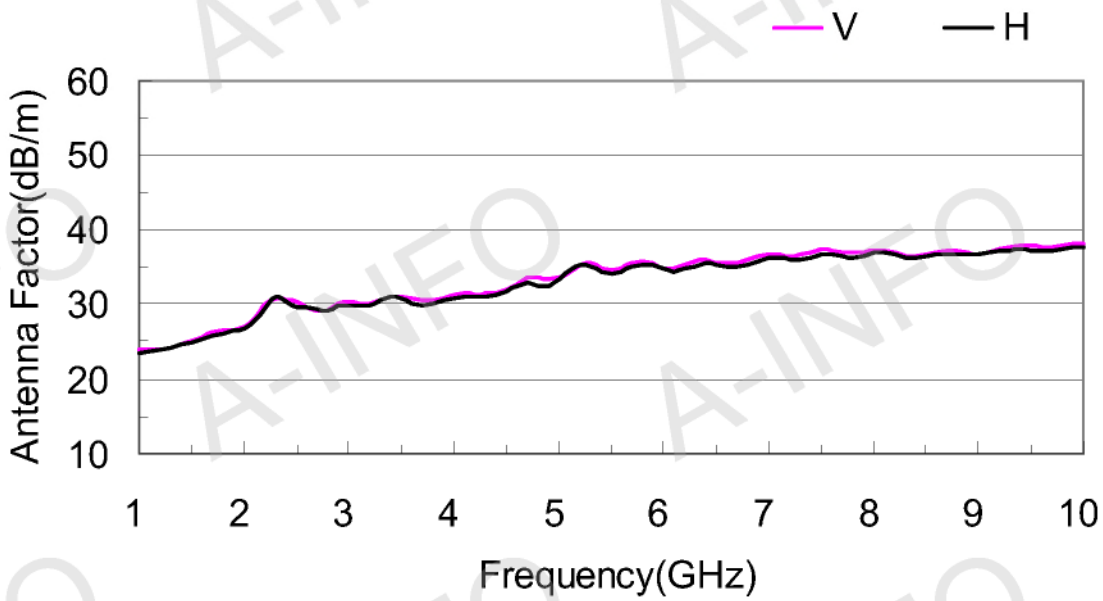
Test Results

1. Gain and Antenna Factor

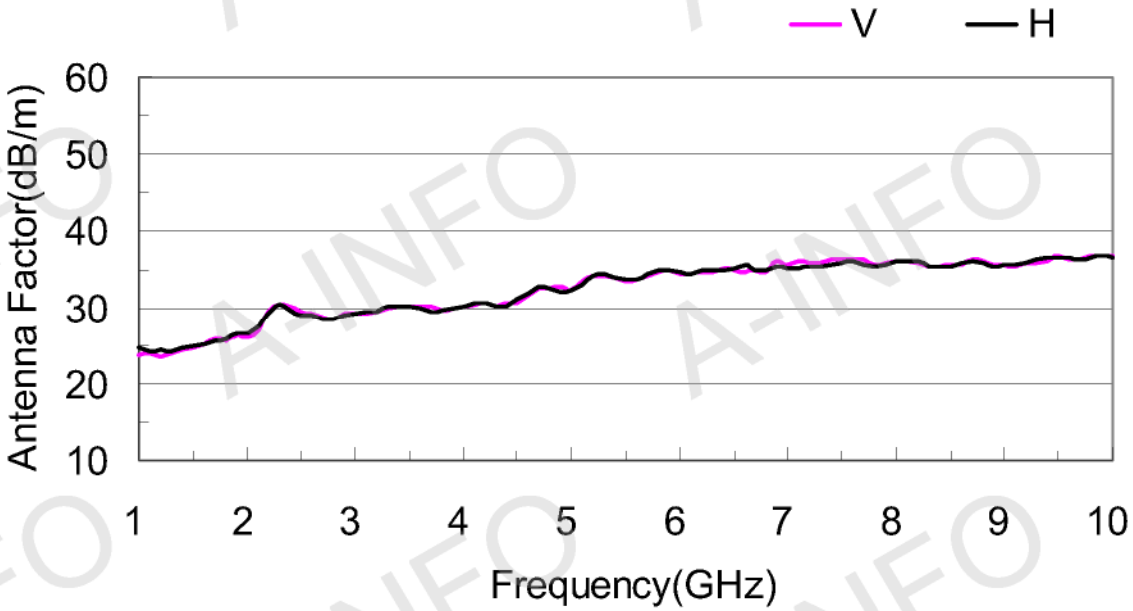




AF at 1m

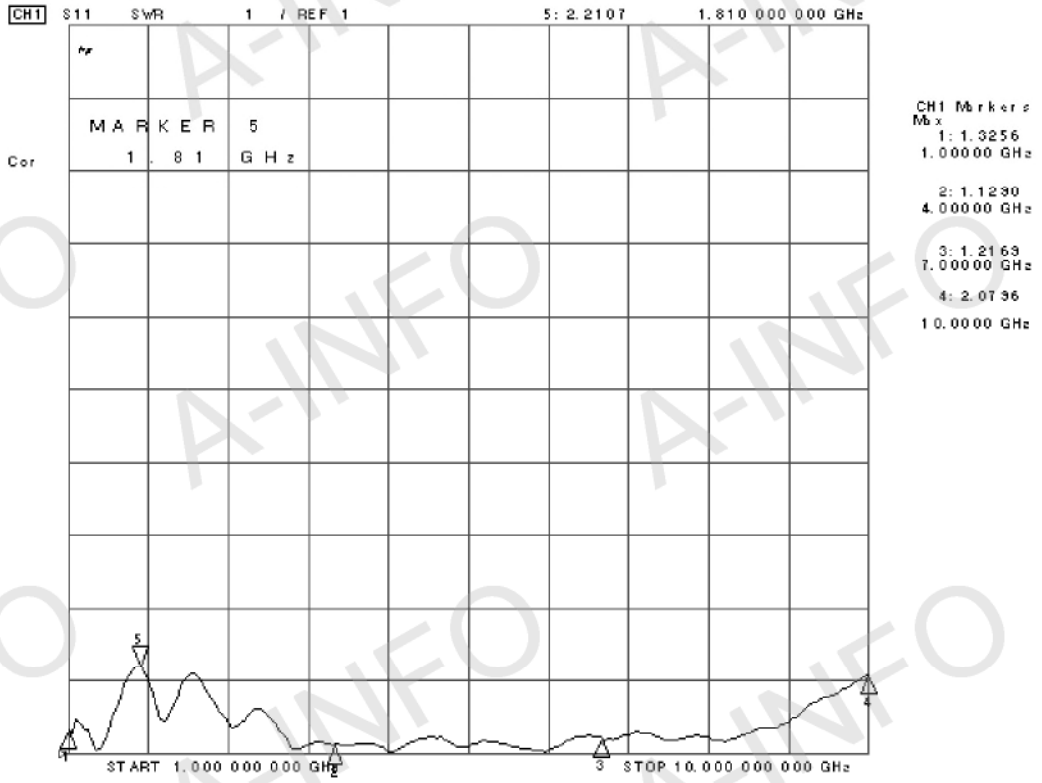


AF at 3m

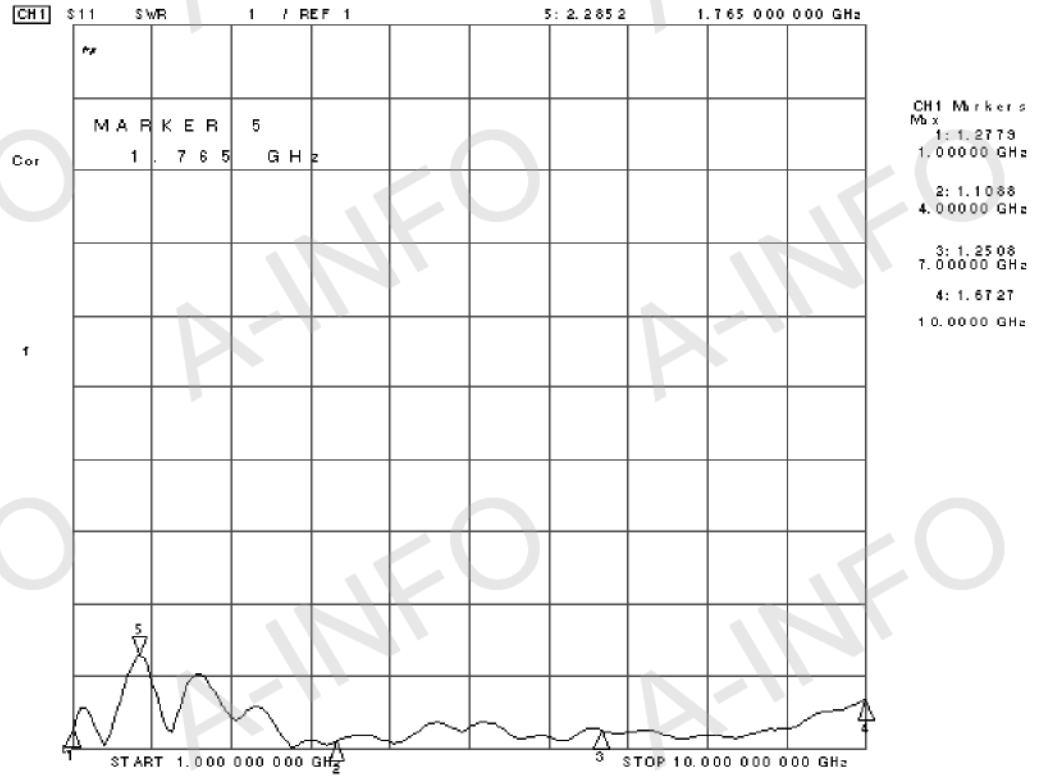


2. VSWR

Port-V

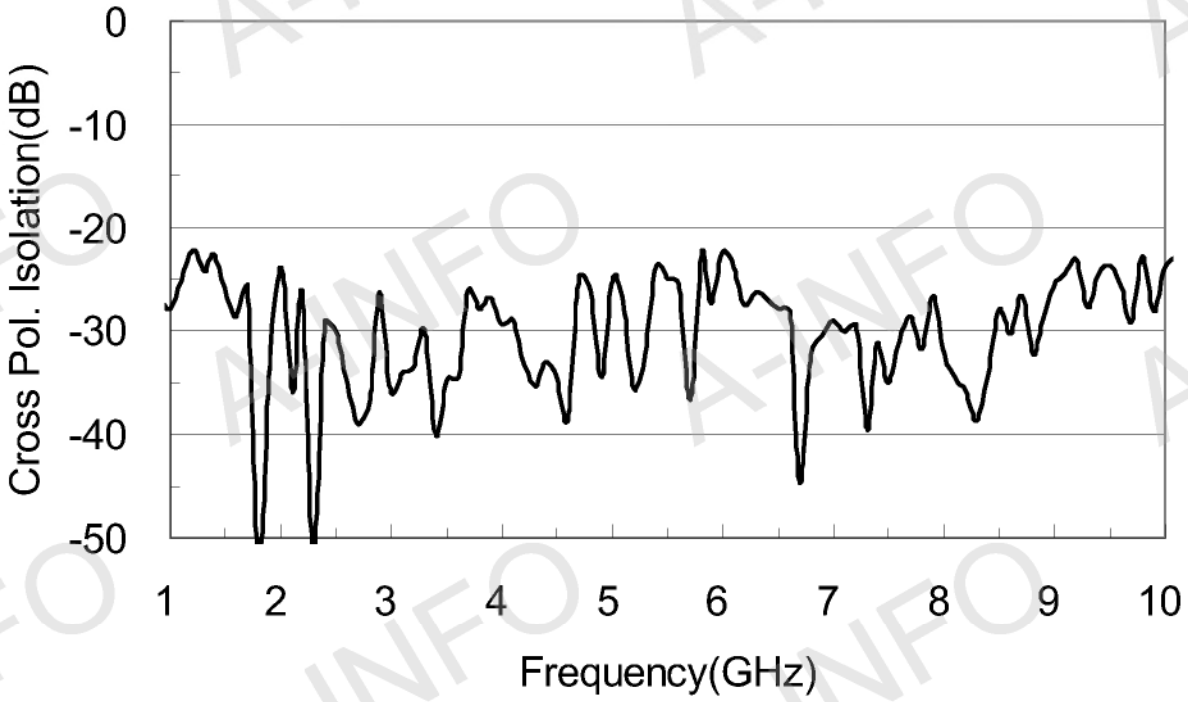


Port-H

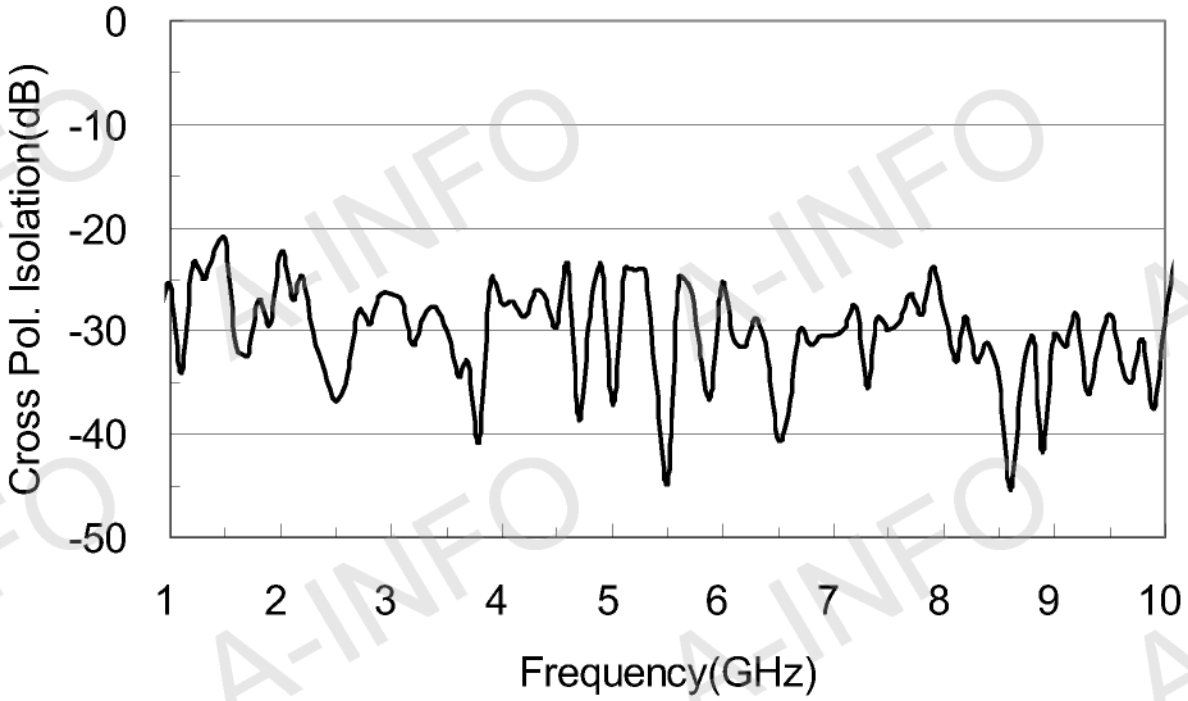


3. Cross Polarization Isolation

Port-V



Port-H



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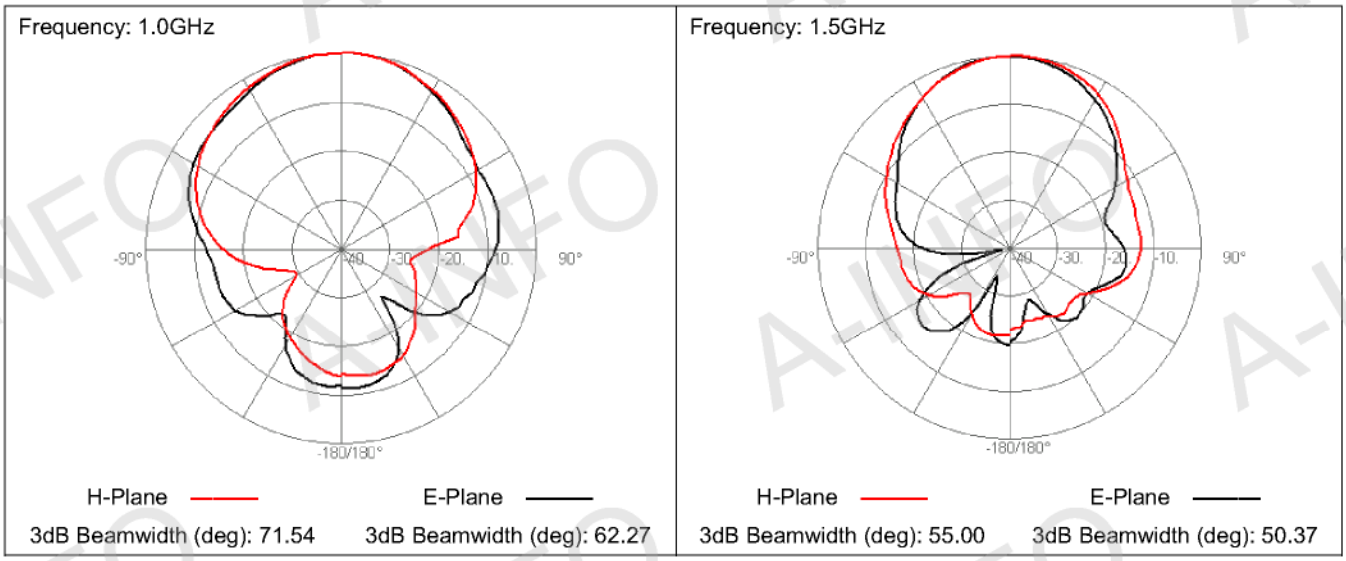
4. Port to Port Isolation

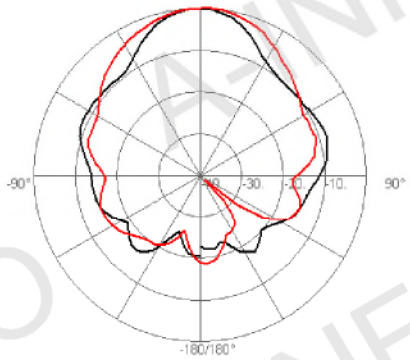
5. Pattern



A-INFO

LB-SJ-10100
1 - 10GHz Dual Polarization Horn Antenna

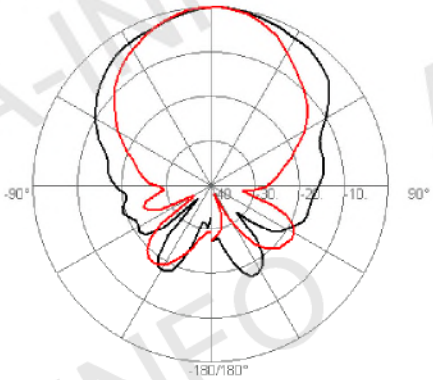
Frequency: 2.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 50.46 3dB Beamwidth (deg): 34.13

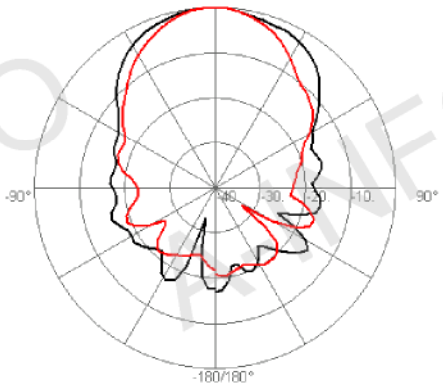
Frequency: 2.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 44.75 3dB Beamwidth (deg): 68.03

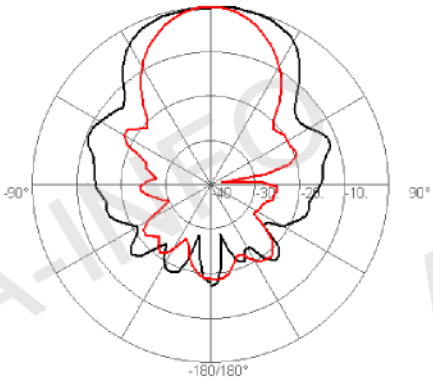
Frequency: 3.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 39.25 3dB Beamwidth (deg): 59.64

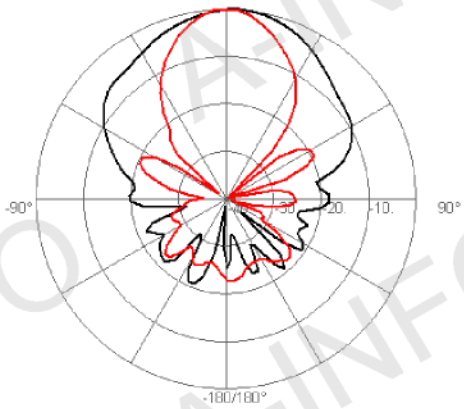
Frequency: 3.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 33.20 3dB Beamwidth (deg): 58.50

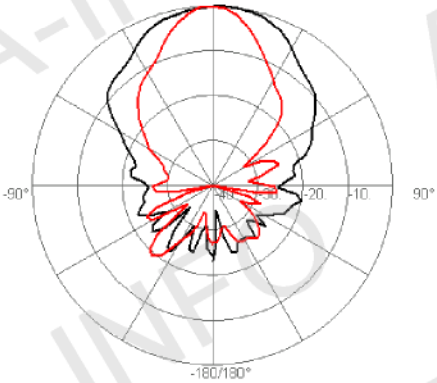
Frequency: 4.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 26.23 3dB Beamwidth (deg): 48.61

Frequency:4.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 22.85 3dB Beamwidth (deg): 48.39

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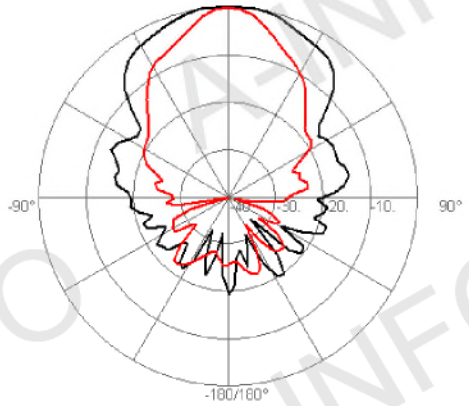
LB-SJ-10100
1 - 10GHz Dual Polarization Horn Antenna

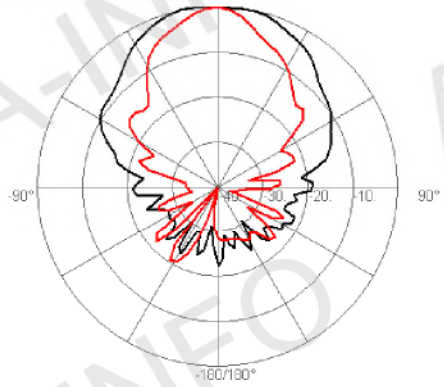
Frequency: 5.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 23.01 3dB Beamwidth (deg): 57.57

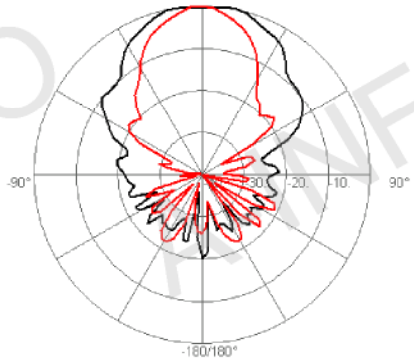
Frequency: 5.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 23.69 3dB Beamwidth (deg): 57.11

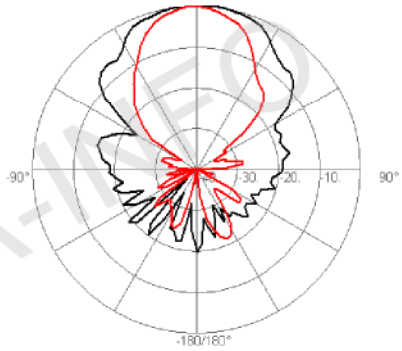
Frequency: 6.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 26.50 3dB Beamwidth (deg): 50.08

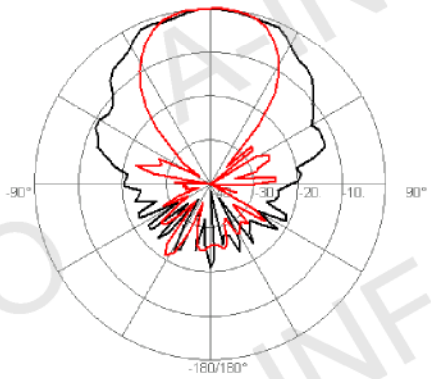
Frequency: 6.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 32.29 3dB Beamwidth (deg): 54.82

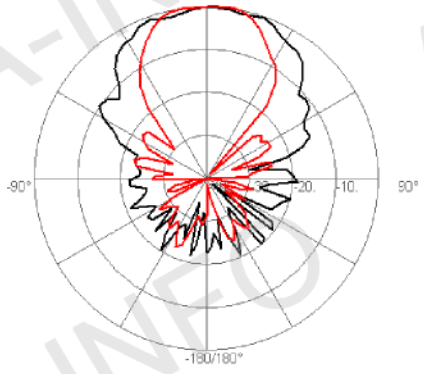
Frequency: 7.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 42.64 3dB Beamwidth (deg): 56.94

Frequency: 7.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 39.50 3dB Beamwidth (deg): 56.94

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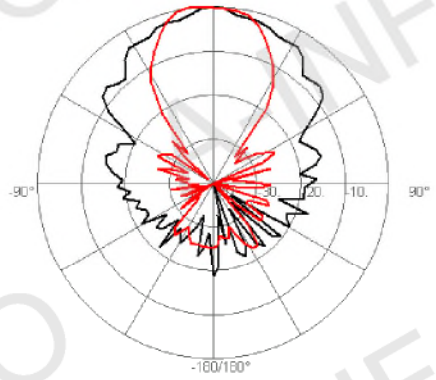
LB-SJ-10100

1 - 10GHz Dual Polarization Horn Antenna

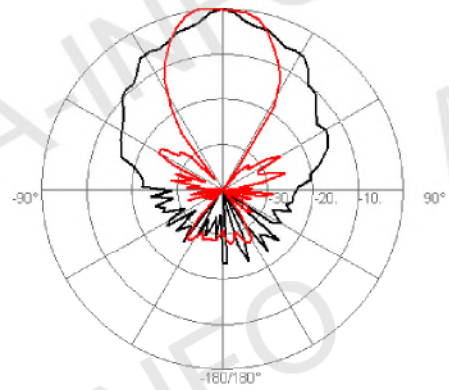
Frequency: 8.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 34.14 3dB Beamwidth (deg): 42.73

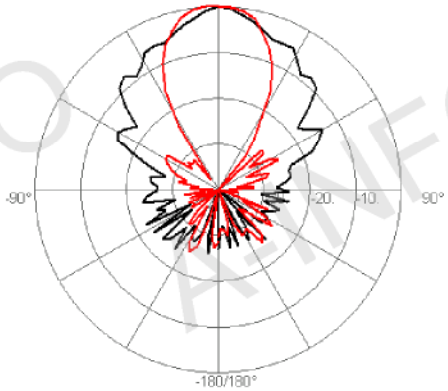
Frequency: 8.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 30.86 3dB Beamwidth (deg): 19.28

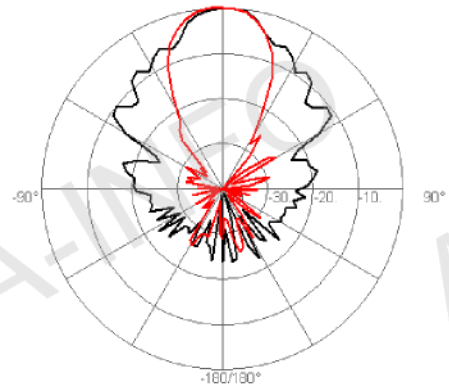
Frequency: 9.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 28.22 3dB Beamwidth (deg): 23.87

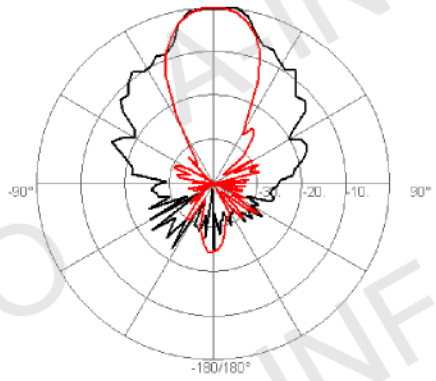
Frequency: 9.5GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 27.98 3dB Beamwidth (deg): 25.96

Frequency: 10.0GHz



H-Plane ——— E-Plane ———

3dB Beamwidth (deg): 24.94 3dB Beamwidth (deg): 26.09

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