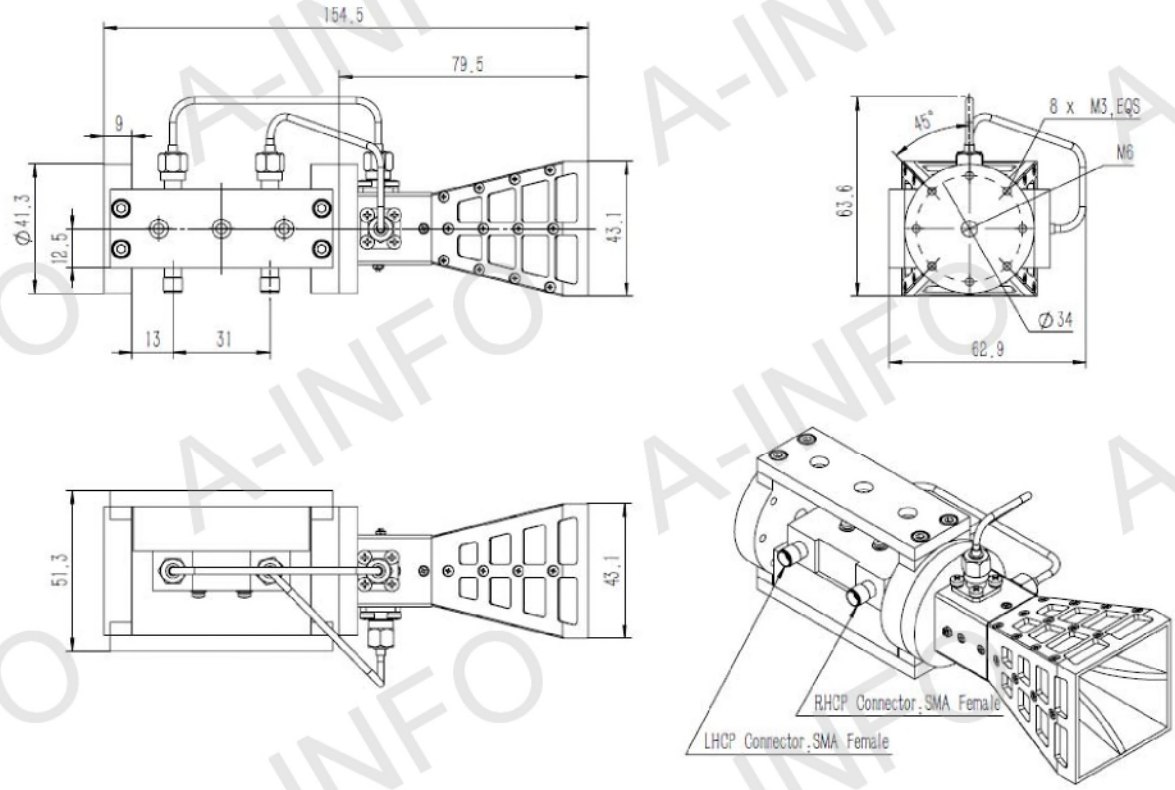
Technical Specification

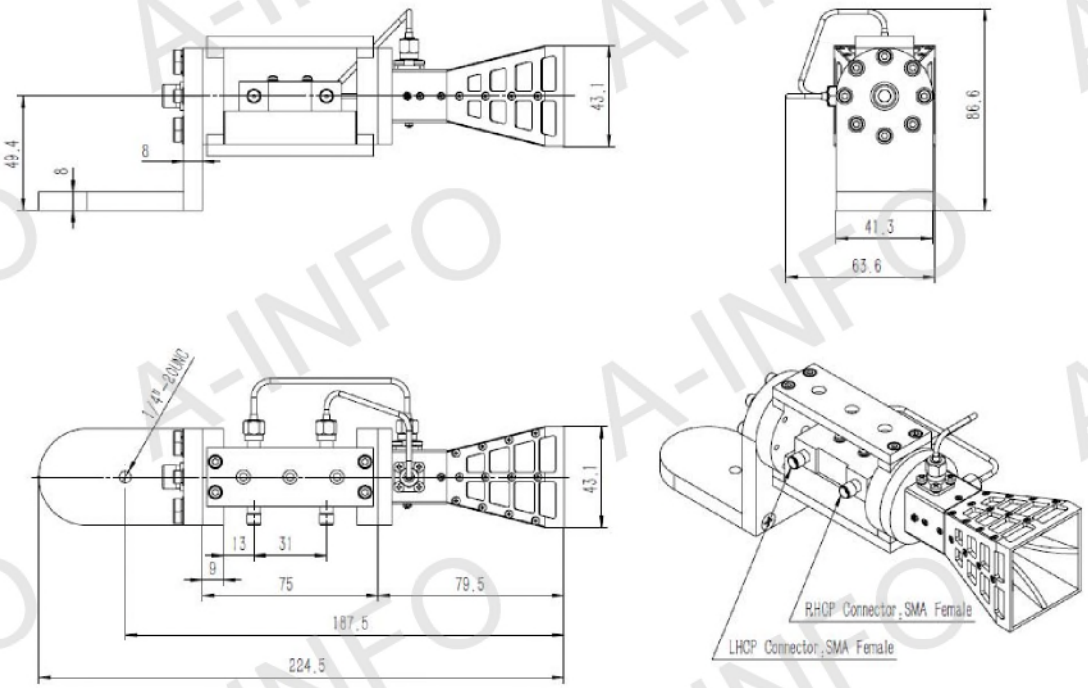
Frequency Range(GHz)	6.0 - 18.0
Gain(dBic)	12 Typ.
Polarization	Dual Circular
Axial Ratio(dB)	2.0 Typ.
	4.0 Max.
3dB Beamwidth(deg)	76 - 29
Port to Port Isolation(dB)	15 Typ.
VSWR	2.0:1 Max.
Output	SMA-Female
Power Handling(W)	20 Max. CW
Material	Al
Size(mm)	62.9 x 63.6 x 154.5
Net Weight(Kg)	0.35 Around

Outline Drawing (Size: mm)

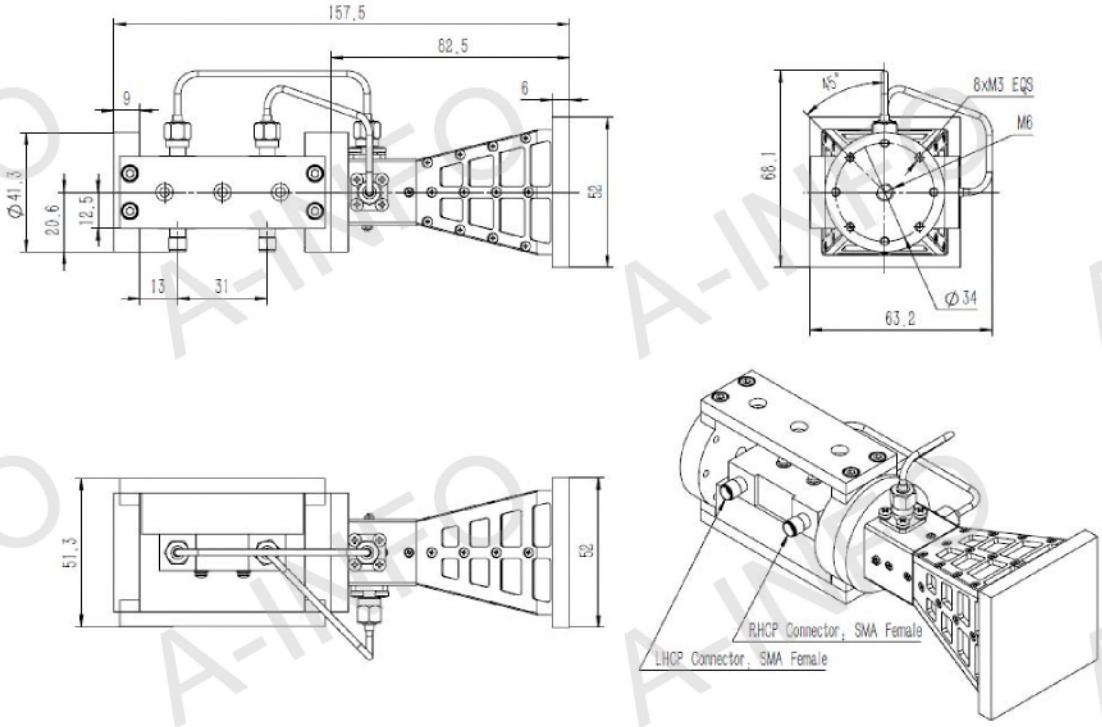
SMA Female Output



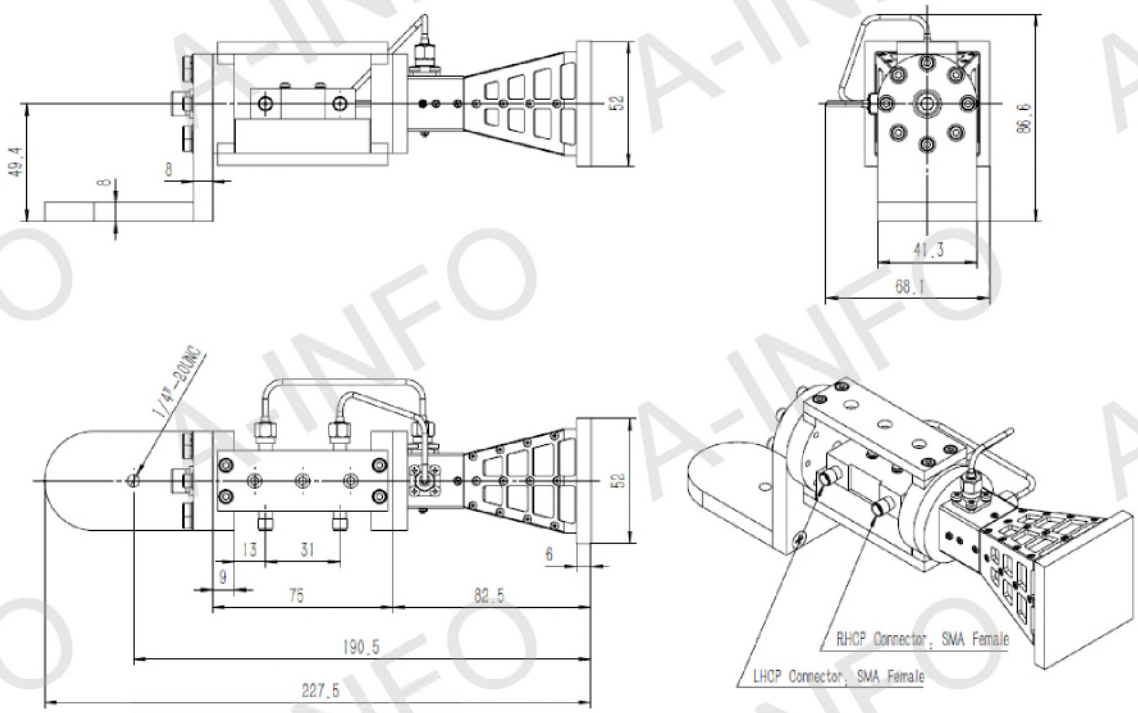
SMA Female Output with L Type Mounting Bracket



SMA Female Output with Radome

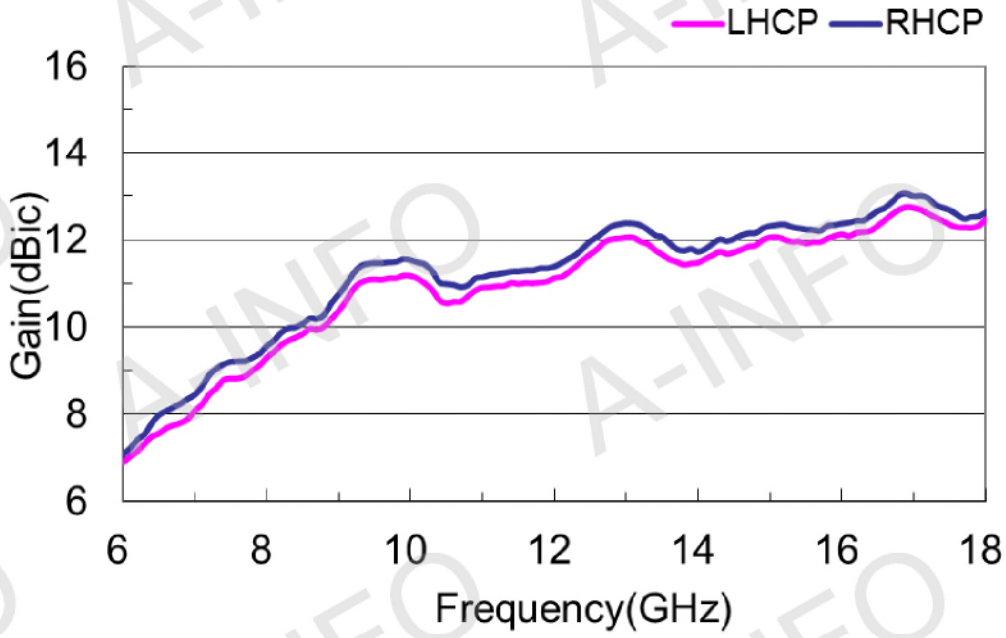


SMA Female Output with L Type Mounting Bracket & Radome

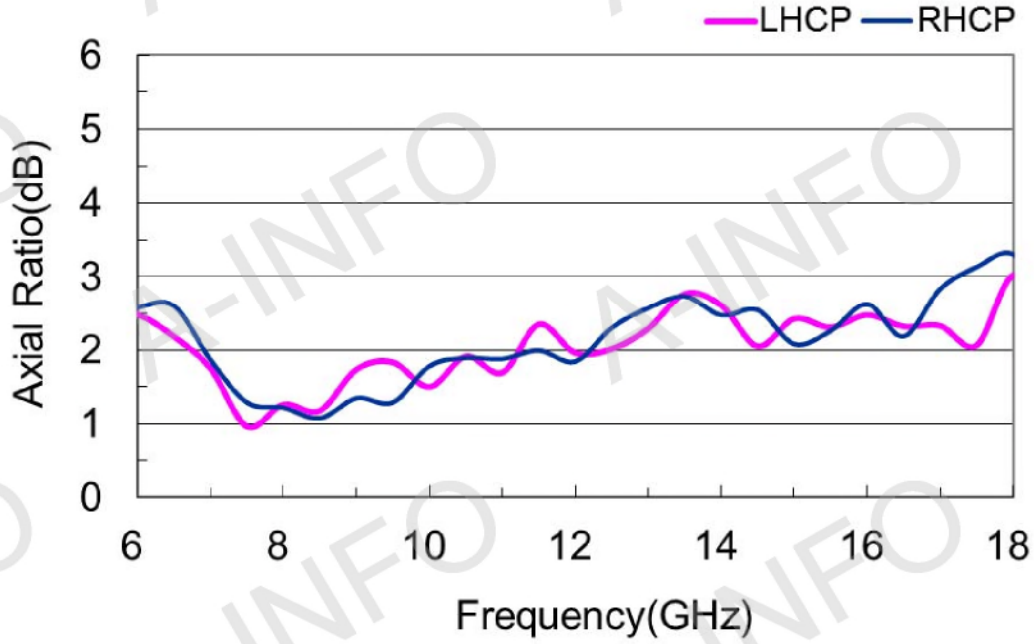


Test Results

1. Gain



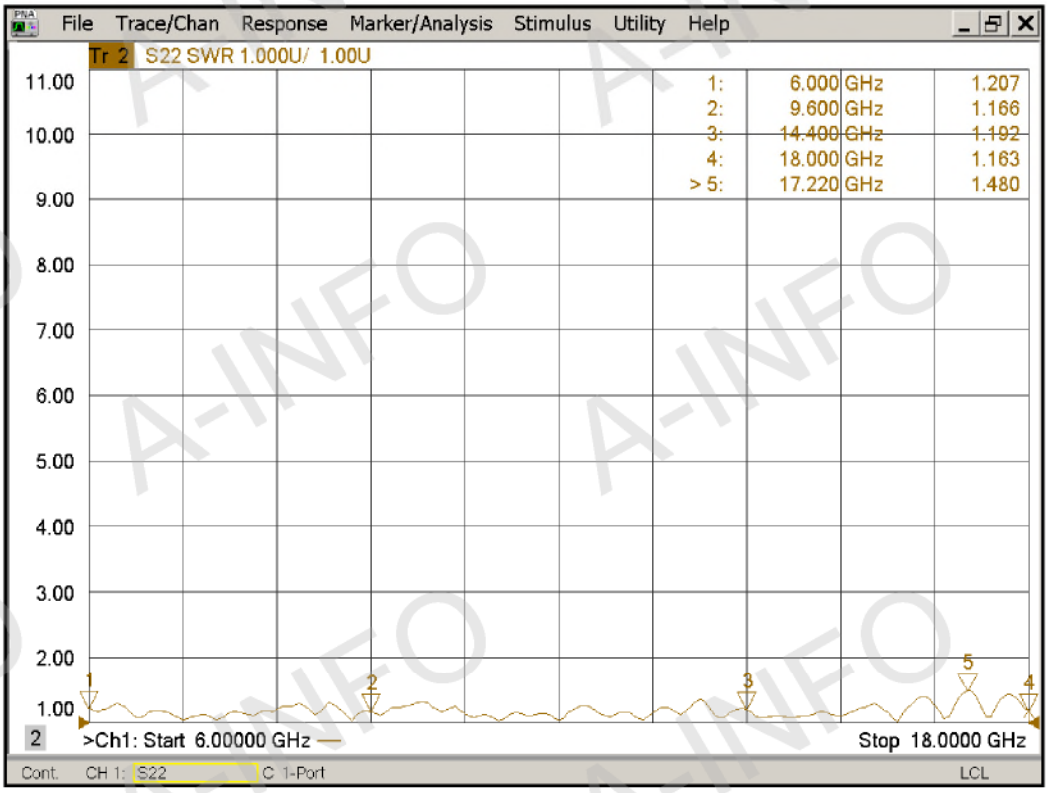
2. Axial Ratio



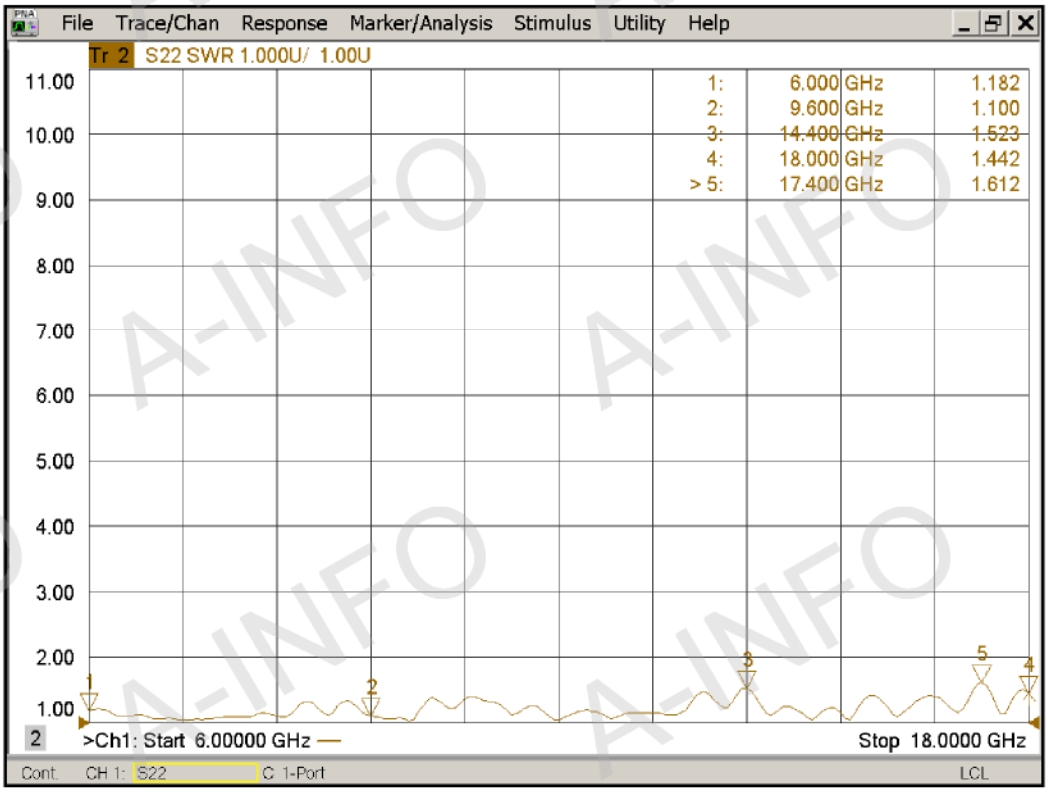
Distributed by: Reliant EMC LLC, Tel. +408-320-9644/+408-916-5750, www.reliantemc.com

3. VSWR

LHCP

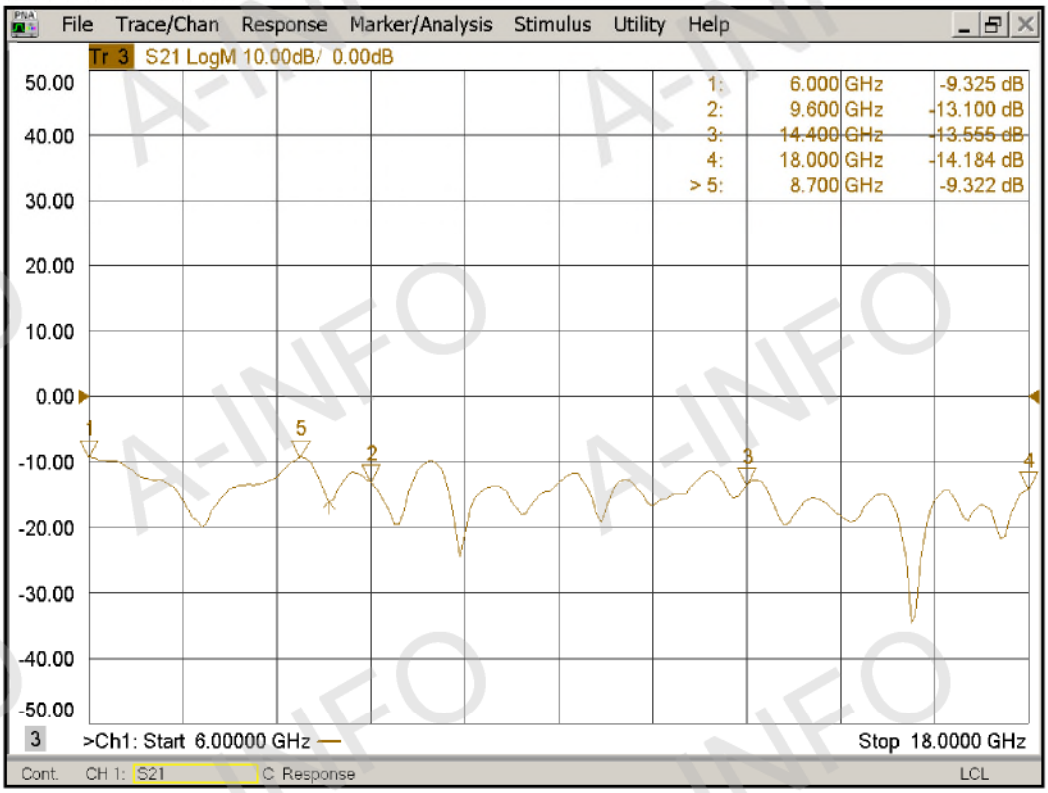


RHCP



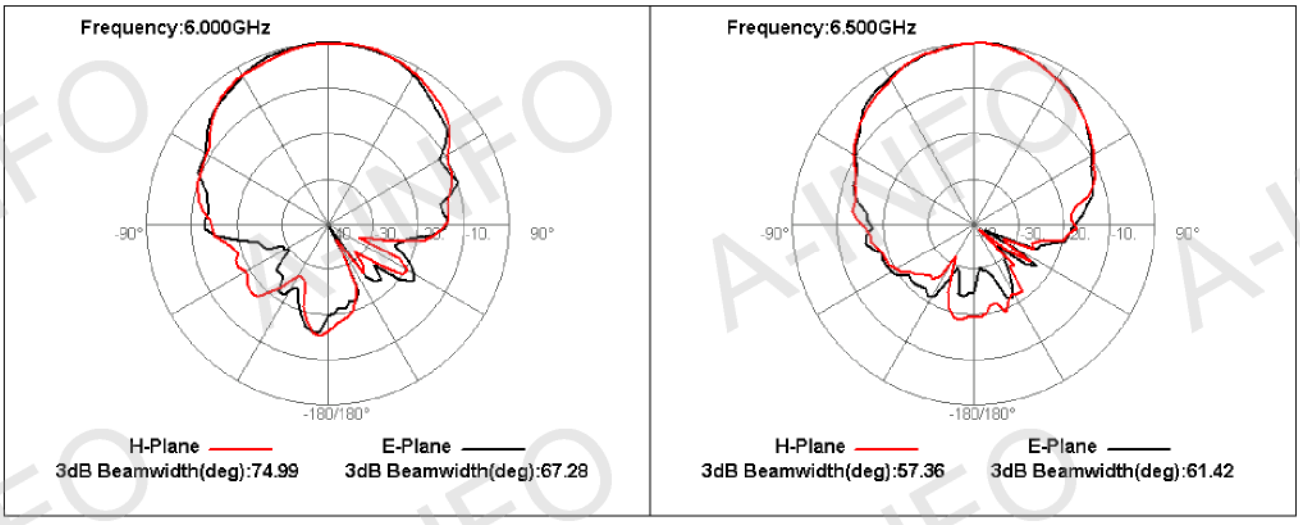
Distributed by: Reliant EMC LLC, Tel. +408-320-9644/+408-916-5750, www.reliantemc.com

4. Port to Port Isolation

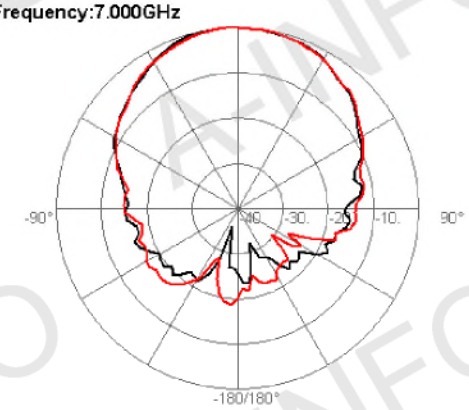


5. Pattern

LHCP



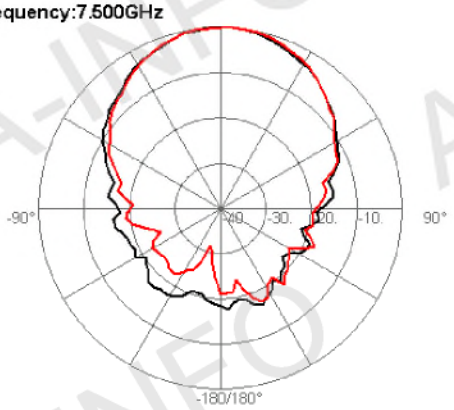
Frequency:7.000GHz



H-Plane
3dB Beamwidth(deg):65.77

E-Plane
3dB Beamwidth(deg):65.18

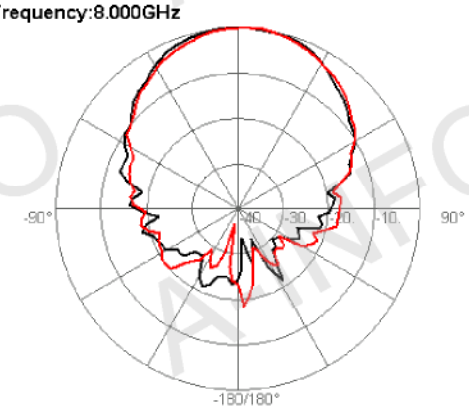
Frequency:7.500GHz



H-Plane
3dB Beamwidth(deg):56.99

E-Plane
3dB Beamwidth(deg):54.30

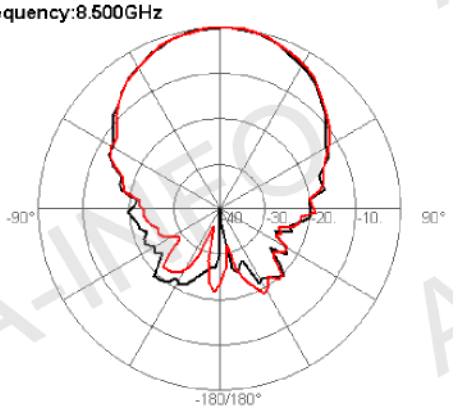
Frequency:8.000GHz



H-Plane
3dB Beamwidth(deg):54.89

E-Plane
3dB Beamwidth(deg):58.94

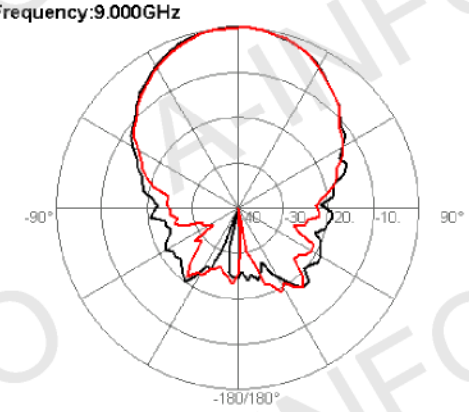
Frequency:8.500GHz



H-Plane
3dB Beamwidth(deg):54.24

E-Plane
3dB Beamwidth(deg):51.71

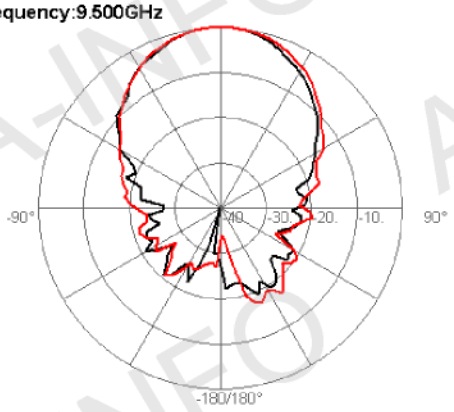
Frequency:9.000GHz



H-Plane
3dB Beamwidth(deg):51.65

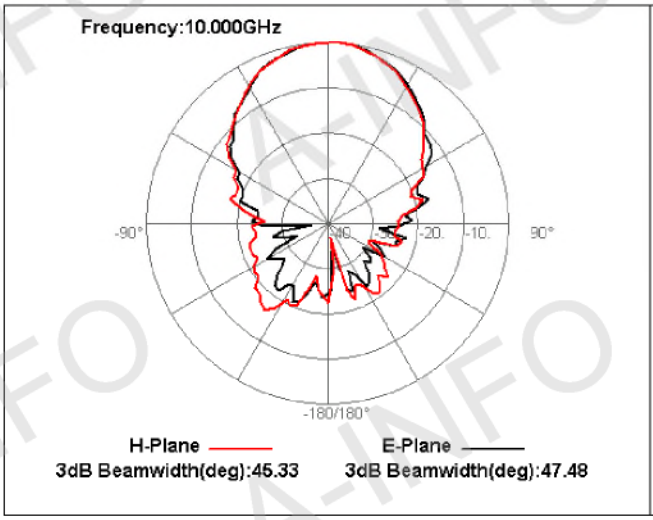
E-Plane
3dB Beamwidth(deg):53.58

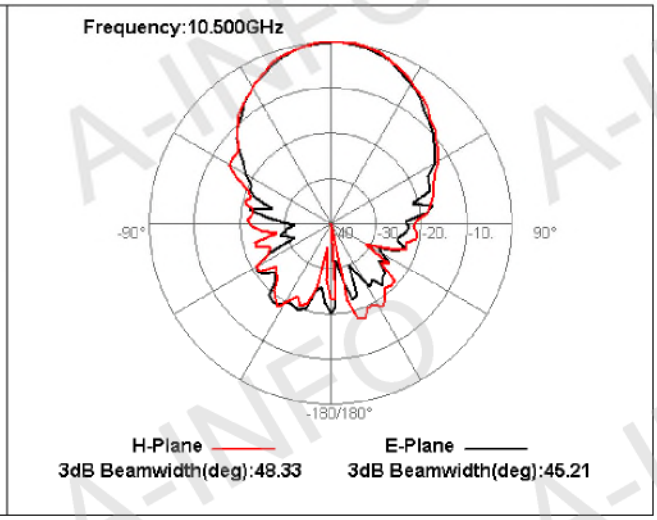
Frequency:9.500GHz

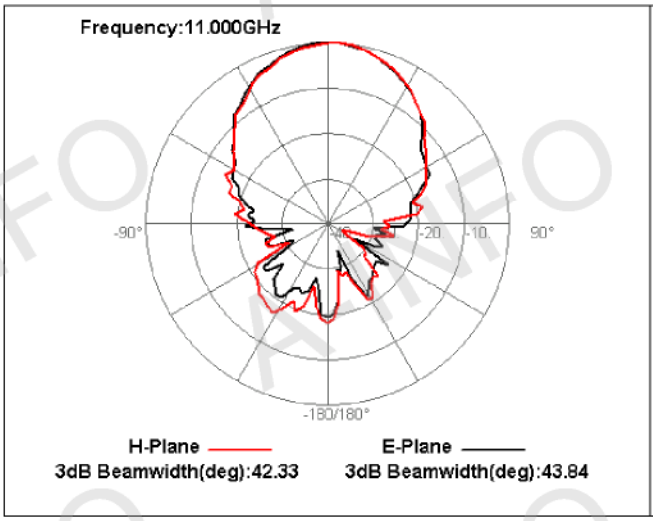


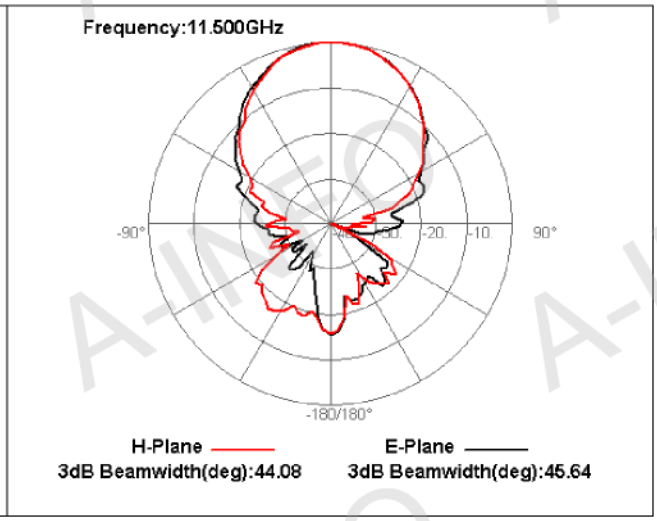
H-Plane
3dB Beamwidth(deg):50.47

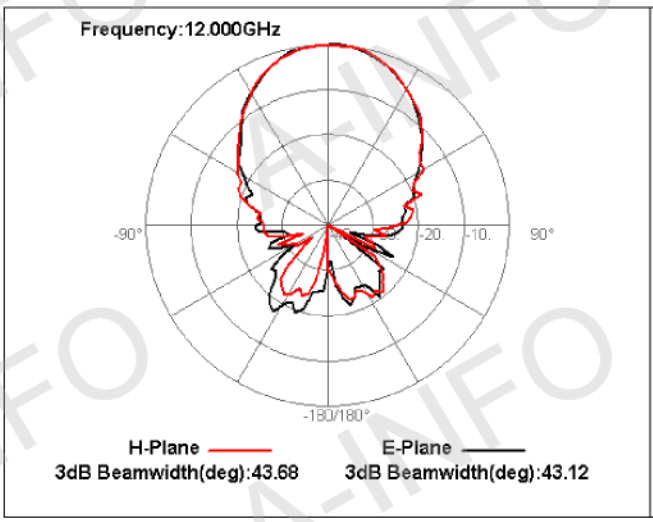
E-Plane
3dB Beamwidth(deg):45.05

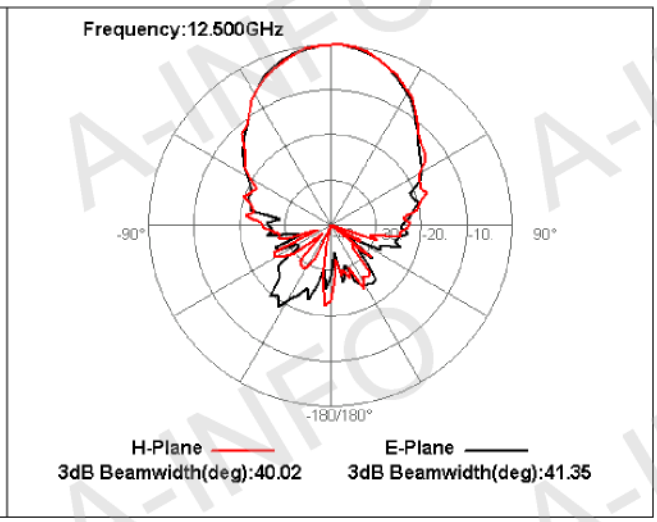

Frequency:10.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):45.33
E-Plane
3dB Beamwidth(deg):47.48


Frequency:10.500GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):48.33
E-Plane
3dB Beamwidth(deg):45.21

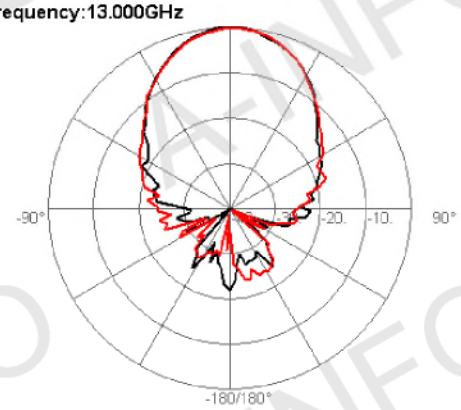

Frequency:11.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):42.33
E-Plane
3dB Beamwidth(deg):43.84


Frequency:11.500GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):44.08
E-Plane
3dB Beamwidth(deg):45.64


Frequency:12.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):43.68
E-Plane
3dB Beamwidth(deg):43.12


Frequency:12.500GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):40.02
E-Plane
3dB Beamwidth(deg):41.35

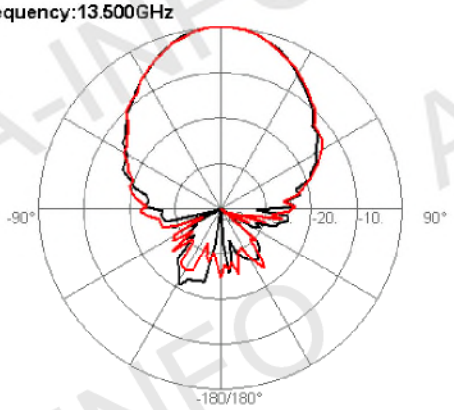
Frequency:13.000GHz



H-Plane
3dB Beamwidth(deg):37.86

E-Plane
3dB Beamwidth(deg):38.81

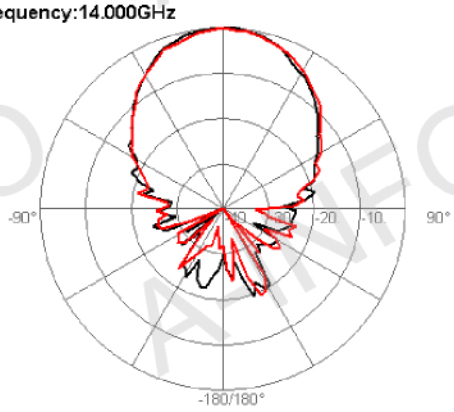
Frequency:13.500GHz



H-Plane
3dB Beamwidth(deg):39.77

E-Plane
3dB Beamwidth(deg):40.65

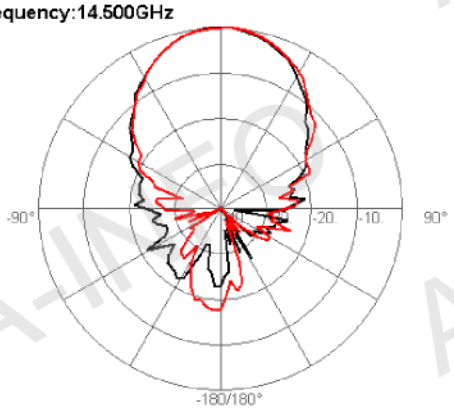
Frequency:14.000GHz



H-Plane
3dB Beamwidth(deg):44.13

E-Plane
3dB Beamwidth(deg):43.68

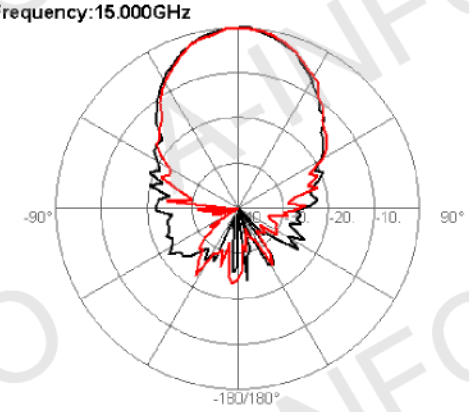
Frequency:14.500GHz



H-Plane
3dB Beamwidth(deg):41.82

E-Plane
3dB Beamwidth(deg):40.65

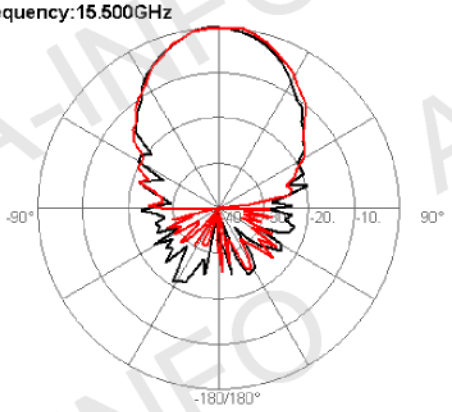
Frequency:15.000GHz



H-Plane
3dB Beamwidth(deg):37.66

E-Plane
3dB Beamwidth(deg):37.60

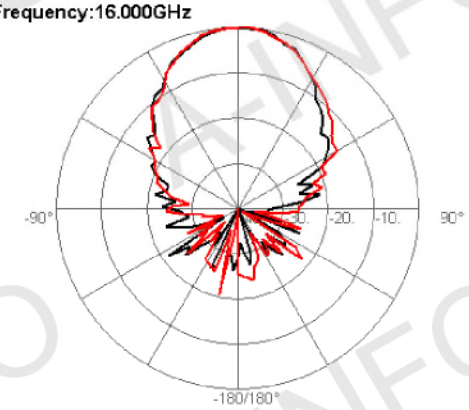
Frequency:15.500GHz



H-Plane
3dB Beamwidth(deg):37.26

E-Plane
3dB Beamwidth(deg):35.80

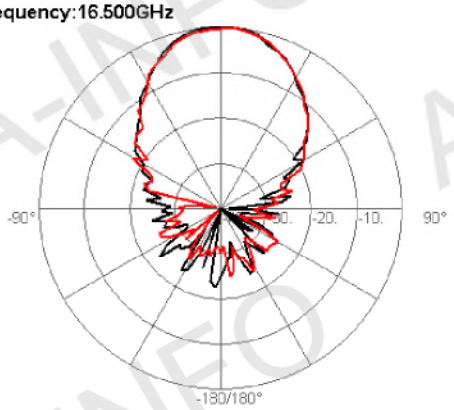
Frequency:16.000GHz



H-Plane
3dB Beamwidth(deg):38.13

E-Plane
3dB Beamwidth(deg):38.59

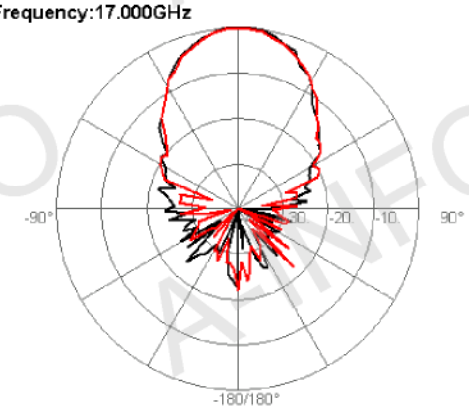
Frequency:16.500GHz



H-Plane
3dB Beamwidth(deg):37.32

E-Plane
3dB Beamwidth(deg):38.83

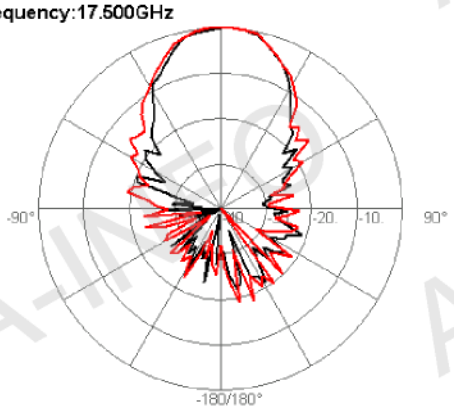
Frequency:17.000GHz



H-Plane
3dB Beamwidth(deg):33.58

E-Plane
3dB Beamwidth(deg):37.15

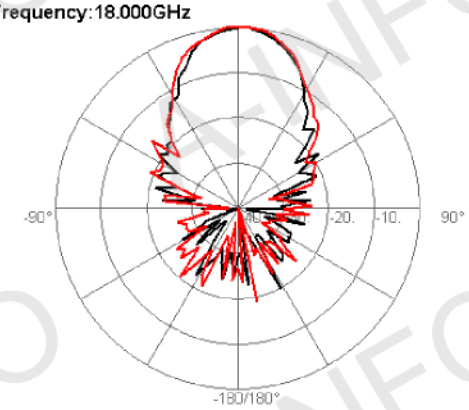
Frequency:17.500GHz



H-Plane
3dB Beamwidth(deg):34.91

E-Plane
3dB Beamwidth(deg):33.06

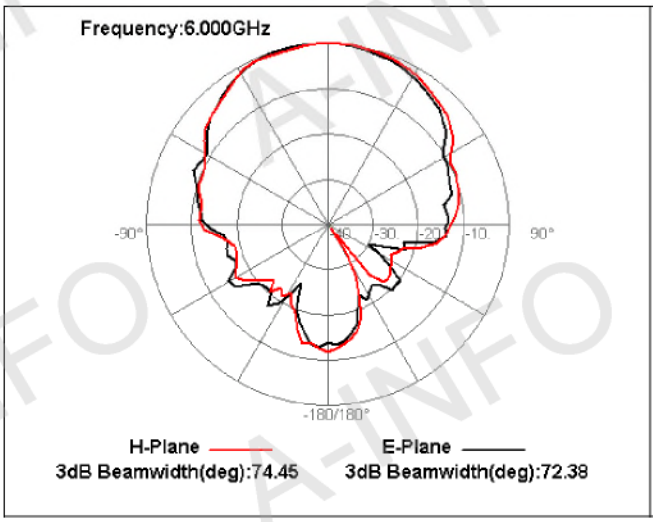
Frequency:18.000GHz

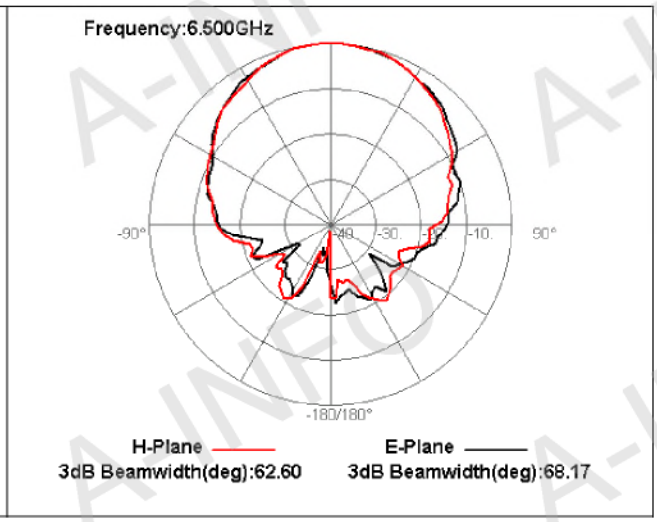


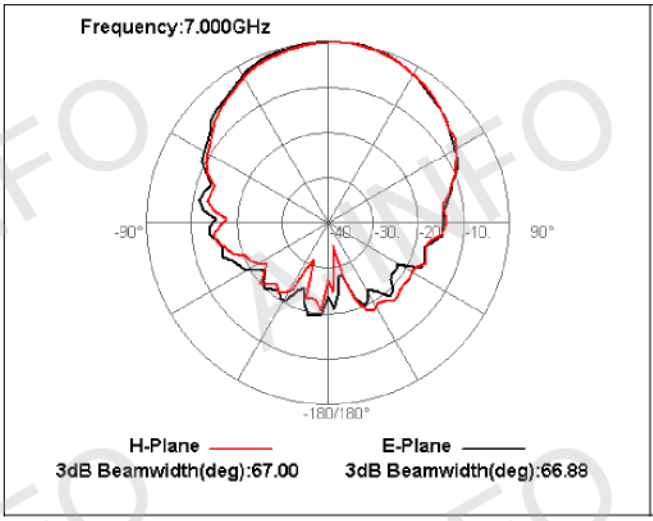
H-Plane
3dB Beamwidth(deg):32.82

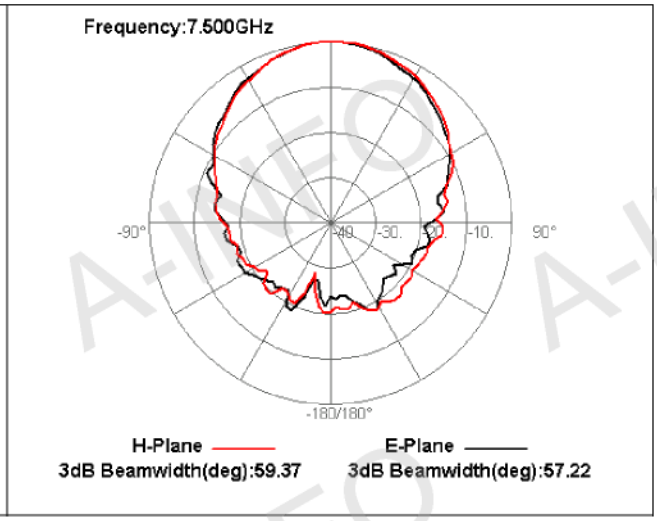
E-Plane
3dB Beamwidth(deg):29.86

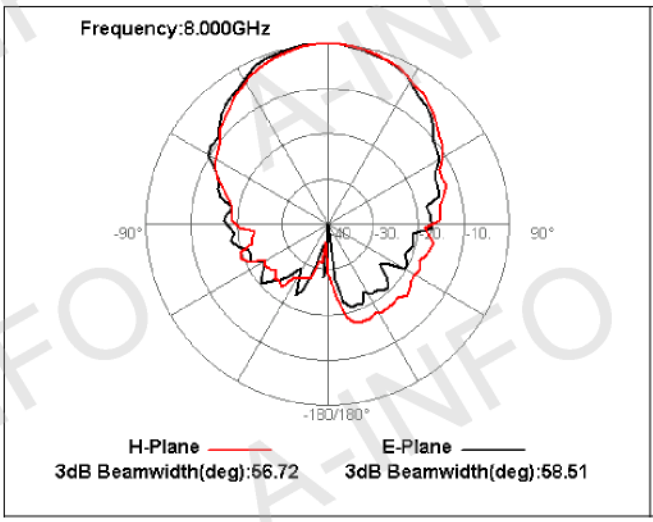
RHCP

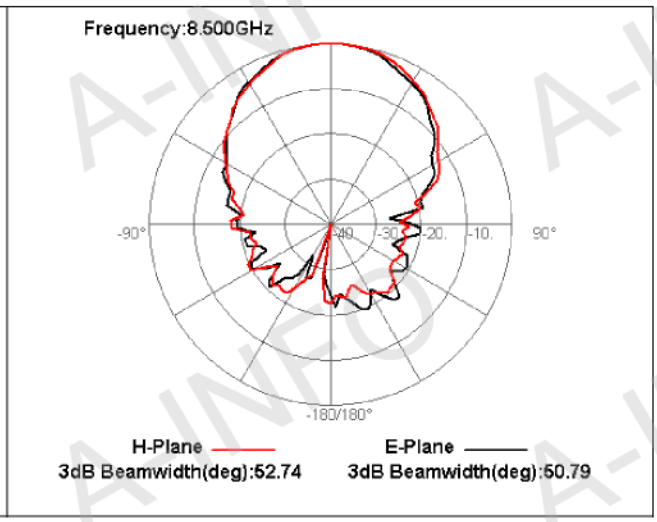

Frequency:6.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):74.45
E-Plane
3dB Beamwidth(deg):72.38


Frequency:6.500GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):62.60
E-Plane
3dB Beamwidth(deg):68.17

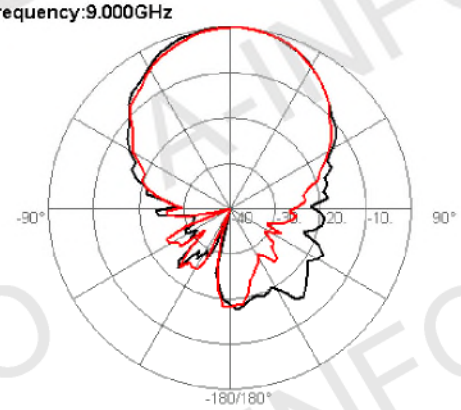

Frequency:7.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):67.00
E-Plane
3dB Beamwidth(deg):66.88


Frequency:7.500GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):59.37
E-Plane
3dB Beamwidth(deg):57.22


Frequency:8.000GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):66.72
E-Plane
3dB Beamwidth(deg):68.51


Frequency:8.500GHz
-90°
90°
-180/180°
H-Plane
3dB Beamwidth(deg):52.74
E-Plane
3dB Beamwidth(deg):50.79

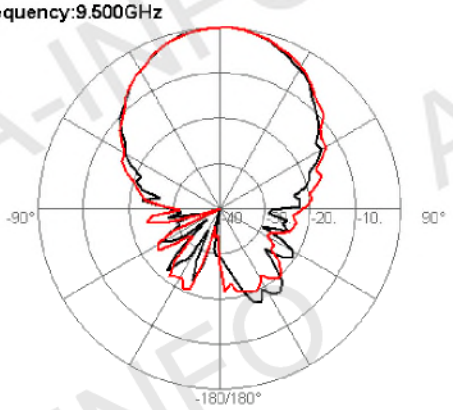
Frequency:9.000GHz



H-Plane
3dB Beamwidth(deg):49.67

E-Plane
3dB Beamwidth(deg):53.36

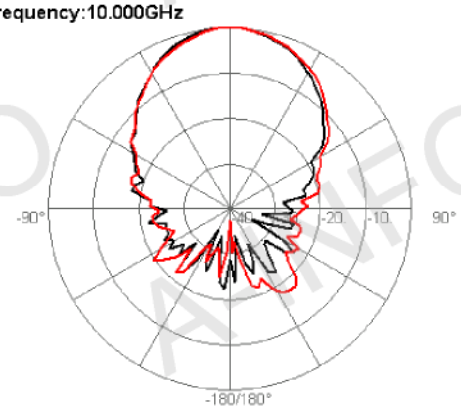
Frequency:9.500GHz



H-Plane
3dB Beamwidth(deg):48.21

E-Plane
3dB Beamwidth(deg):45.91

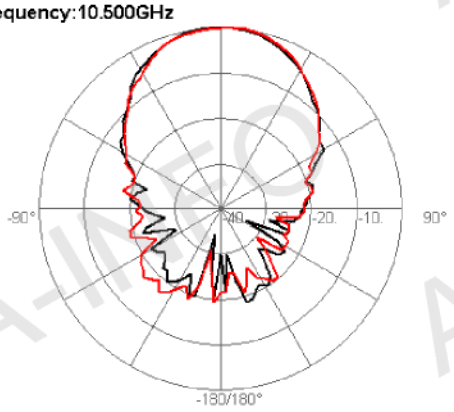
Frequency:10.000GHz



H-Plane
3dB Beamwidth(deg):44.80

E-Plane
3dB Beamwidth(deg):45.27

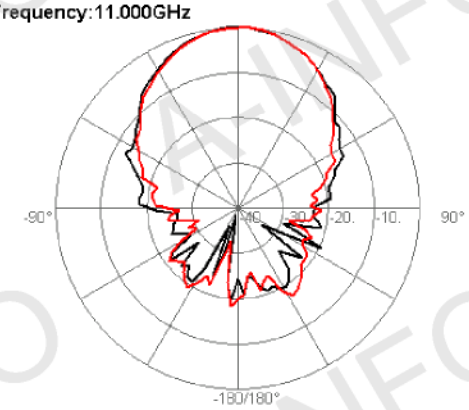
Frequency:10.500GHz



H-Plane
3dB Beamwidth(deg):48.15

E-Plane
3dB Beamwidth(deg):47.64

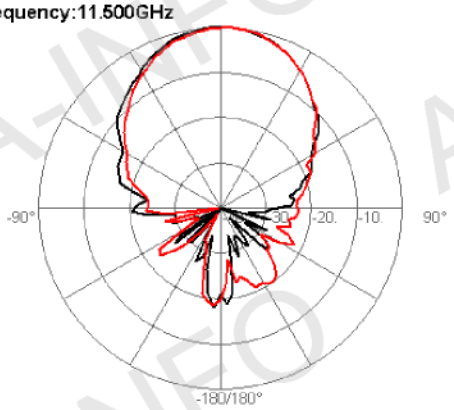
Frequency:11.000GHz



H-Plane
3dB Beamwidth(deg):45.99

E-Plane
3dB Beamwidth(deg):47.40

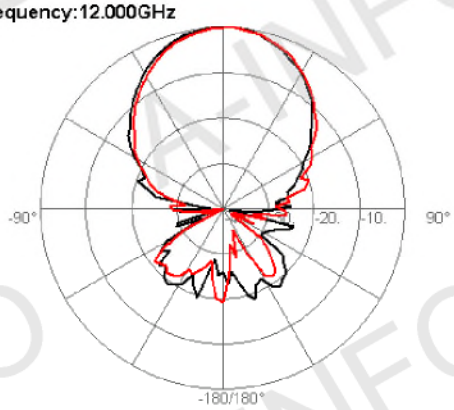
Frequency:11.500GHz



H-Plane
3dB Beamwidth(deg):44.77

E-Plane
3dB Beamwidth(deg):47.56

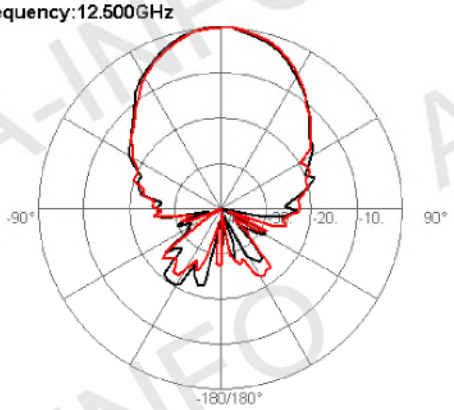
Frequency:12.000GHz



H-Plane
3dB Beamwidth(deg):43.08

E-Plane
3dB Beamwidth(deg):43.48

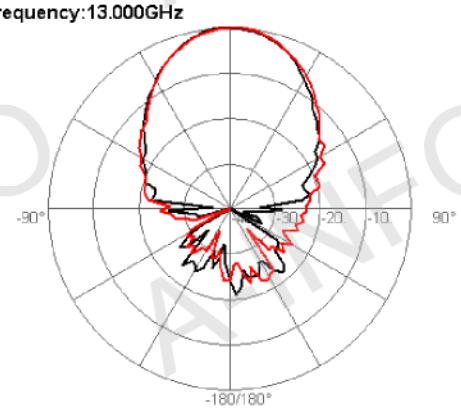
Frequency:12.500GHz



H-Plane
3dB Beamwidth(deg):39.61

E-Plane
3dB Beamwidth(deg):40.34

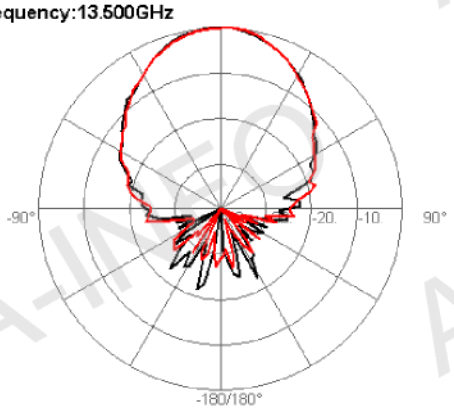
Frequency:13.000GHz



H-Plane
3dB Beamwidth(deg):37.39

E-Plane
3dB Beamwidth(deg):37.59

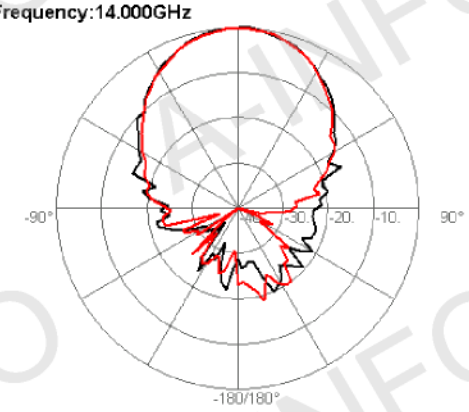
Frequency:13.500GHz



H-Plane
3dB Beamwidth(deg):41.50

E-Plane
3dB Beamwidth(deg):41.75

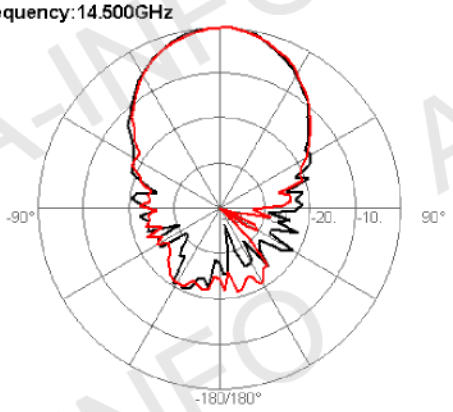
Frequency:14.000GHz



H-Plane
3dB Beamwidth(deg):44.64

E-Plane
3dB Beamwidth(deg):45.52

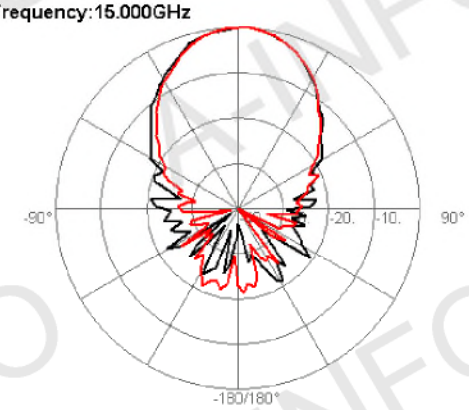
Frequency:14.500GHz



H-Plane
3dB Beamwidth(deg):41.62

E-Plane
3dB Beamwidth(deg):40.28

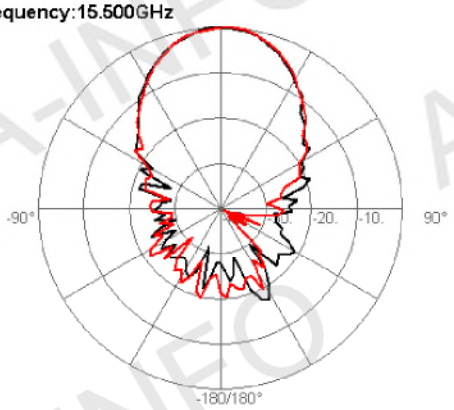
Frequency:15.000GHz



H-Plane
3dB Beamwidth(deg):36.35

E-Plane
3dB Beamwidth(deg):38.06

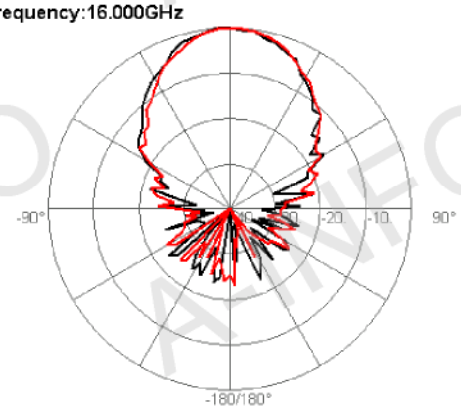
Frequency:15.500GHz



H-Plane
3dB Beamwidth(deg):37.36

E-Plane
3dB Beamwidth(deg):37.33

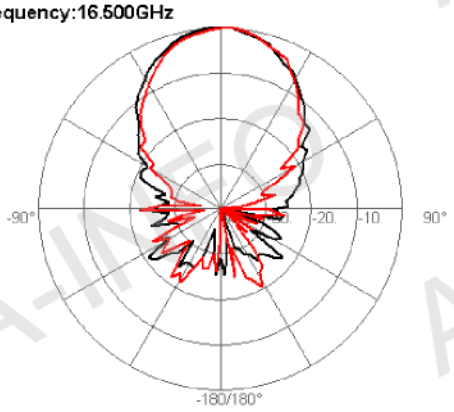
Frequency:16.000GHz



H-Plane
3dB Beamwidth(deg):35.96

E-Plane
3dB Beamwidth(deg):39.00

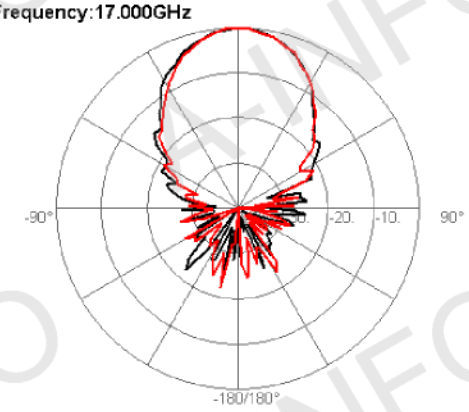
Frequency:16.500GHz



H-Plane
3dB Beamwidth(deg):36.42

E-Plane
3dB Beamwidth(deg):37.37

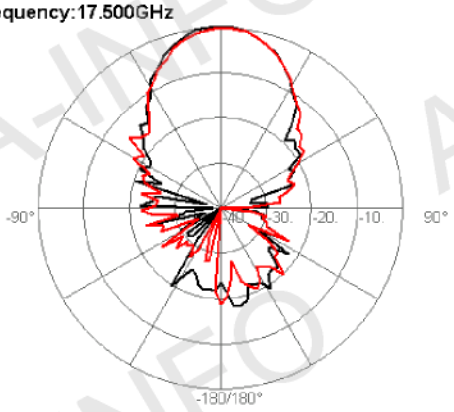
Frequency:17.000GHz



H-Plane
3dB Beamwidth(deg):33.42

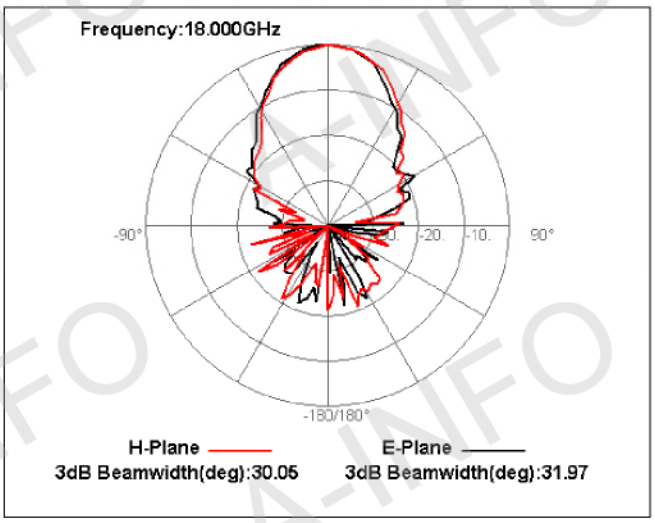
E-Plane
3dB Beamwidth(deg):35.14

Frequency:17.500GHz



H-Plane
3dB Beamwidth(deg):33.41

E-Plane
3dB Beamwidth(deg):34.99


Frequency:18.000GHz
-90°
-20.
-10.
90°
-180/180°
H-Plane
3dB Beamwidth(deg):30.05
E-Plane
3dB Beamwidth(deg):31.97