A-INFO

LB-SJ-40400
4.0 – 40.0GHz Dual Polarization Horn Antenna

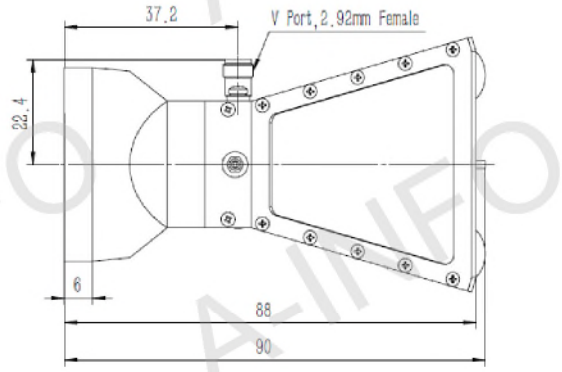
Technical Specification

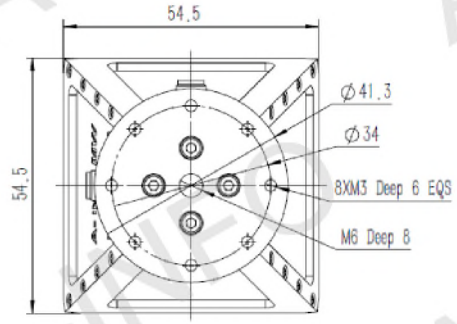
Frequency Range(GHz)	4.0 - 40.0
Gain(dBi)	12 Typ.
Polarization	Dual Pol.
3dB Beamwidth(deg)	94 - 18
Cross Pol. Isolation(dB)	30 Typ.
	20 Min.
Port to Port Isolation(dB)	30 Typ.
	20 Min.
VSWR	1.5:1 Typ.
	2.5:1 Max.
Output	2.92mm(K)-Female
	or 2.4mm-Female
Power Handling(W)	2.92mm(K)-Female: 20 Max. CW
	2.4mm-Female: 10 Max. CW
Material	Al
Size(mm)	54.5 x 54.5 x 90
Net Weight(Kg)	0.15 Around

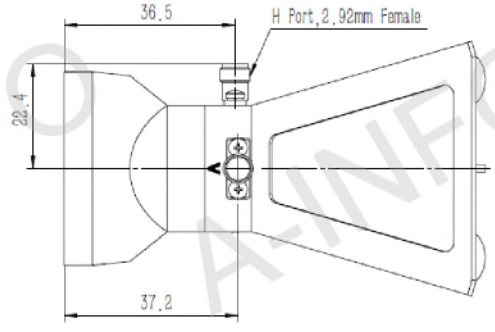
Outline Drawing (Size: mm)

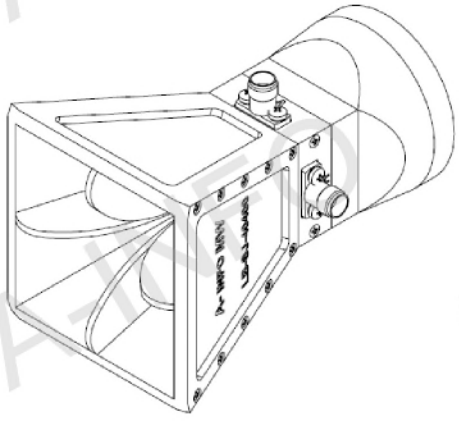
2.92mm(K)-Female Output

For 2.4mm-Female output outline drawing, please contact A-INFO.



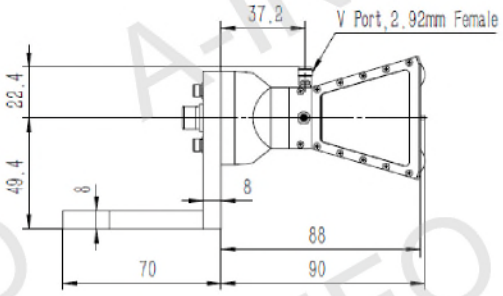


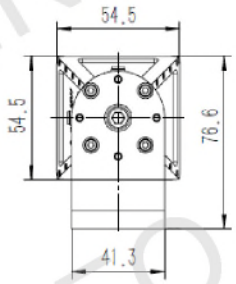


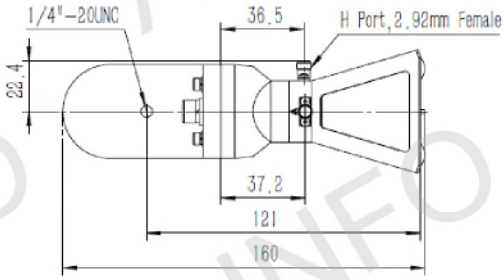


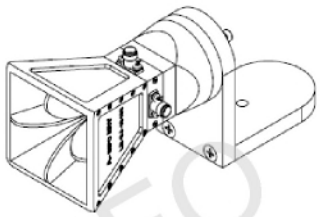
2.92mm(K)-Female Output with L type mounting bracket

For 2.4mm-Female output outline drawing, please contact A-INFO.



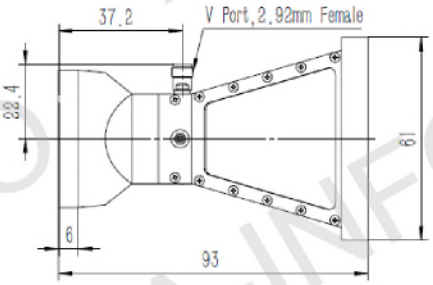


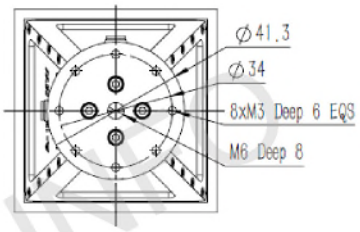


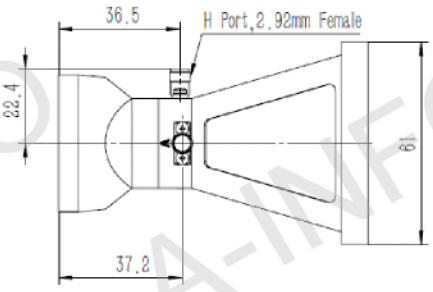


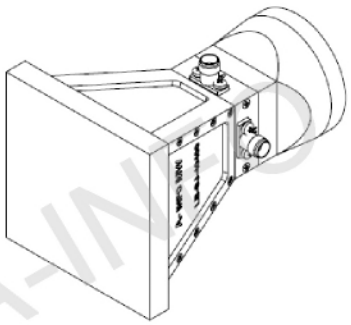
2.92mm(K)-Female Output with Radome

For 2.4mm-Female output outline drawing, please contact A-INFO.



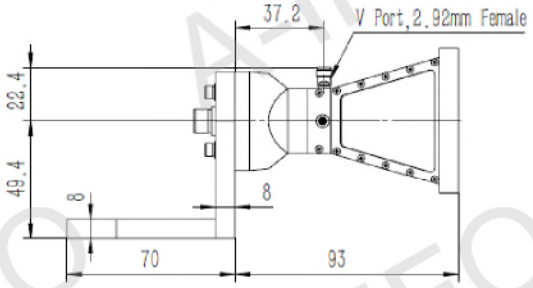


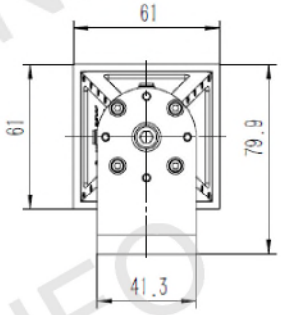


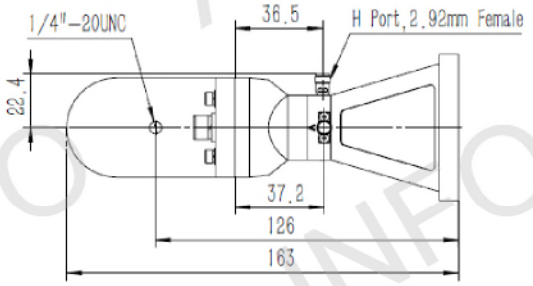


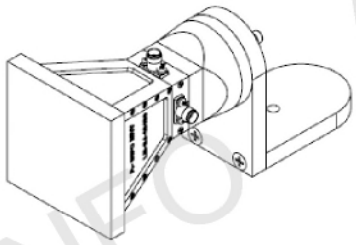
2.92mm(K)-Female Output with L type mounting bracket & Radome

For 2.4mm-Female output outline drawing, please contact A-INFO.



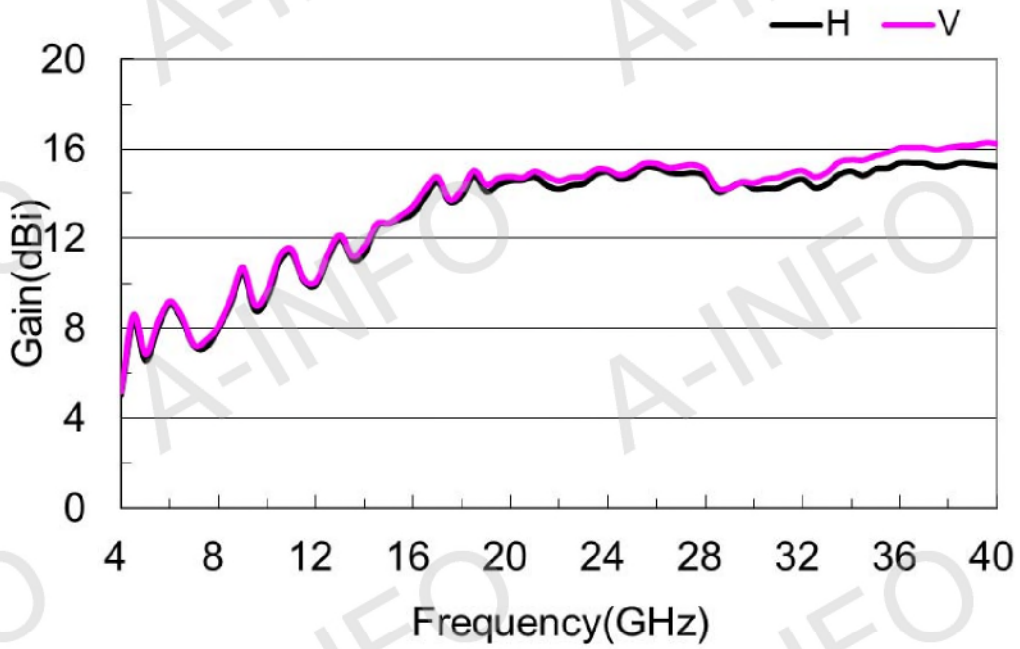


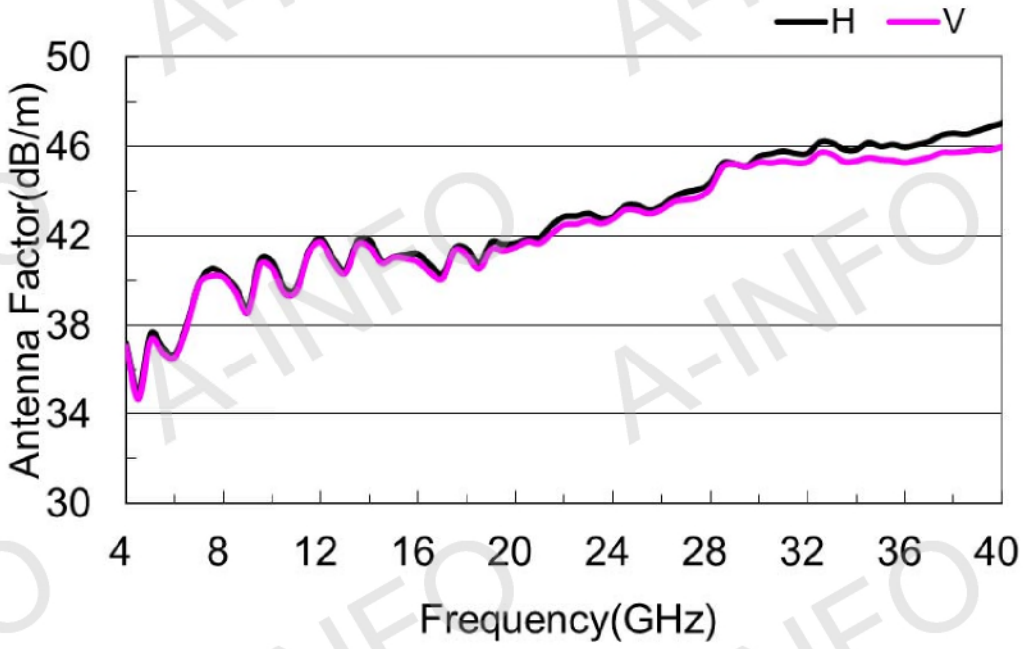




Test Results

1. Gain and Antenna Factor





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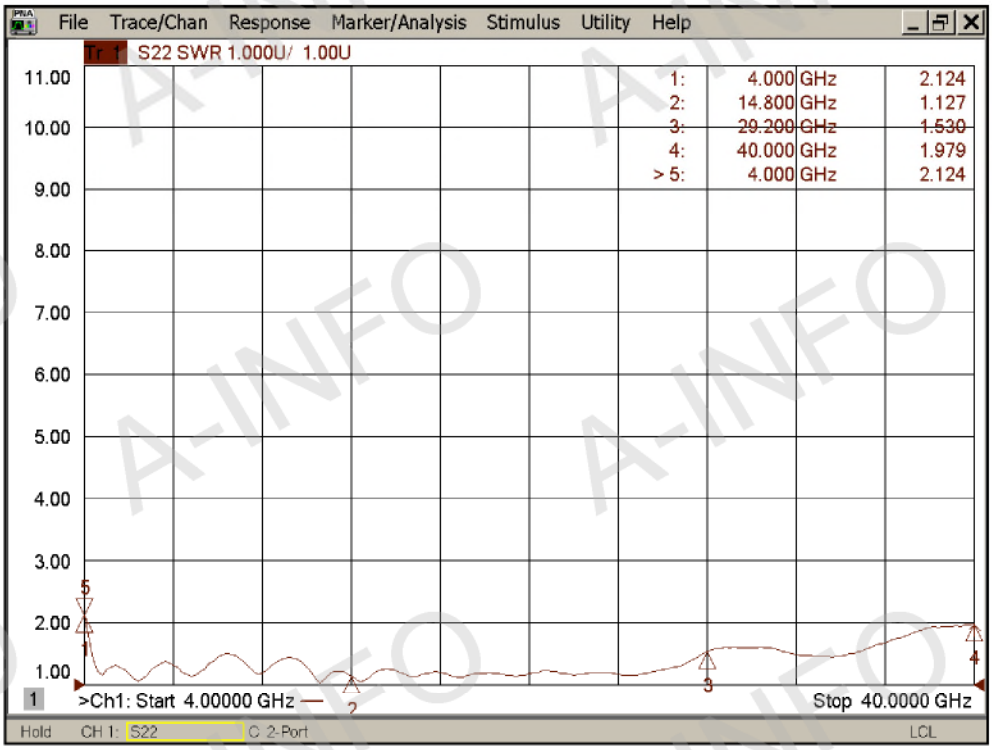
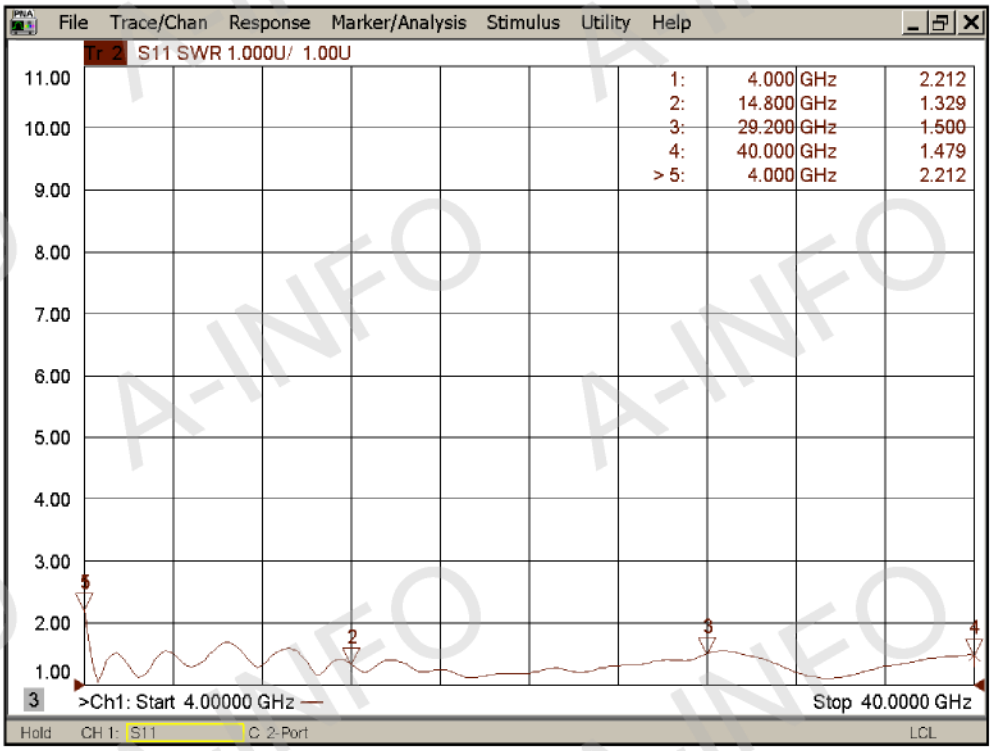
2. VSWR

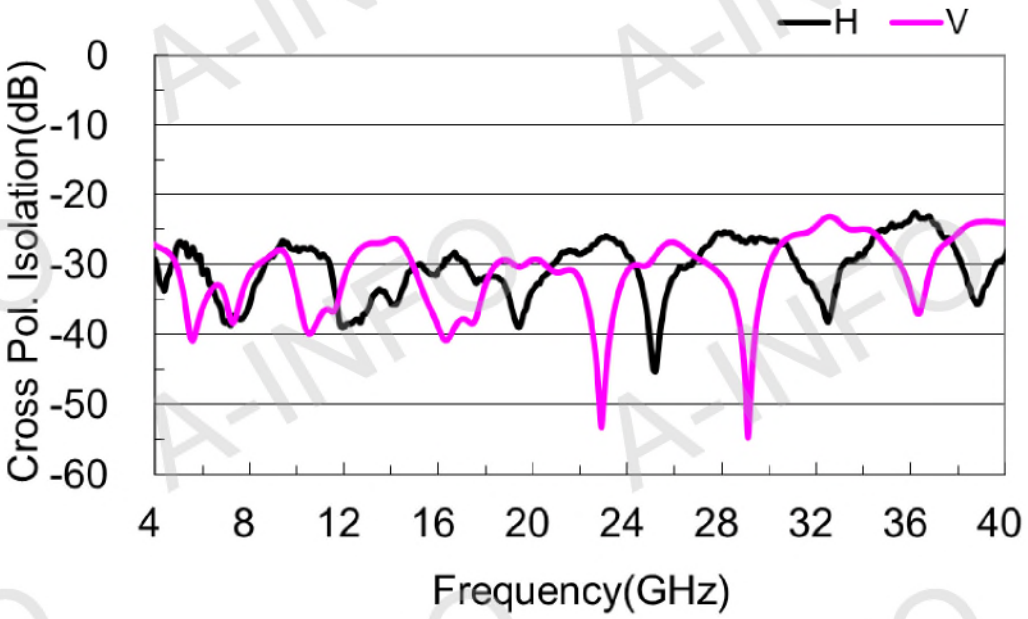
Port-V



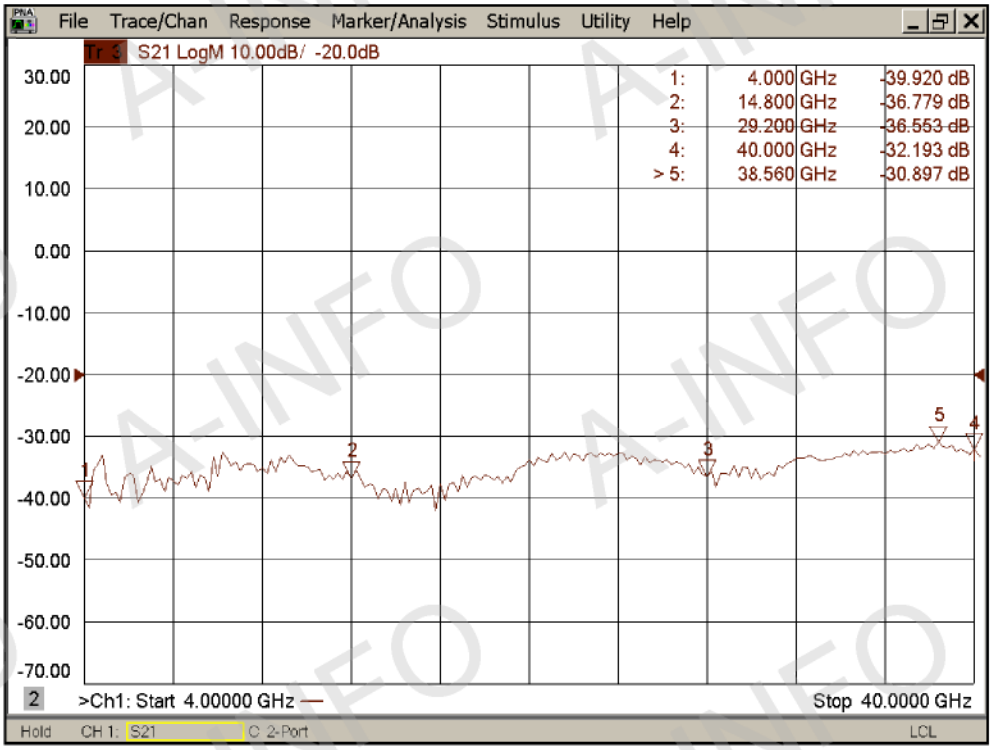
Port-H



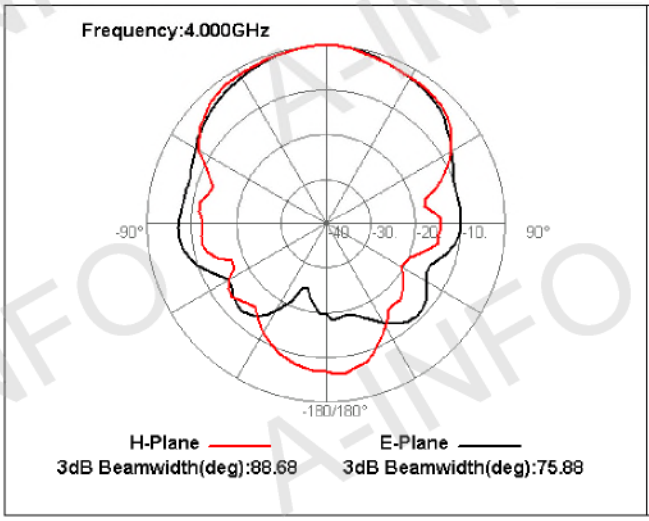
3. Cross Polarization Isolation

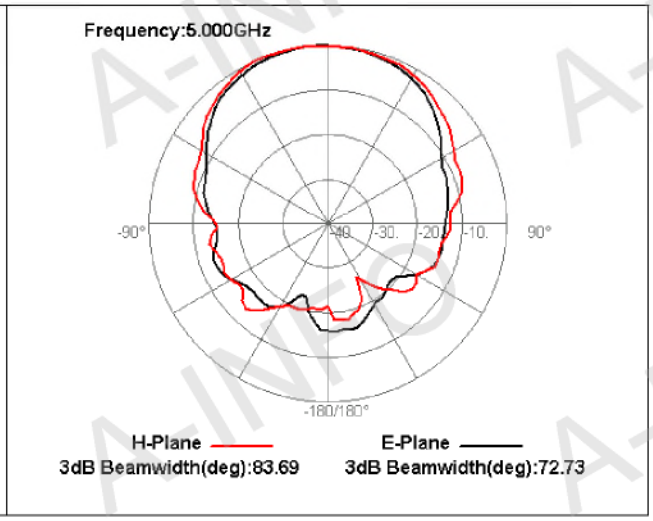


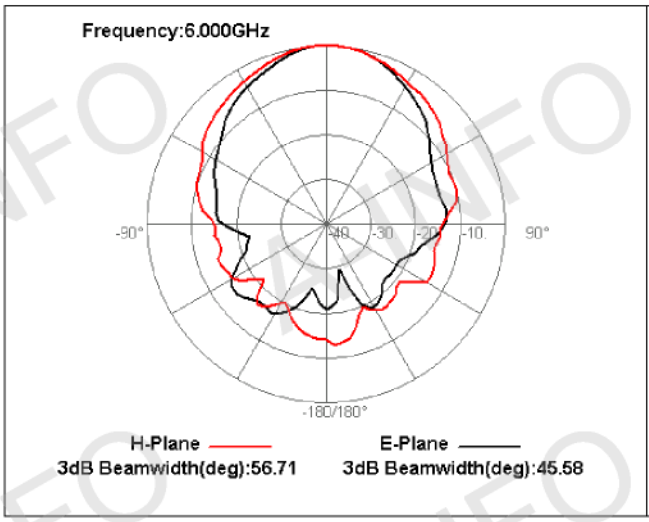
4. Port to Port Isolation

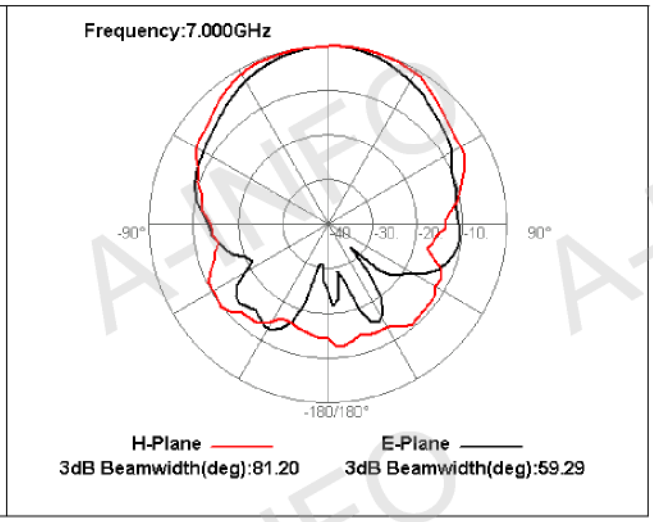


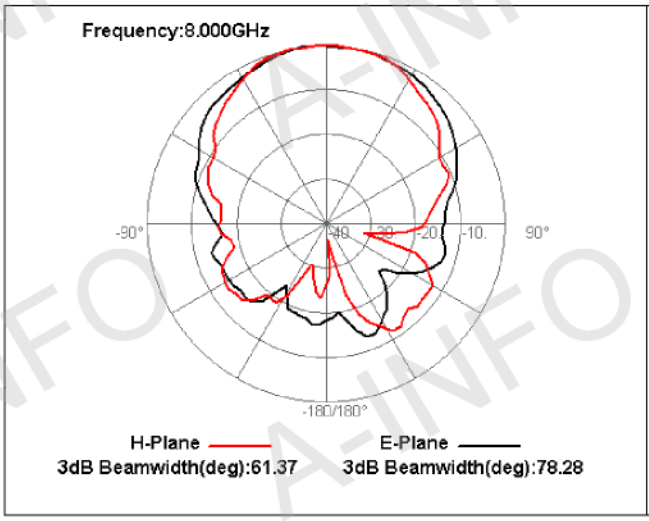
5. Pattern

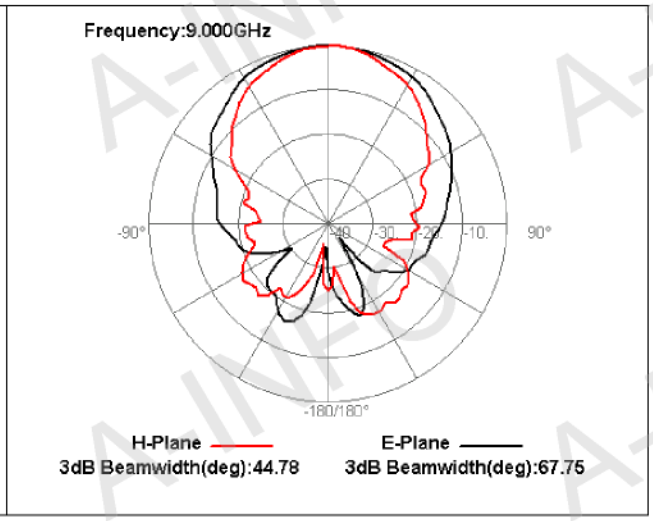

Frequency:4.000GHz
-90°
90°
-40.
-30.
-20.
-10.
-180/180°
H-Plane
3dB Beamwidth(deg):88.68
E-Plane
3dB Beamwidth(deg):75.88

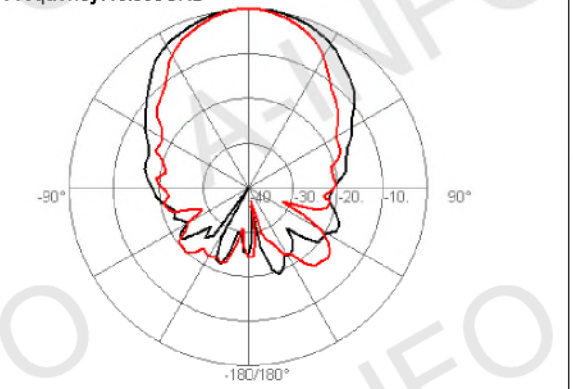

Frequency:5.000GHz
-90°
90°
-40.
-30.
-20.
-10.
-180/180°
H-Plane
3dB Beamwidth(deg):83.69
E-Plane
3dB Beamwidth(deg):72.73


Frequency:6.000GHz
-90°
90°
-40.
-30.
-20.
-10.
-180/180°
H-Plane
3dB Beamwidth(deg):56.71
E-Plane
3dB Beamwidth(deg):45.58


Frequency:7.000GHz
-90°
90°
-40.
-30.
-20.
-10.
-180/180°
H-Plane
3dB Beamwidth(deg):81.20
E-Plane
3dB Beamwidth(deg):59.29

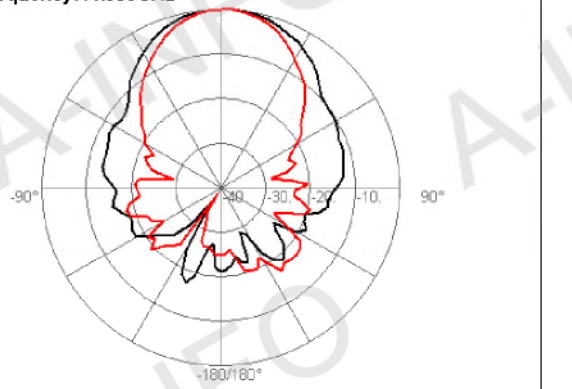

Frequency:8.000GHz
-90°
90°
-40.
-30.
-20.
-10.
-180/180°
H-Plane
3dB Beamwidth(deg):61.37
E-Plane
3dB Beamwidth(deg):78.28


Frequency:9.000GHz
-90°
90°
-40.
-30.
-20.
-10.
-180/180°
H-Plane
3dB Beamwidth(deg):44.78
E-Plane
3dB Beamwidth(deg):67.75



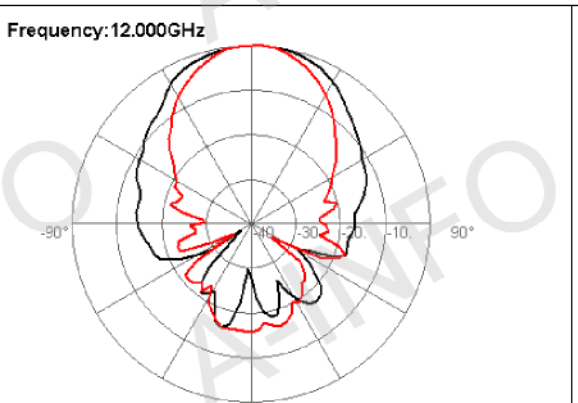
H-Plane
3dB Beamwidth(deg):41.72

E-Plane
3dB Beamwidth(deg):58.72



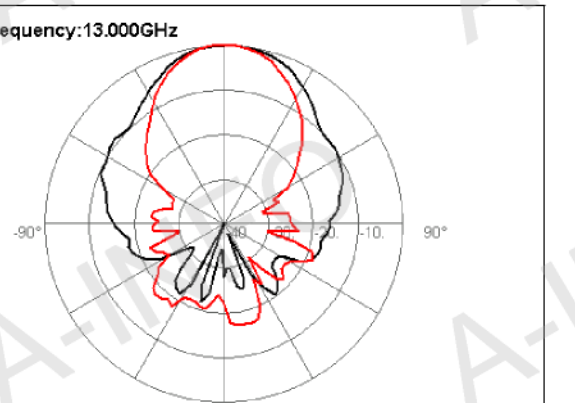
H-Plane
3dB Beamwidth(deg):37.38

E-Plane
3dB Beamwidth(deg):49.37



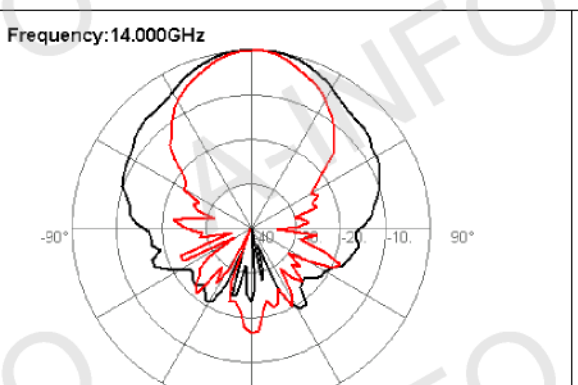
H-Plane
3dB Beamwidth(deg):37.60

E-Plane
3dB Beamwidth(deg):55.44



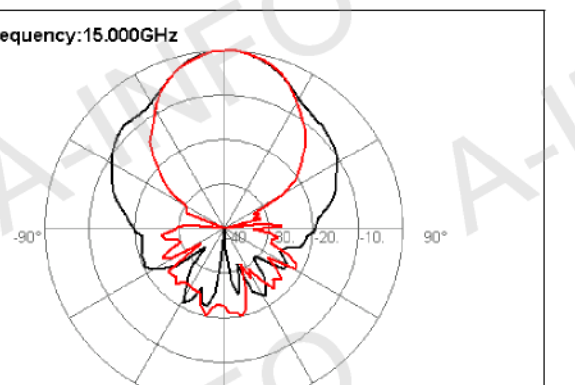
H-Plane
3dB Beamwidth(deg):35.83

E-Plane
3dB Beamwidth(deg):45.20



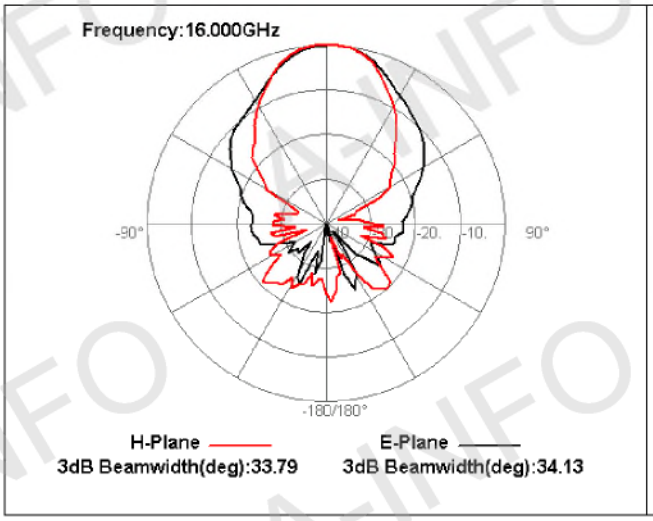
H-Plane
3dB Beamwidth(deg):34.08

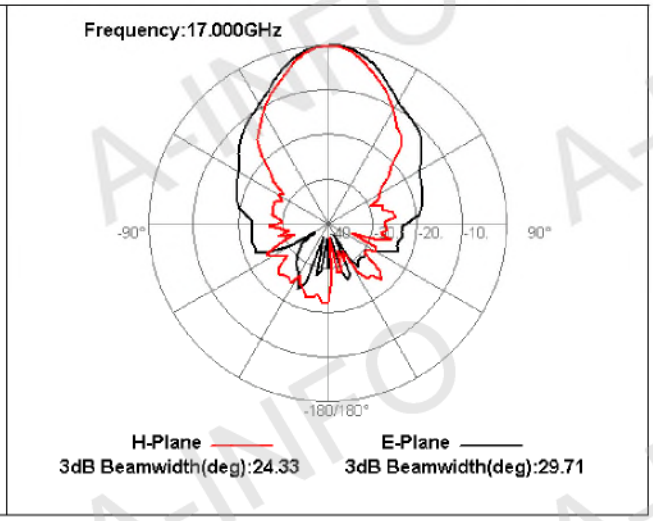
E-Plane
3dB Beamwidth(deg):51.40

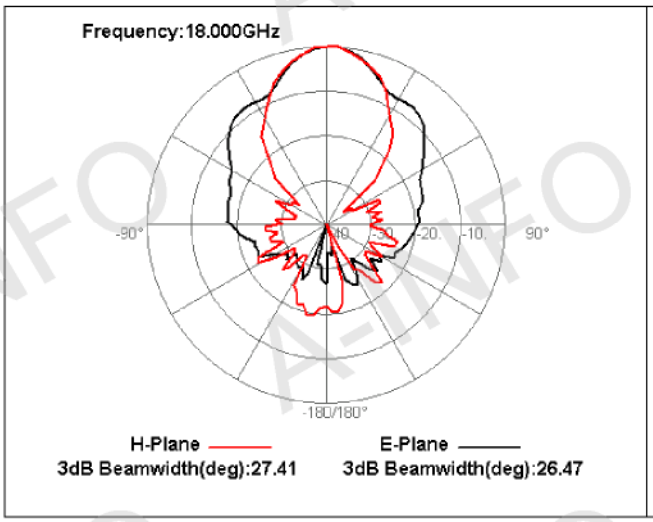


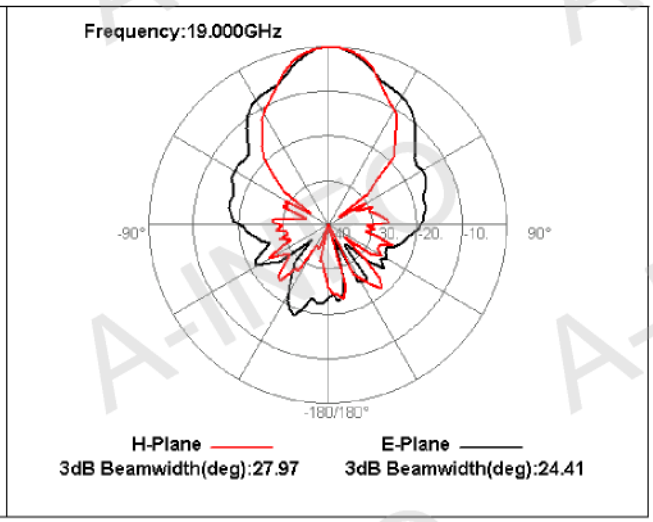
H-Plane
3dB Beamwidth(deg):36.88

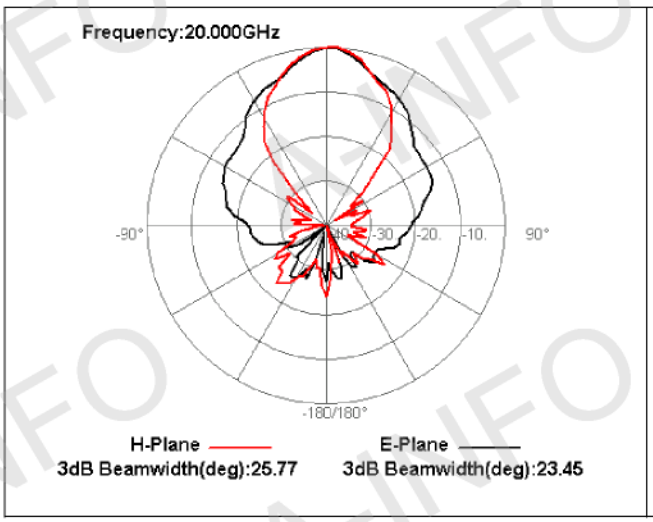
E-Plane
3dB Beamwidth(deg):36.08

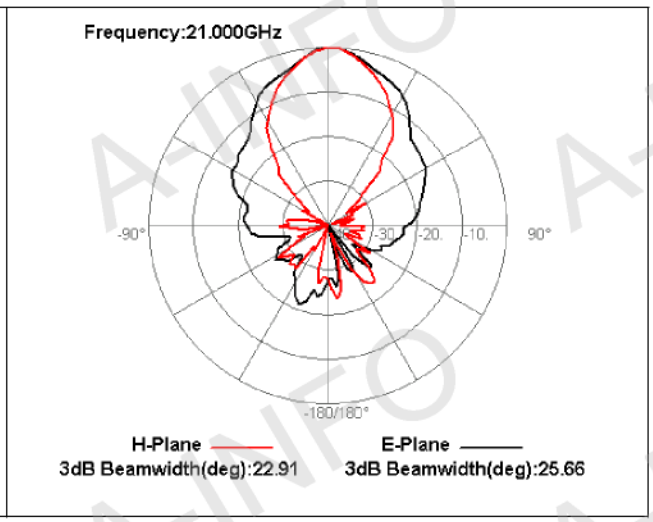

Frequency:16.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):33.79
E-Plane
3dB Beamwidth(deg):34.13

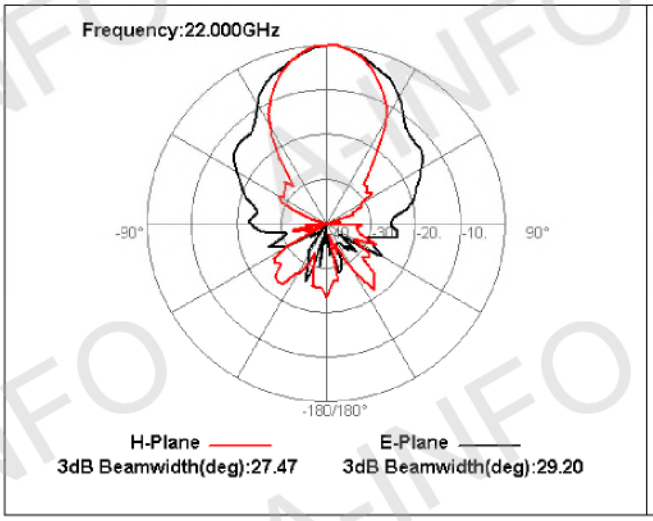

Frequency:17.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):24.33
E-Plane
3dB Beamwidth(deg):29.71


Frequency:18.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):27.41
E-Plane
3dB Beamwidth(deg):26.47


Frequency:19.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):27.97
E-Plane
3dB Beamwidth(deg):24.41

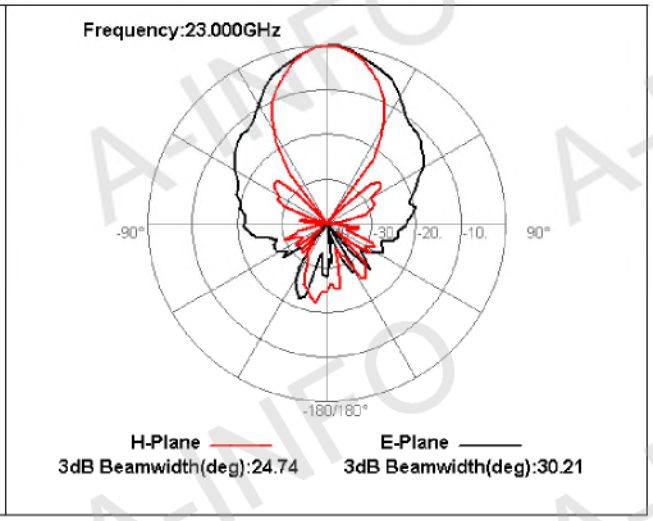

Frequency:20.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):25.77
E-Plane
3dB Beamwidth(deg):23.45


Frequency:21.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):22.91
E-Plane
3dB Beamwidth(deg):25.66



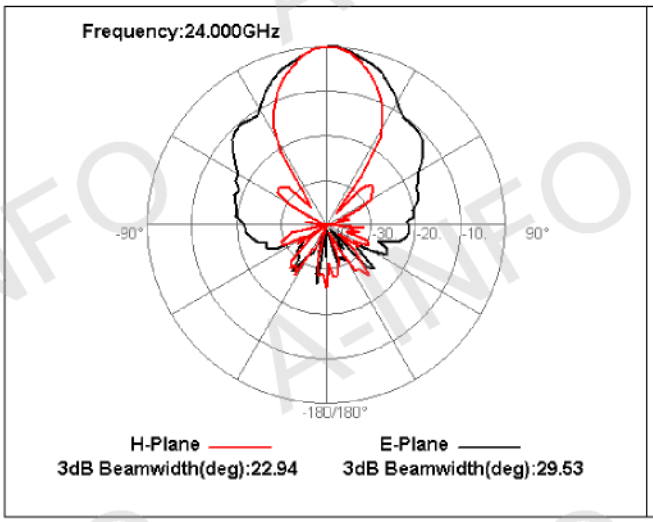
H-Plane
3dB Beamwidth(deg):27.47

E-Plane
3dB Beamwidth(deg):29.20



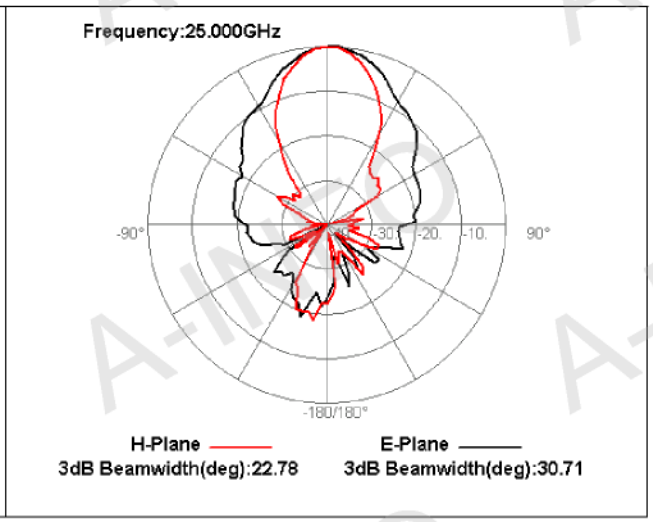
H-Plane
3dB Beamwidth(deg):24.74

E-Plane
3dB Beamwidth(deg):30.21



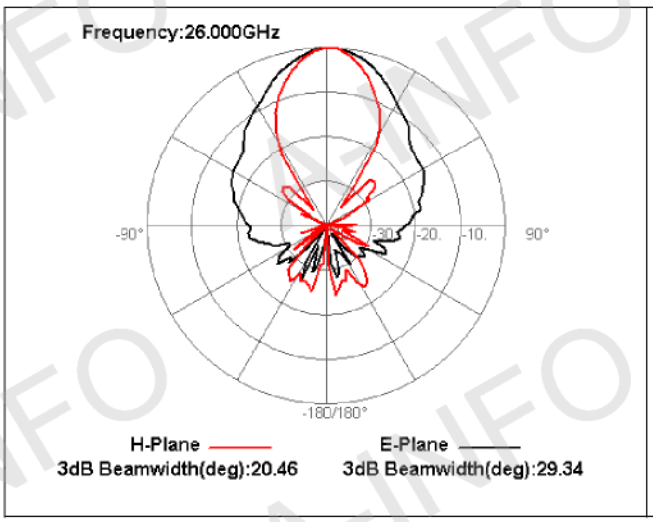
H-Plane
3dB Beamwidth(deg):22.94

E-Plane
3dB Beamwidth(deg):29.53



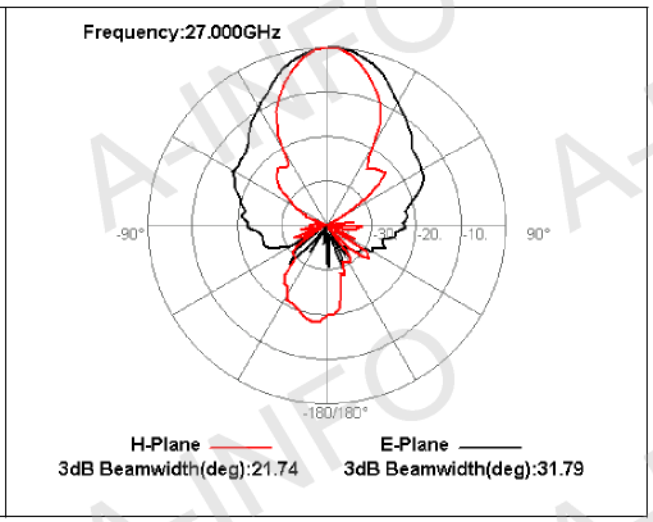
H-Plane
3dB Beamwidth(deg):22.78

E-Plane
3dB Beamwidth(deg):30.71



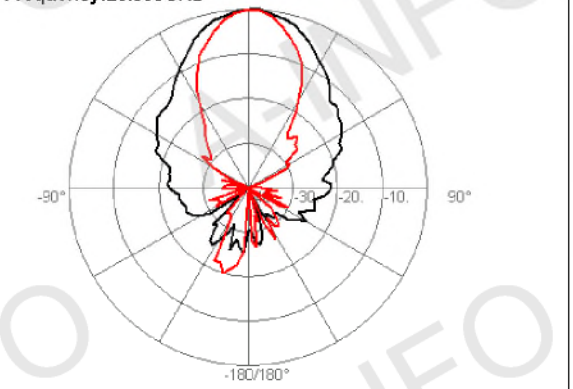
H-Plane
3dB Beamwidth(deg):20.46

E-Plane
3dB Beamwidth(deg):29.34



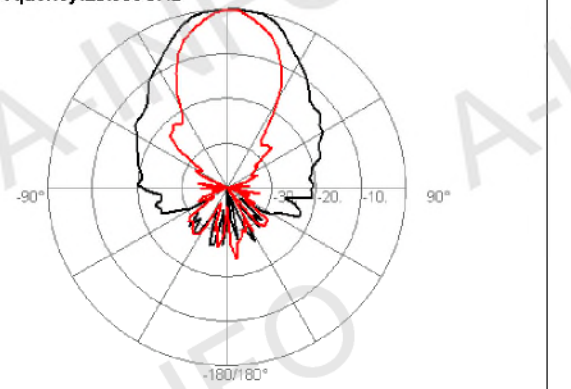
H-Plane
3dB Beamwidth(deg):21.74

E-Plane
3dB Beamwidth(deg):31.79



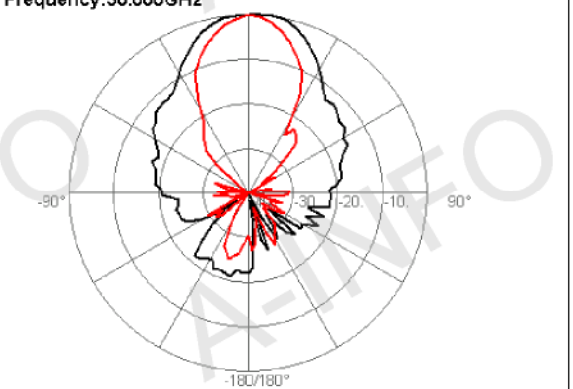
H-Plane
3dB Beamwidth(deg):21.24

E-Plane
3dB Beamwidth(deg):33.67



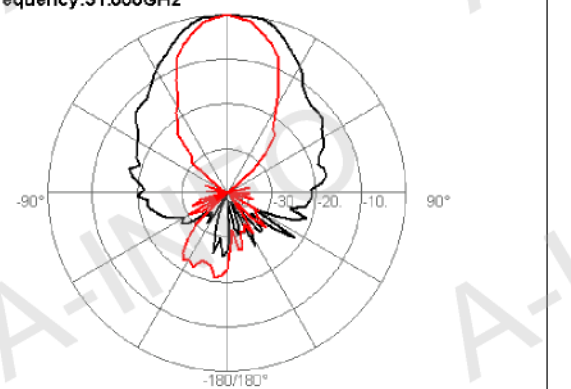
H-Plane
3dB Beamwidth(deg):21.78

E-Plane
3dB Beamwidth(deg):37.00



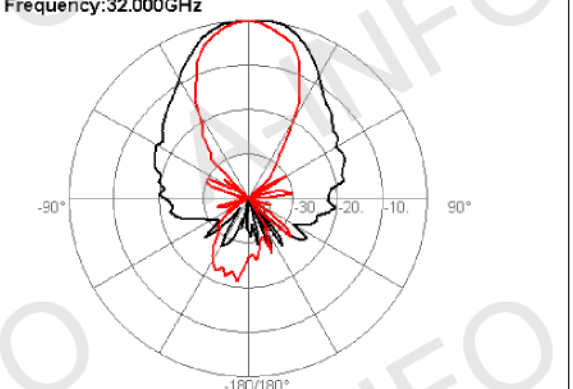
H-Plane
3dB Beamwidth(deg):21.22

E-Plane
3dB Beamwidth(deg):36.82



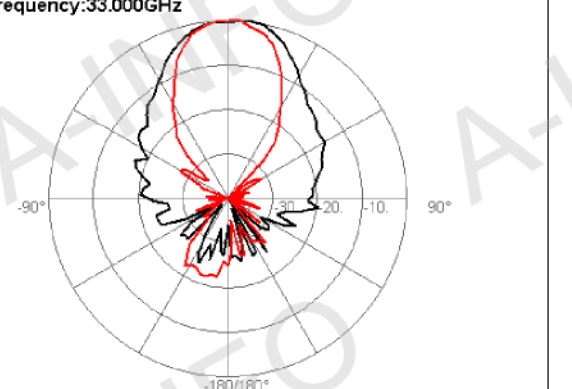
H-Plane
3dB Beamwidth(deg):22.87

E-Plane
3dB Beamwidth(deg):36.47



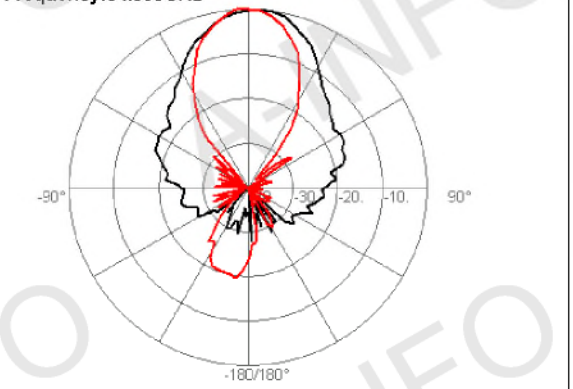
H-Plane
3dB Beamwidth(deg):25.72

E-Plane
3dB Beamwidth(deg):36.79

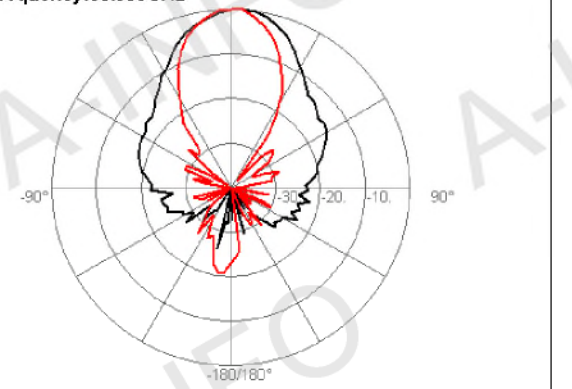


H-Plane
3dB Beamwidth(deg):27.11

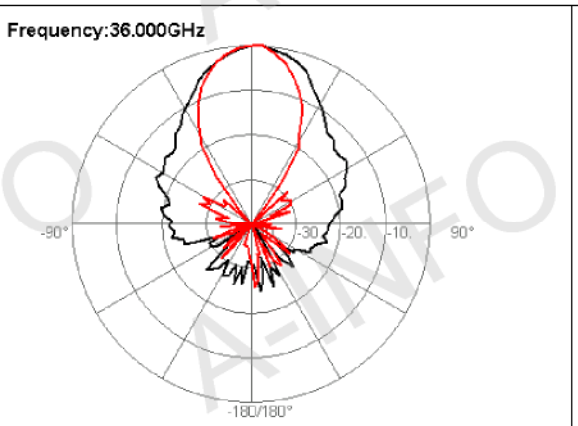
E-Plane
3dB Beamwidth(deg):35.38



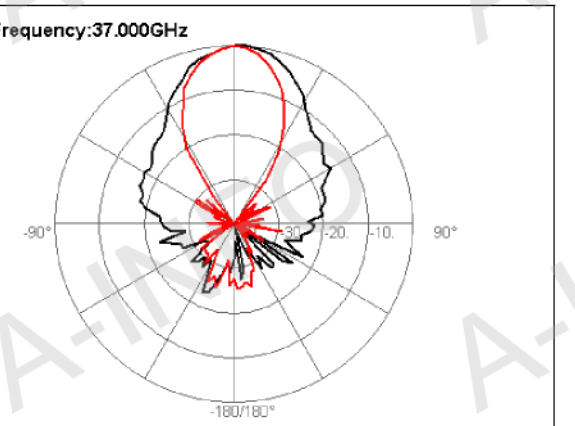
H-Plane ——— E-Plane ———
3dB Beamwidth(deg):24.44 3dB Beamwidth(deg):30.79



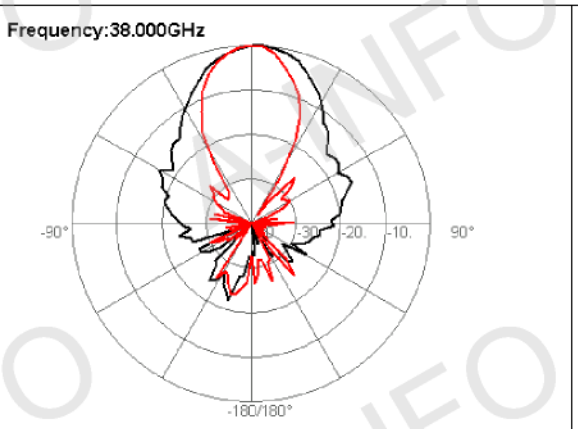
H-Plane ——— E-Plane ———
3dB Beamwidth(deg):23.77 3dB Beamwidth(deg):31.16



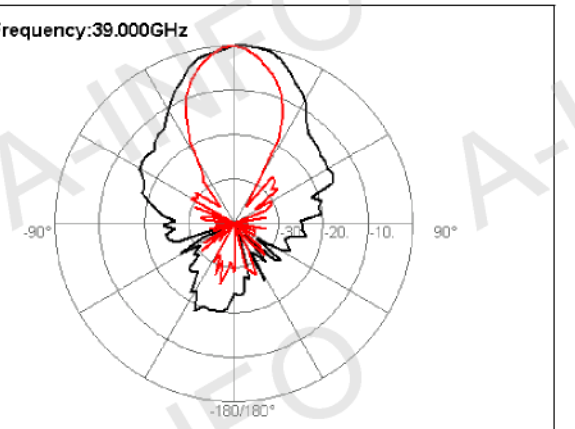
H-Plane ——— E-Plane ———
3dB Beamwidth(deg):23.26 3dB Beamwidth(deg):30.18



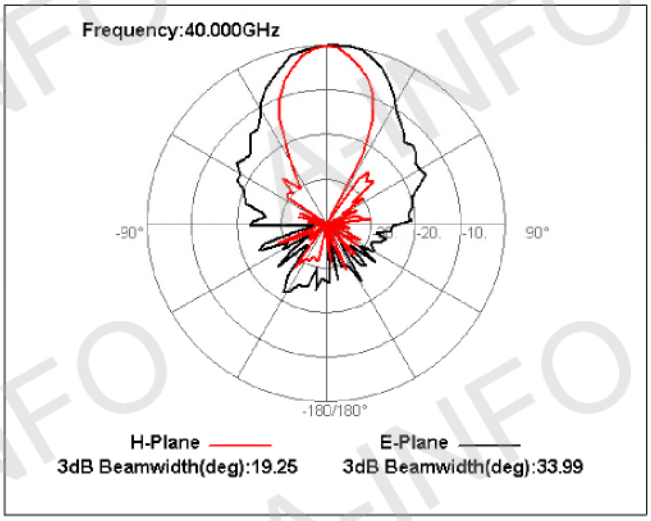
H-Plane ——— E-Plane ———
3dB Beamwidth(deg):22.12 3dB Beamwidth(deg):32.05



H-Plane ——— E-Plane ———
3dB Beamwidth(deg):21.55 3dB Beamwidth(deg):31.44



H-Plane ——— E-Plane ———
3dB Beamwidth(deg):19.50 3dB Beamwidth(deg):32.49


Frequency:40.000GHz
-90°
-20.
-10.
90°
-180/180°
H-Plane
3dB Beamwidth(deg):19.25
E-Plane
3dB Beamwidth(deg):33.99