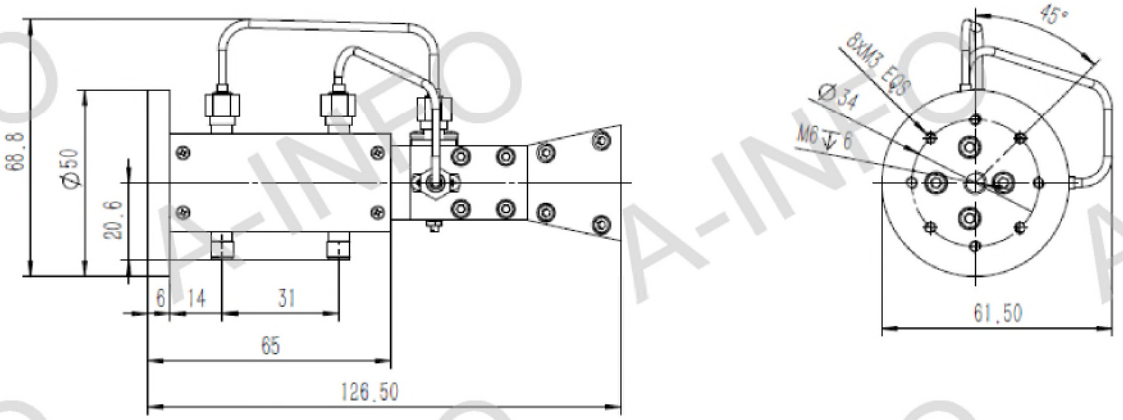
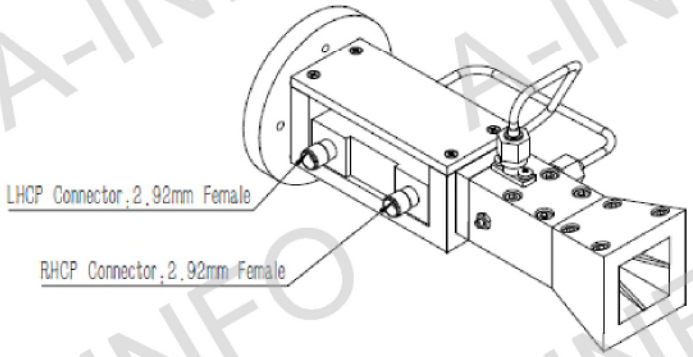
Technical Specification

Frequency Range(GHz)	18-40
Gain(dBic)	13 Typ.
Polarization	Dual Circular
VSWR	2.0 Max.
Axial Ratio(dB)	1.5 Typ.
	3.0 Max.
3dB Beamwidth(deg)	53-26
Port to Port Isolation(dB)	15 Typ.
Connector	2.92mm-Female
Size(mm)	61.50 x 68.8 x 126.50
Net Weight(Kg)	0.38 Around

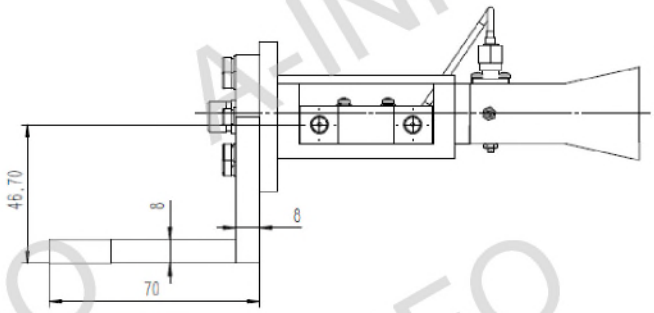
Outline Drawing (Size: mm)

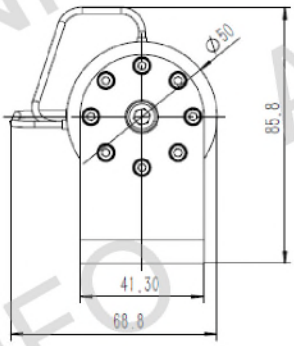
2.92mm Female Output

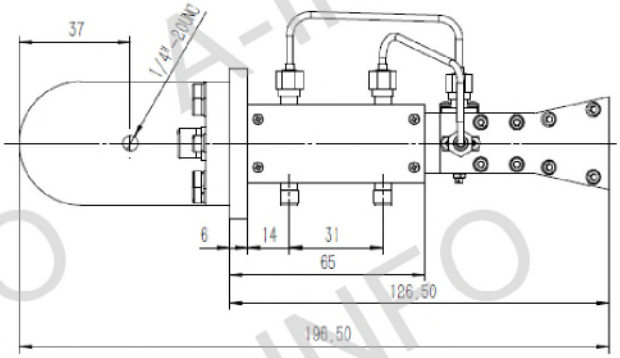


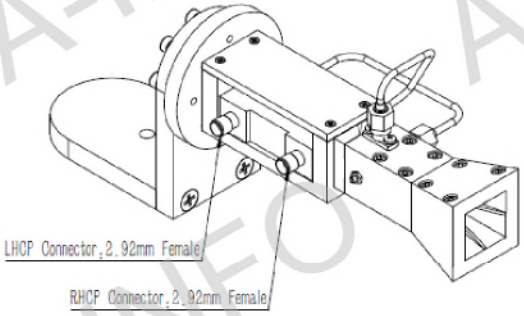


2.92mm Female Output with L type mounting bracket

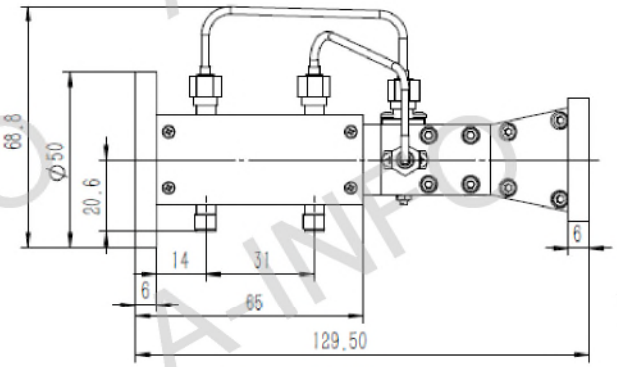


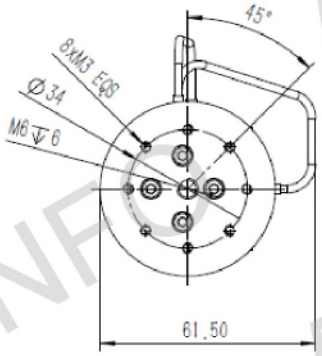


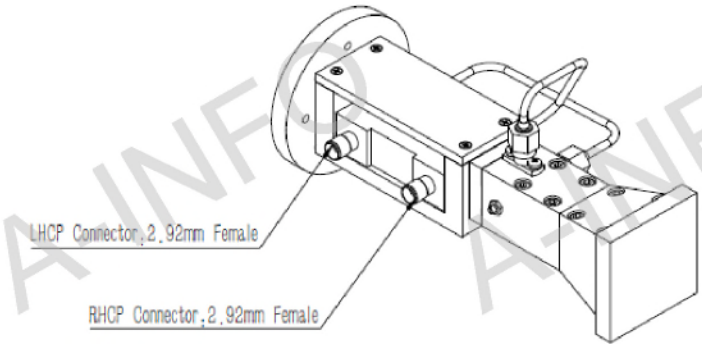




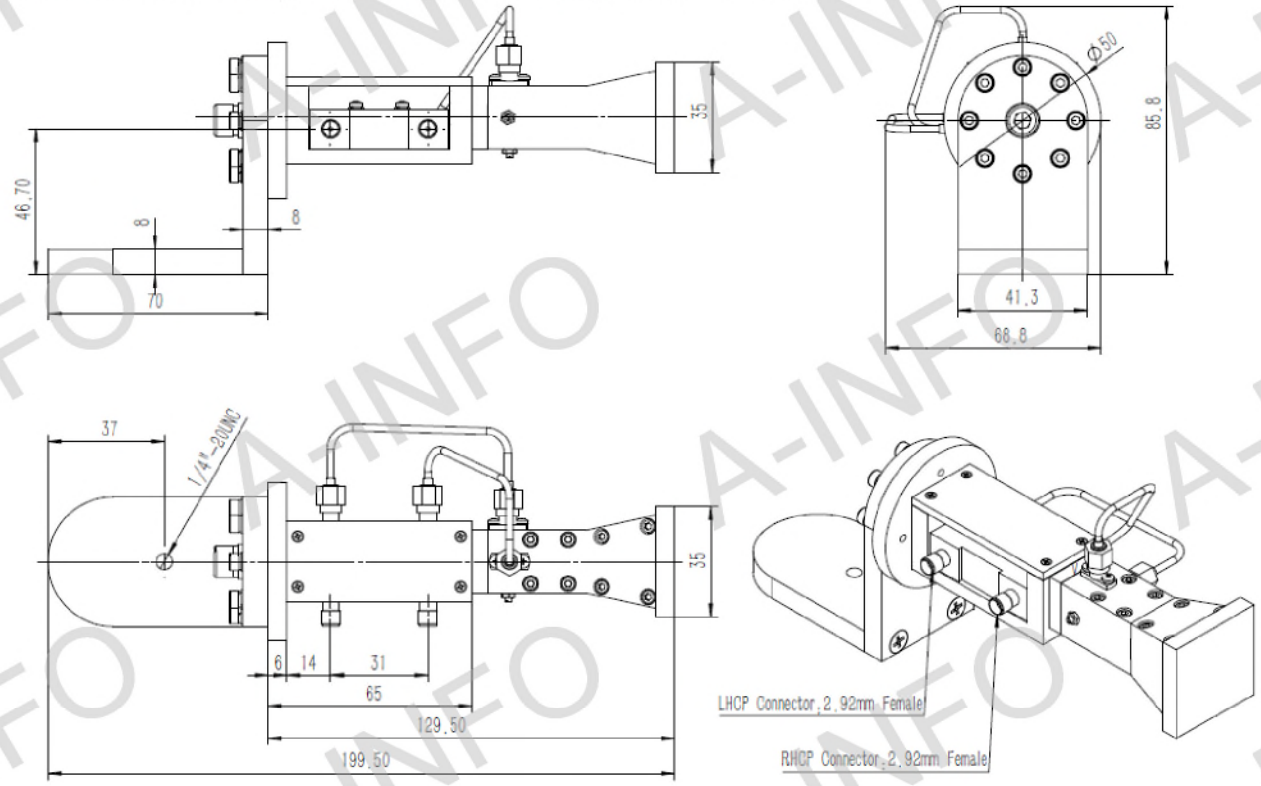
2.92mm Female Output with Radome





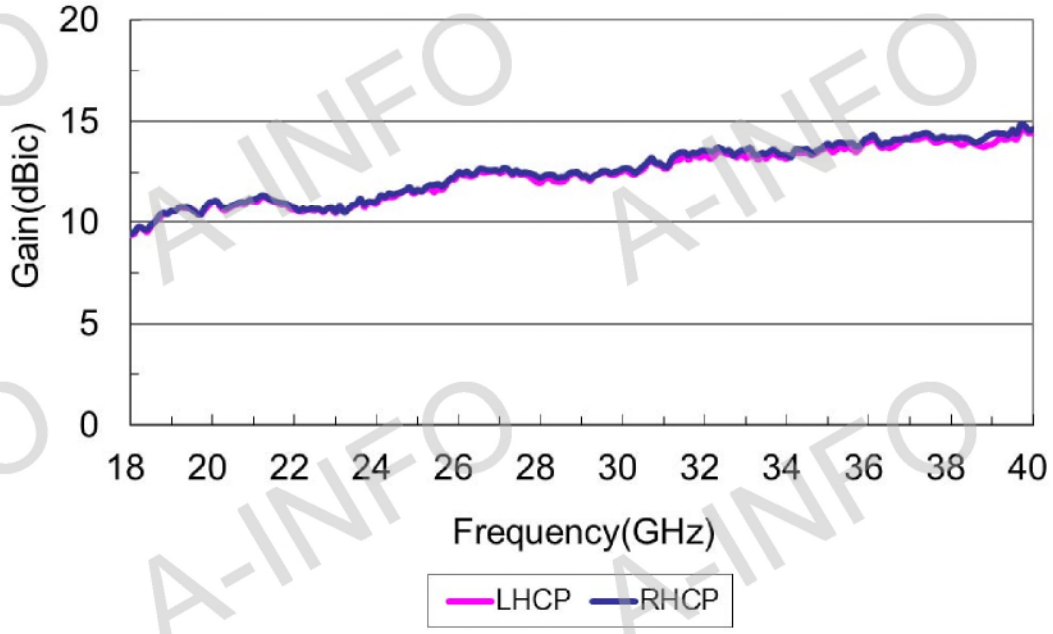


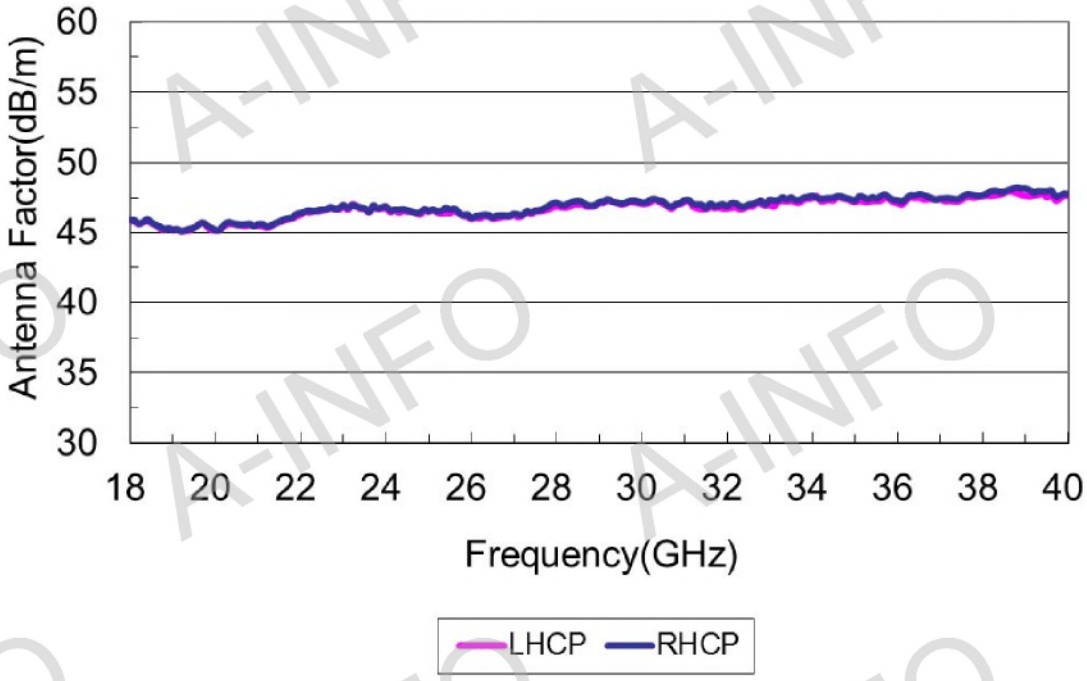
2.92mm Female Output with L type mounting bracket & Radome



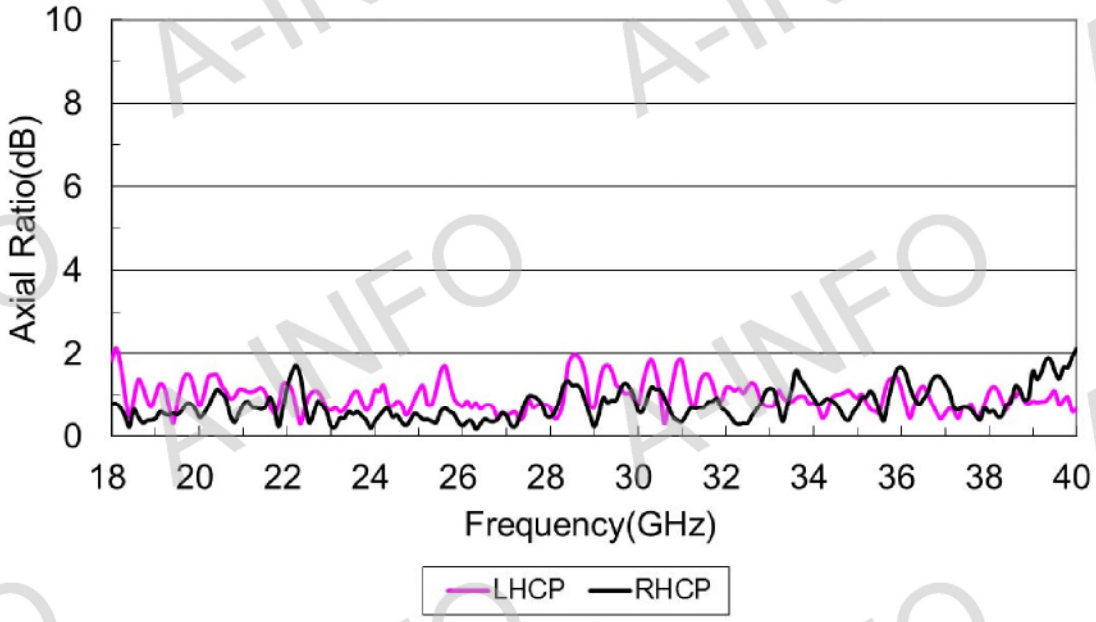
Test Results

1. Gain and Antenna Factor



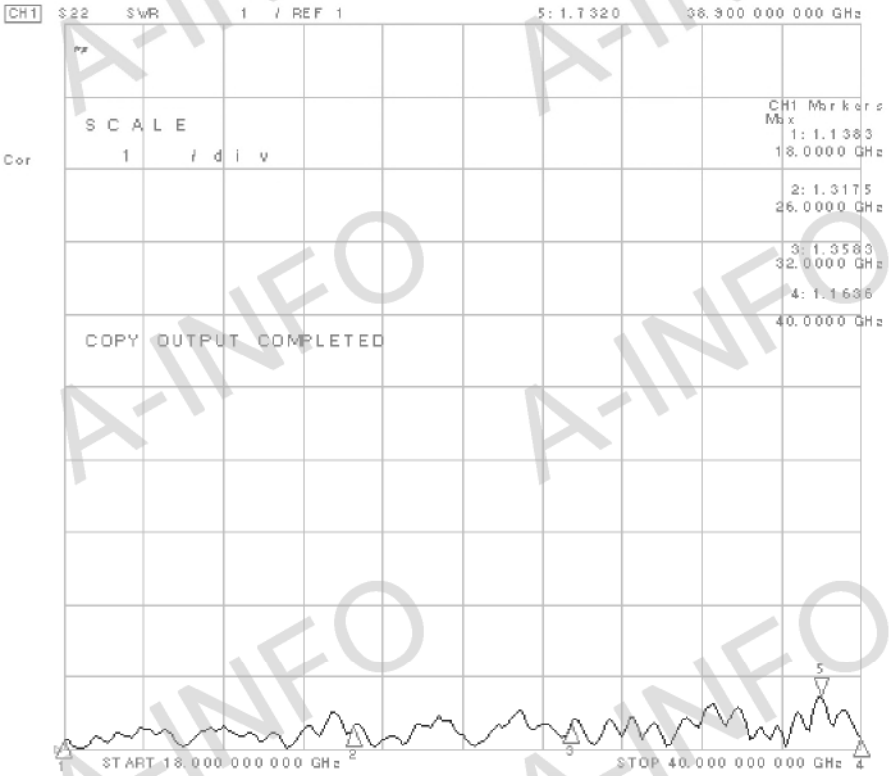


2. Axial Ratio

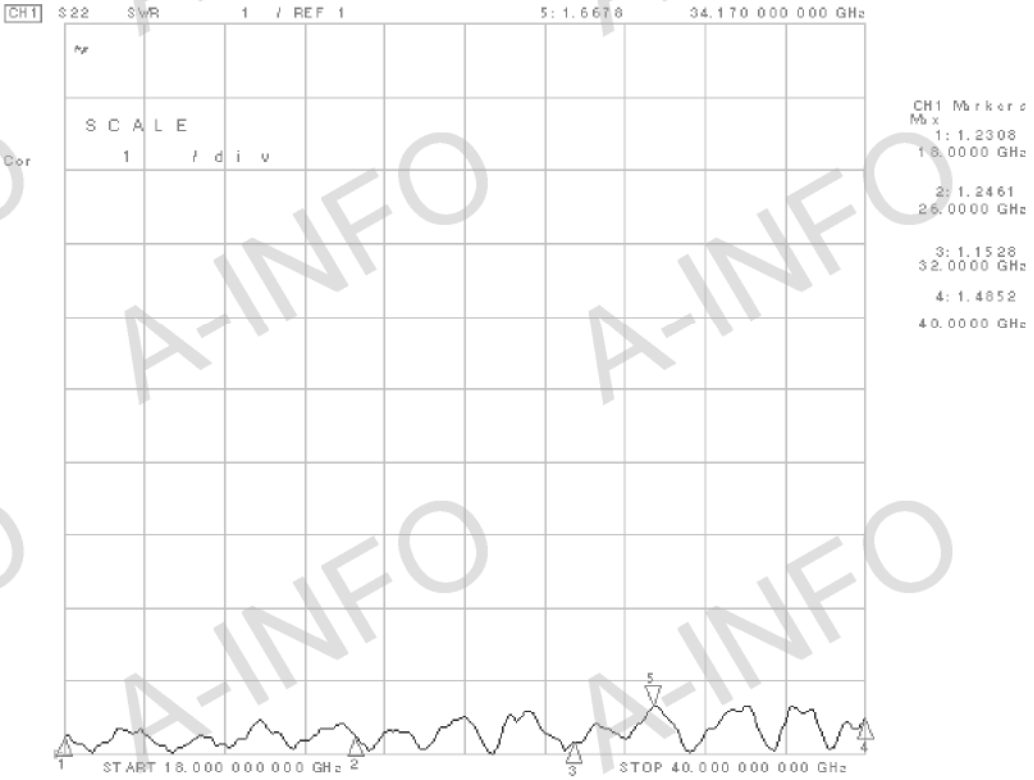


3. VSWR

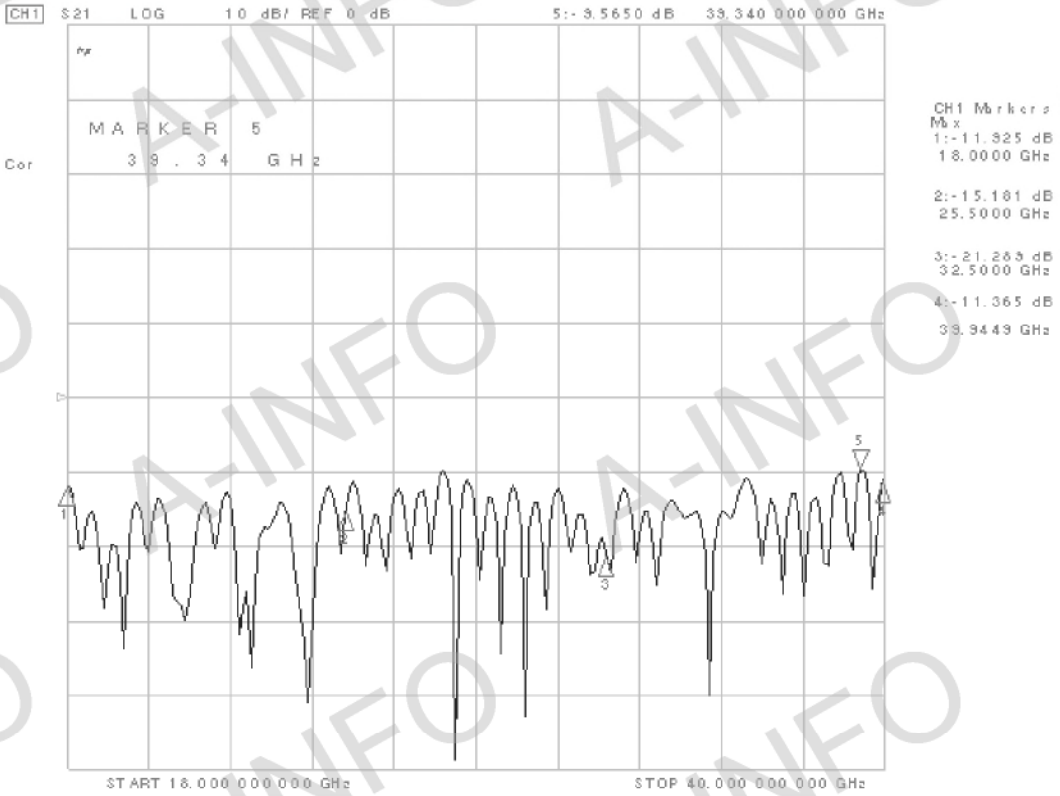
LHCP



RHCP

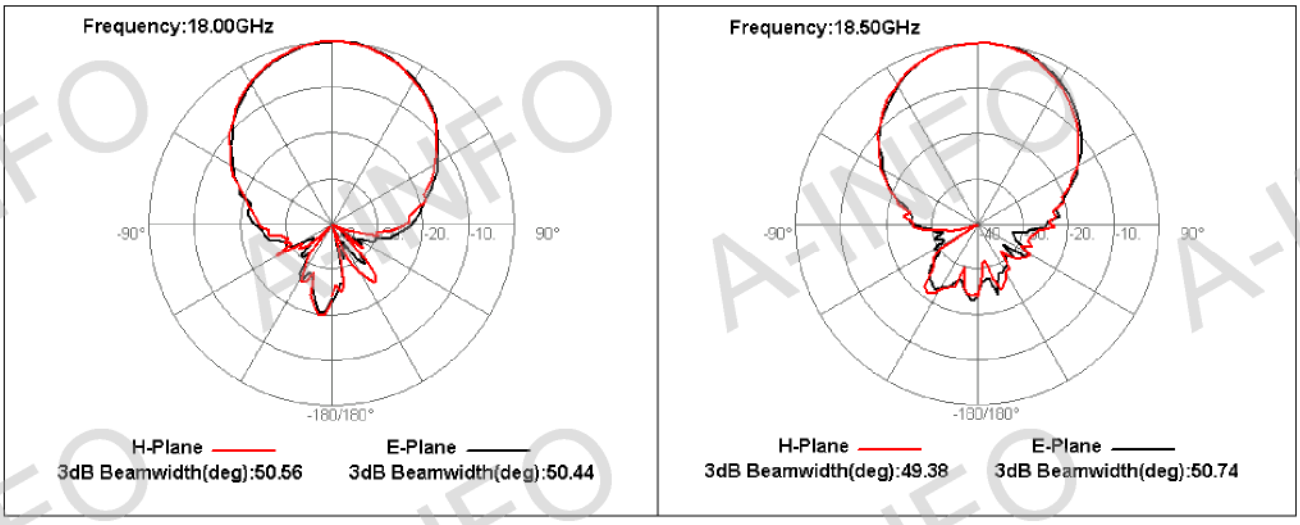


4. Port to Port Isolation

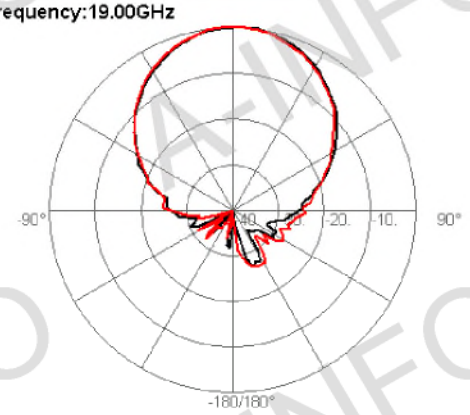


5. Pattern

LHCP



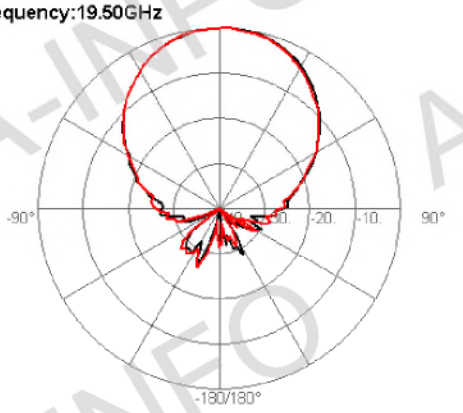
Frequency:19.00GHz



H-Plane
3dB Beamwidth(deg):48.59

E-Plane
3dB Beamwidth(deg):48.80

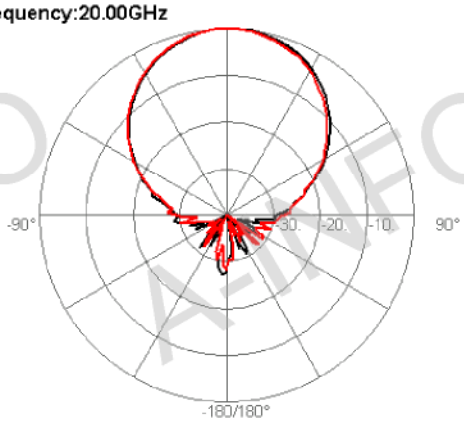
Frequency:19.50GHz



H-Plane
3dB Beamwidth(deg):48.52

E-Plane
3dB Beamwidth(deg):50.14

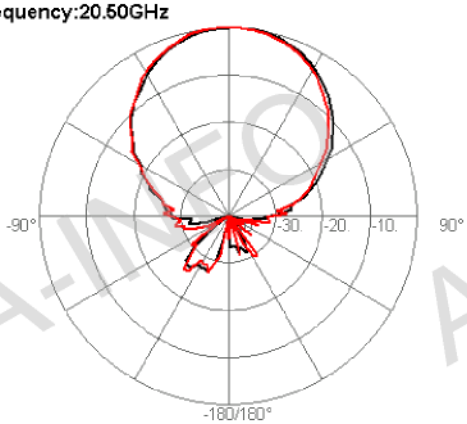
Frequency:20.00GHz



H-Plane
3dB Beamwidth(deg):48.06

E-Plane
3dB Beamwidth(deg):49.43

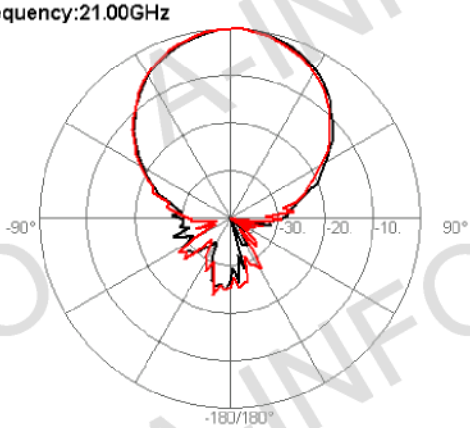
Frequency:20.50GHz



H-Plane
3dB Beamwidth(deg):48.64

E-Plane
3dB Beamwidth(deg):49.19

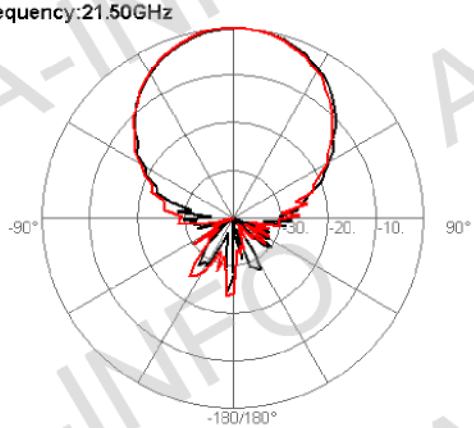
Frequency:21.00GHz



H-Plane
3dB Beamwidth(deg):45.93

E-Plane
3dB Beamwidth(deg):46.57

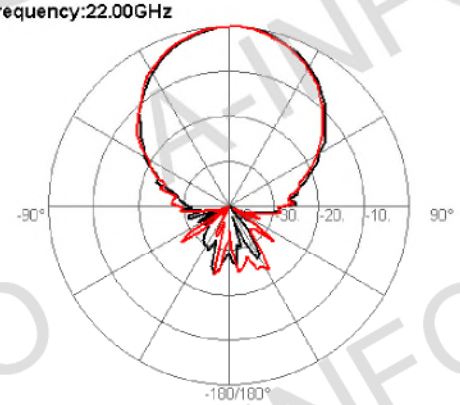
Frequency:21.50GHz



H-Plane
3dB Beamwidth(deg):47.48

E-Plane
3dB Beamwidth(deg):48.14

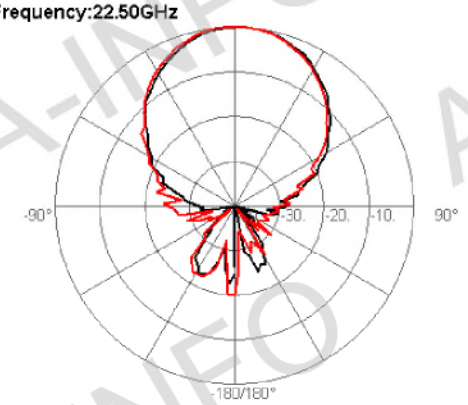
Frequency:22.00GHz



H-Plane
3dB Beamwidth(deg):45.34

E-Plane
3dB Beamwidth(deg):45.32

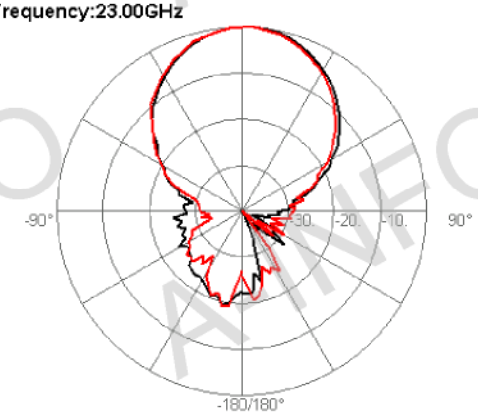
Frequency:22.50GHz



H-Plane
3dB Beamwidth(deg):45.70

E-Plane
3dB Beamwidth(deg):45.14

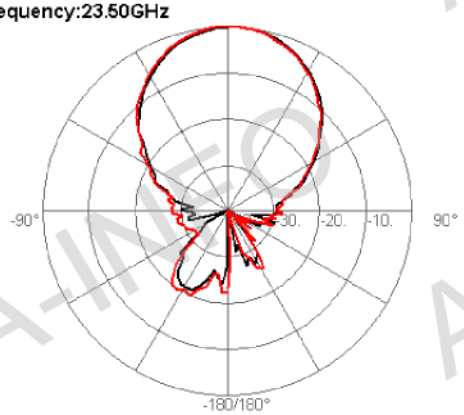
Frequency:23.00GHz



H-Plane
3dB Beamwidth(deg):42.02

E-Plane
3dB Beamwidth(deg):43.21

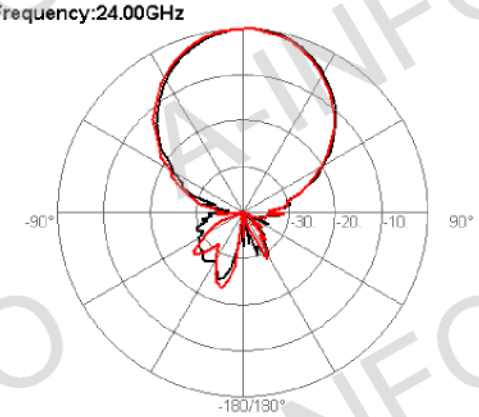
Frequency:23.50GHz



H-Plane
3dB Beamwidth(deg):44.01

E-Plane
3dB Beamwidth(deg):44.43

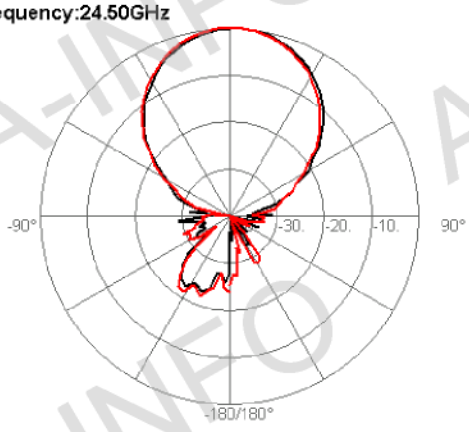
Frequency:24.00GHz



H-Plane
3dB Beamwidth(deg):42.75

E-Plane
3dB Beamwidth(deg):42.54

Frequency:24.50GHz

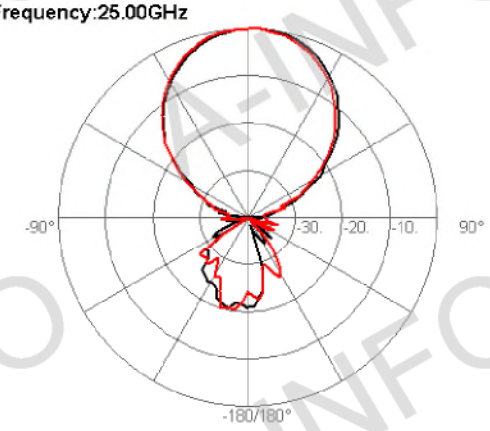


H-Plane
3dB Beamwidth(deg):42.11

E-Plane
3dB Beamwidth(deg):42.38

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

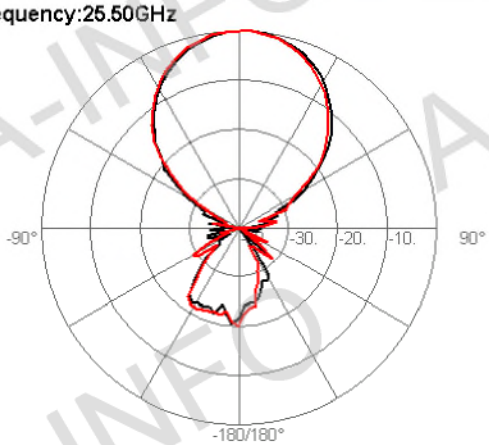
Frequency:25.00GHz



H-Plane
3dB Beamwidth(deg):40.71

E-Plane
3dB Beamwidth(deg):41.61

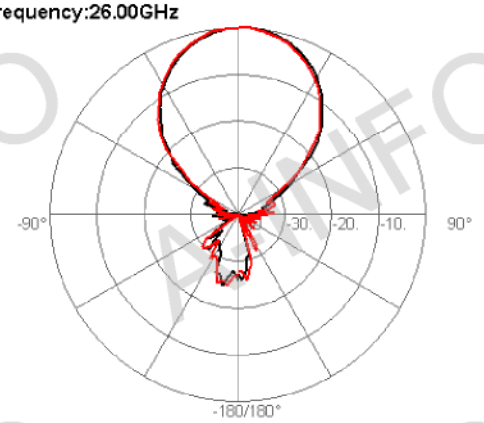
Frequency:25.50GHz



H-Plane
3dB Beamwidth(deg):39.20

E-Plane
3dB Beamwidth(deg):39.98

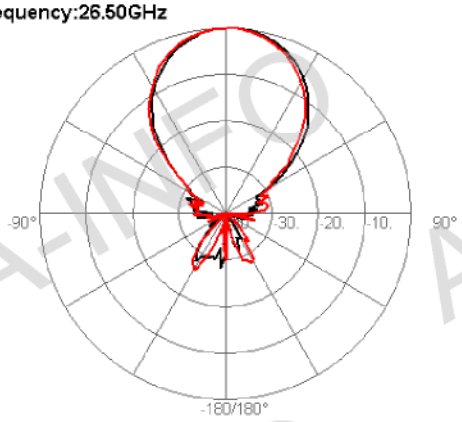
Frequency:26.00GHz



H-Plane
3dB Beamwidth(deg):38.14

E-Plane
3dB Beamwidth(deg):38.63

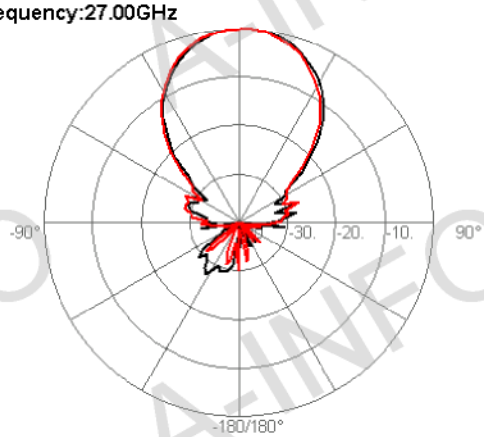
Frequency:26.50GHz



H-Plane
3dB Beamwidth(deg):37.21

E-Plane
3dB Beamwidth(deg):37.43

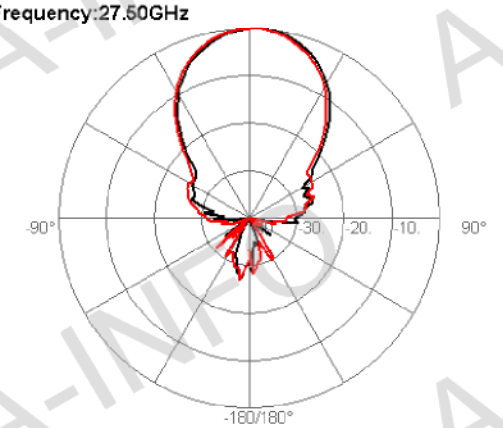
Frequency:27.00GHz



H-Plane
3dB Beamwidth(deg):36.51

E-Plane
3dB Beamwidth(deg):36.55

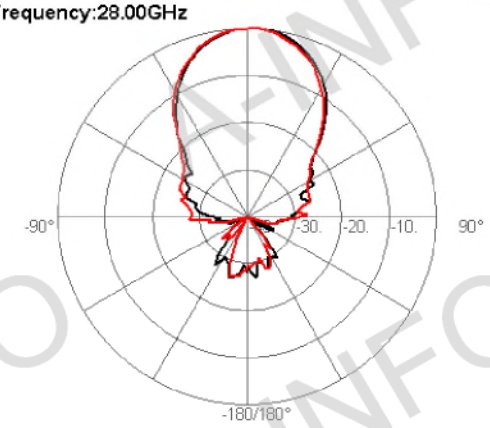
Frequency:27.50GHz



H-Plane
3dB Beamwidth(deg):35.15

E-Plane
3dB Beamwidth(deg):35.21

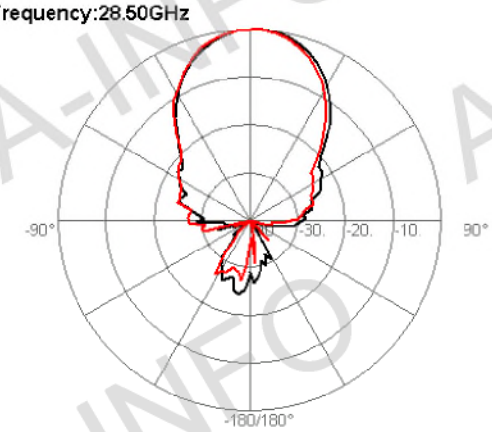
Frequency:28.00GHz



H-Plane
3dB Beamwidth(deg):34.19

E-Plane
3dB Beamwidth(deg):35.34

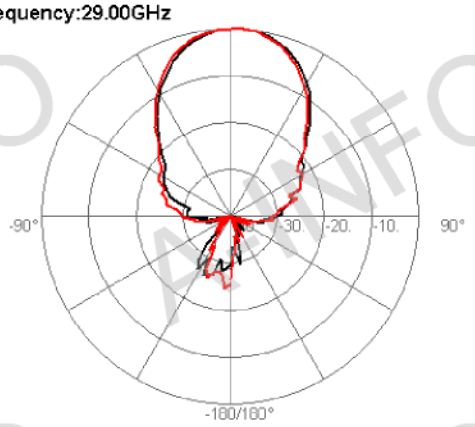
Frequency:28.50GHz



H-Plane
3dB Beamwidth(deg):34.99

E-Plane
3dB Beamwidth(deg):35.56

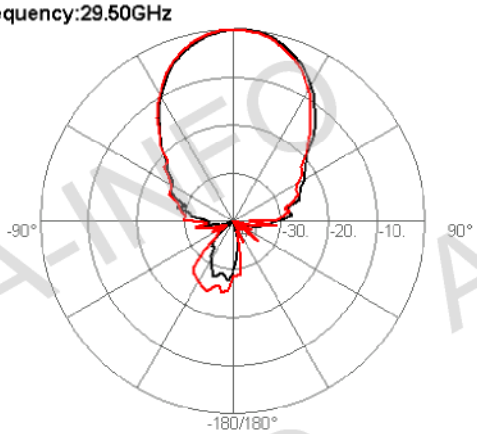
Frequency:29.00GHz



H-Plane
3dB Beamwidth(deg):35.65

E-Plane
3dB Beamwidth(deg):35.58

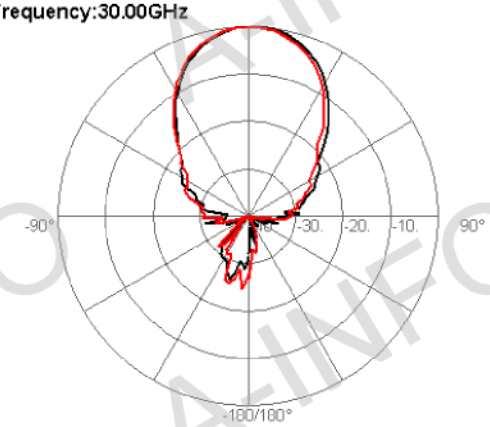
Frequency:29.50GHz



H-Plane
3dB Beamwidth(deg):34.57

E-Plane
3dB Beamwidth(deg):35.45

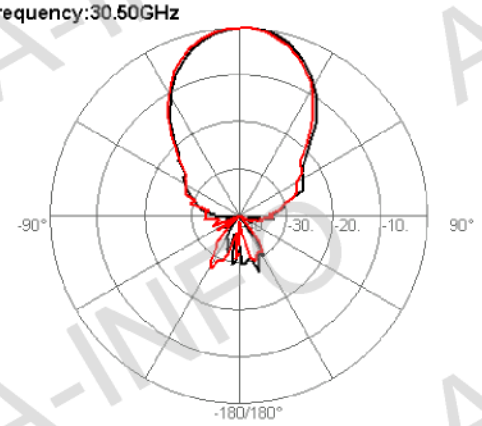
Frequency:30.00GHz



H-Plane
3dB Beamwidth(deg):34.73

E-Plane
3dB Beamwidth(deg):35.58

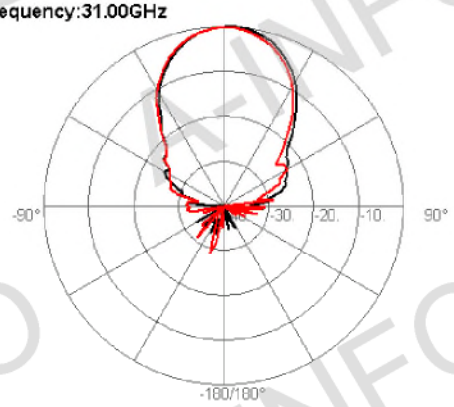
Frequency:30.50GHz



H-Plane
3dB Beamwidth(deg):33.80

E-Plane
3dB Beamwidth(deg):33.79

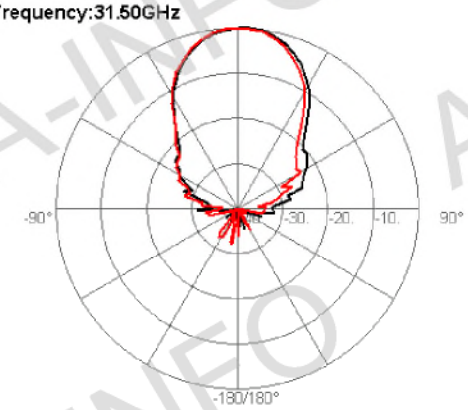
Frequency:31.00GHz



H-Plane
3dB Beamwidth(deg):32.64

E-Plane
3dB Beamwidth(deg):33.28

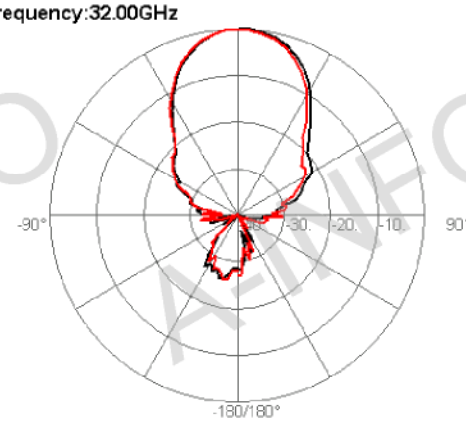
Frequency:31.50GHz



H-Plane
3dB Beamwidth(deg):32.04

E-Plane
3dB Beamwidth(deg):32.75

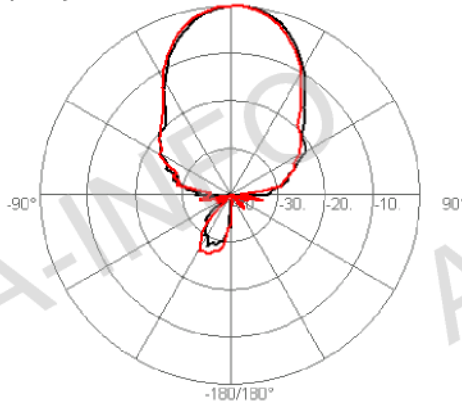
Frequency:32.00GHz



H-Plane
3dB Beamwidth(deg):31.82

E-Plane
3dB Beamwidth(deg):32.49

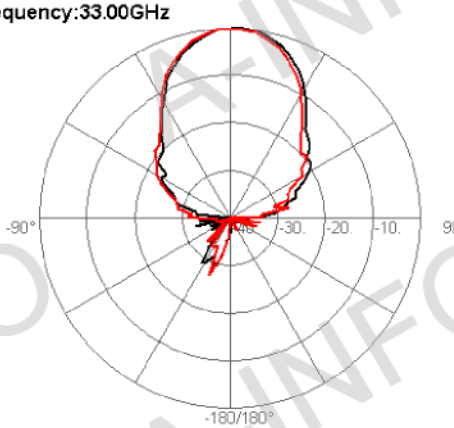
Frequency:32.50GHz



H-Plane
3dB Beamwidth(deg):31.51

E-Plane
3dB Beamwidth(deg):31.52

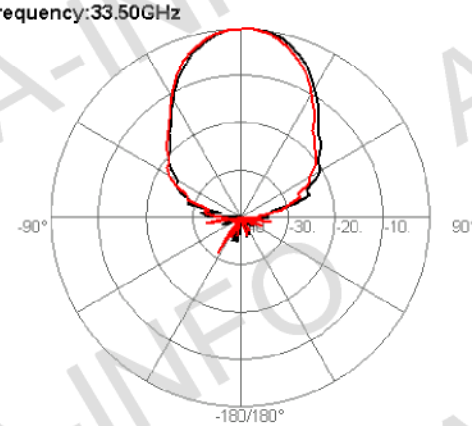
Frequency:33.00GHz



H-Plane
3dB Beamwidth(deg):31.80

E-Plane
3dB Beamwidth(deg):32.32

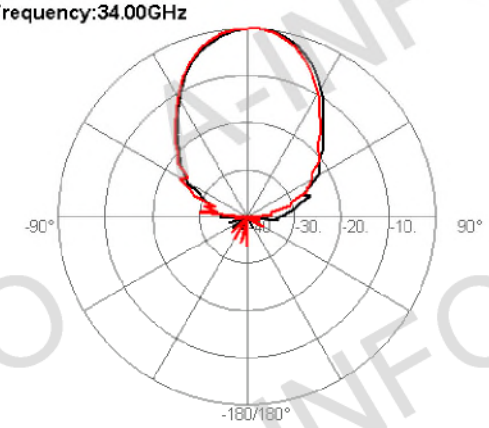
Frequency:33.50GHz



H-Plane
3dB Beamwidth(deg):32.09

E-Plane
3dB Beamwidth(deg):32.54

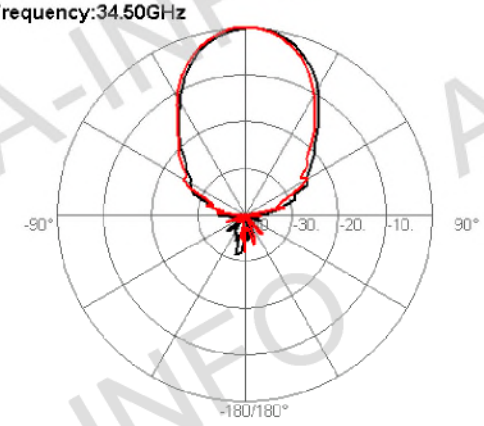
Frequency:34.00GHz



H-Plane
3dB Beamwidth(deg):32.56

E-Plane
3dB Beamwidth(deg):32.42

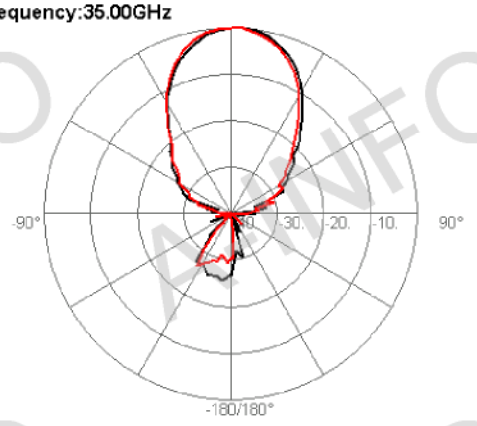
Frequency:34.50GHz



H-Plane
3dB Beamwidth(deg):32.05

E-Plane
3dB Beamwidth(deg):32.17

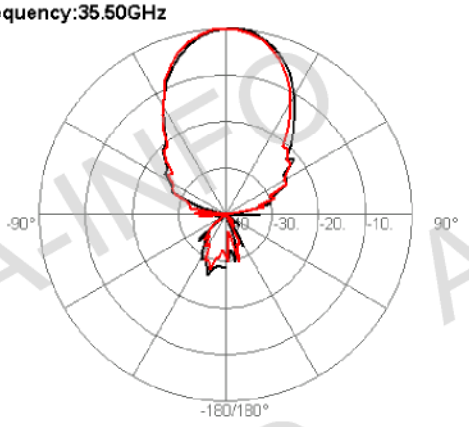
Frequency:35.00GHz



H-Plane
3dB Beamwidth(deg):31.19

E-Plane
3dB Beamwidth(deg):31.22

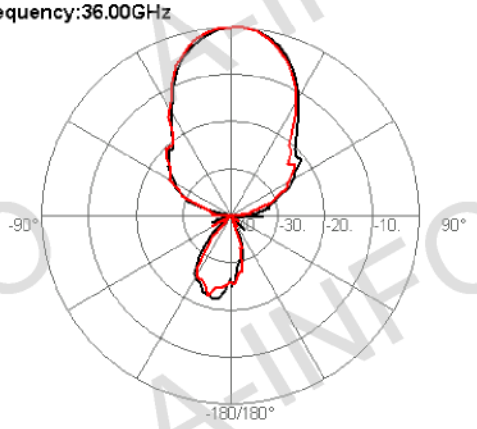
Frequency:35.50GHz



H-Plane
3dB Beamwidth(deg):29.71

E-Plane
3dB Beamwidth(deg):30.17

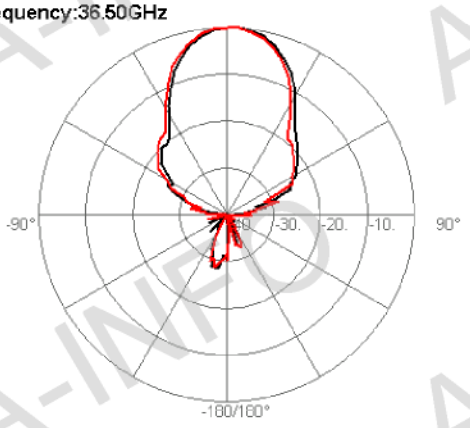
Frequency:36.00GHz



H-Plane
3dB Beamwidth(deg):29.26

E-Plane
3dB Beamwidth(deg):28.93

Frequency:36.50GHz



H-Plane
3dB Beamwidth(deg):28.59

E-Plane
3dB Beamwidth(deg):28.70

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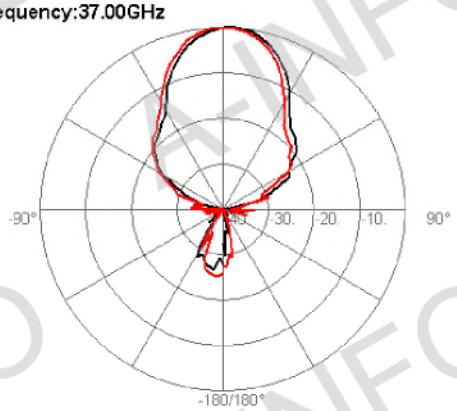
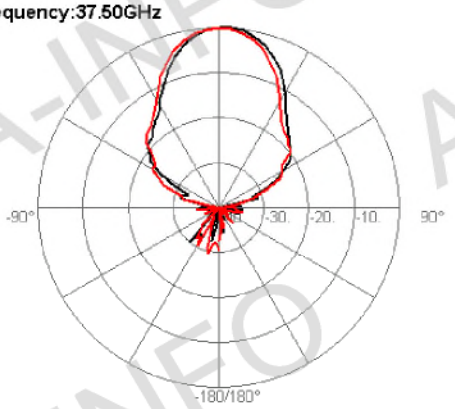
Frequency:37.00GHz



H-Plane
3dB Beamwidth(deg):28.36

E-Plane
3dB Beamwidth(deg):28.40

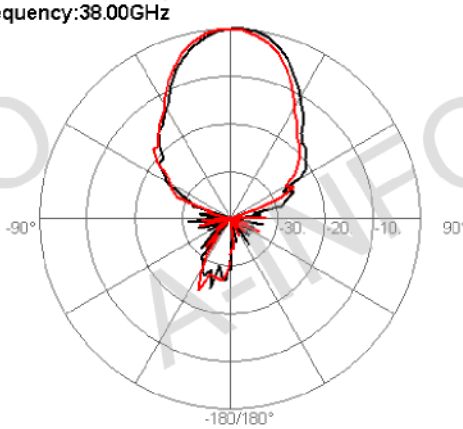
Frequency:37.50GHz



H-Plane
3dB Beamwidth(deg):27.76

E-Plane
3dB Beamwidth(deg):28.61

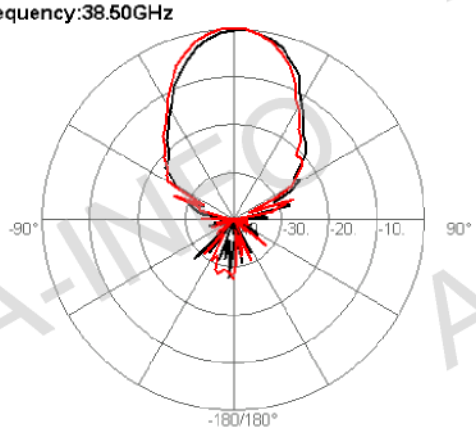
Frequency:38.00GHz



H-Plane
3dB Beamwidth(deg):28.43

E-Plane
3dB Beamwidth(deg):29.18

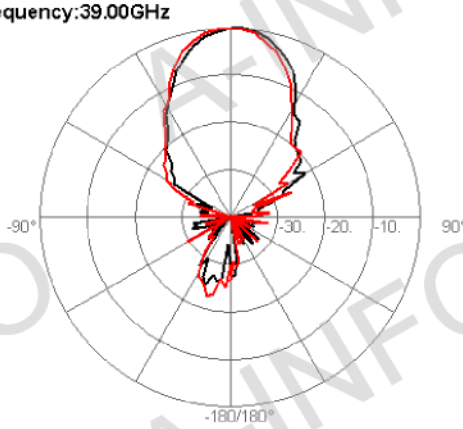
Frequency:38.50GHz



H-Plane
3dB Beamwidth(deg):29.02

E-Plane
3dB Beamwidth(deg):28.30

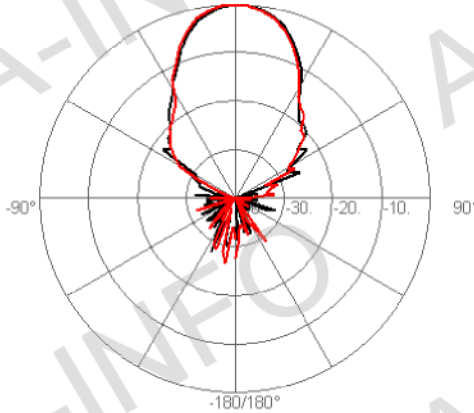
Frequency:39.00GHz



H-Plane
3dB Beamwidth(deg):28.19

E-Plane
3dB Beamwidth(deg):28.09

Frequency:39.50GHz



H-Plane
3dB Beamwidth(deg):27.61

E-Plane
3dB Beamwidth(deg):27.95

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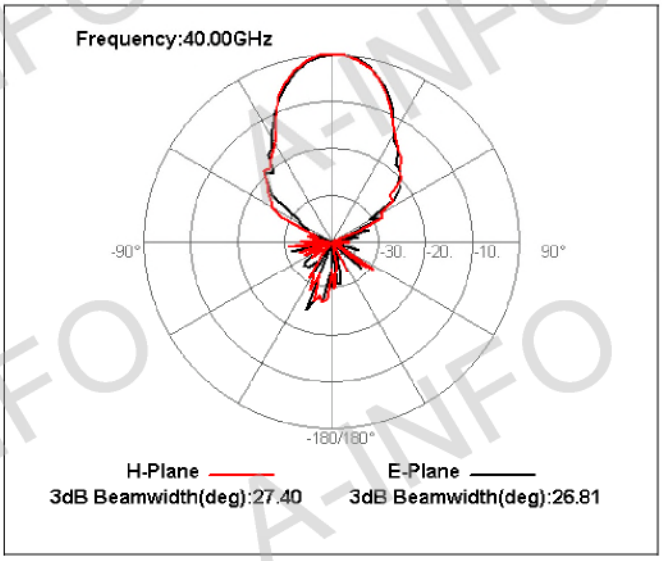
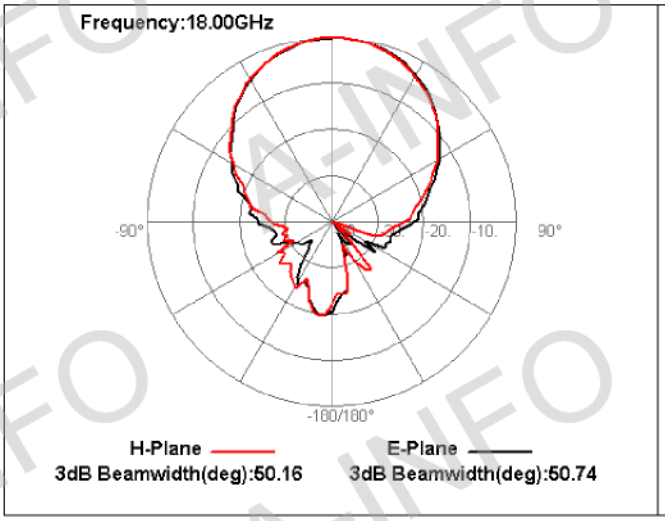
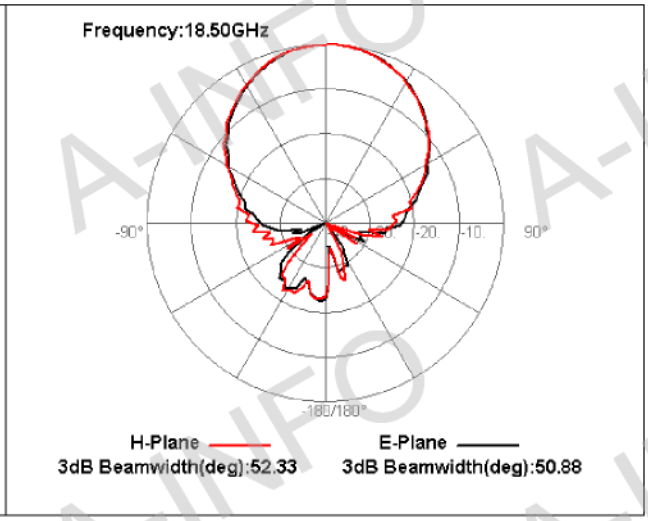

Frequency:40.00GHz
-90°
-30.
-20.
-10.
90°
-180/180°
H-Plane
3dB Beamwidth(deg):27.40
E-Plane
3dB Beamwidth(deg):26.81

RHCP

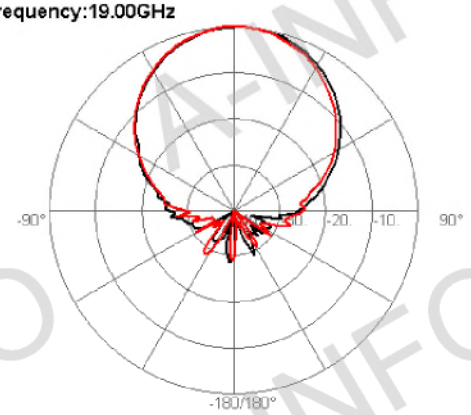

Frequency:18.00GHz
-90°
-20.
-10.
90°
-180/180°
H-Plane
3dB Beamwidth(deg):50.16
E-Plane
3dB Beamwidth(deg):50.74


Frequency:18.50GHz
-90°
-20.
-10.
90°
-180/180°
H-Plane
3dB Beamwidth(deg):52.33
E-Plane
3dB Beamwidth(deg):50.88

A-INFO

LB-SJ-180400-P03
18-40GHz Dual Circular Pol. Horn Antenna

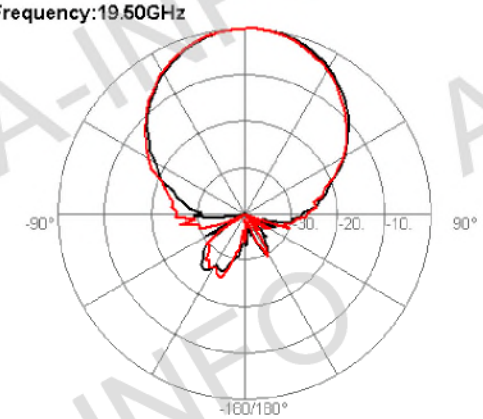
Frequency:19.00GHz



H-Plane
3dB Beamwidth(deg):48.43

E-Plane
3dB Beamwidth(deg):50.12

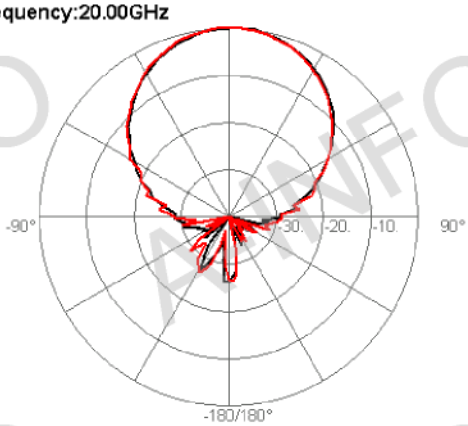
Frequency:19.50GHz



H-Plane
3dB Beamwidth(deg):47.88

E-Plane
3dB Beamwidth(deg):49.20

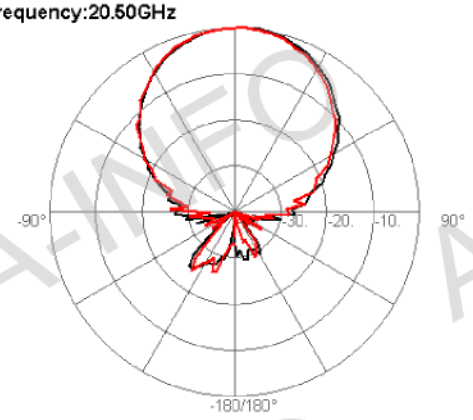
Frequency:20.00GHz



H-Plane
3dB Beamwidth(deg):49.23

E-Plane
3dB Beamwidth(deg):49.06

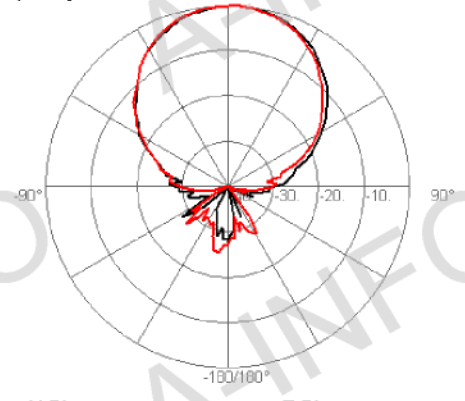
Frequency:20.50GHz



H-Plane
3dB Beamwidth(deg):49.25

E-Plane
3dB Beamwidth(deg):49.99

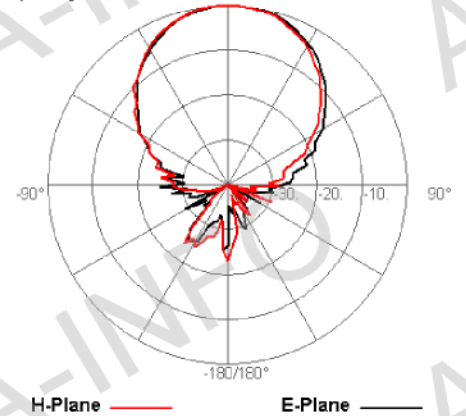
Frequency:21.00GHz



H-Plane
3dB Beamwidth(deg):47.11

E-Plane
3dB Beamwidth(deg):47.13

Frequency:21.50GHz



H-Plane
3dB Beamwidth(deg):47.93

E-Plane
3dB Beamwidth(deg):48.27

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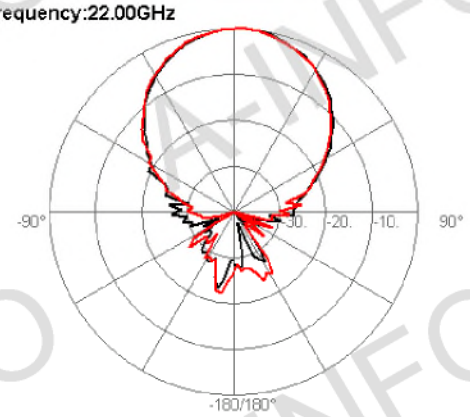
A-INFO

LB-SJ-180400-P03
18-40GHz Dual Circular Pol. Horn Antenna

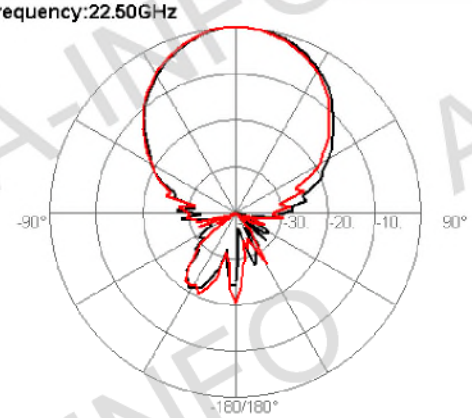
Frequency:22.00GHz



H-Plane
3dB Beamwidth(deg):45.49

E-Plane
3dB Beamwidth(deg):45.06

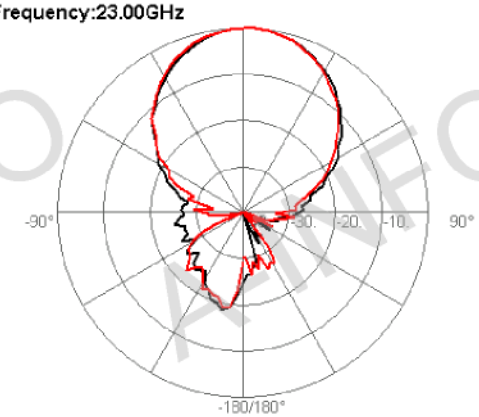
Frequency:22.50GHz



H-Plane
3dB Beamwidth(deg):44.20

E-Plane
3dB Beamwidth(deg):45.82

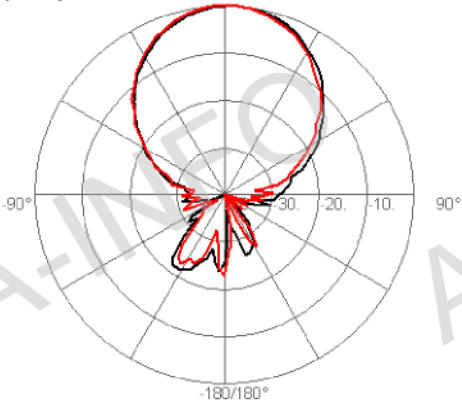
Frequency:23.00GHz



H-Plane
3dB Beamwidth(deg):43.90

E-Plane
3dB Beamwidth(deg):43.29

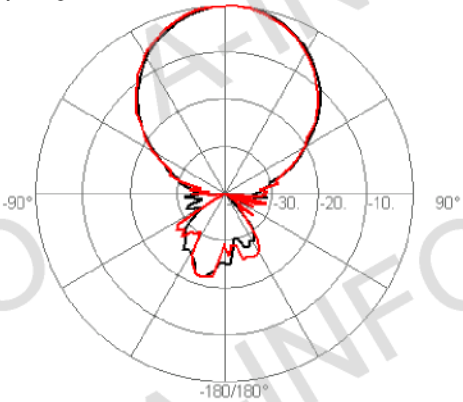
Frequency:23.50GHz



H-Plane
3dB Beamwidth(deg):43.98

E-Plane
3dB Beamwidth(deg):44.33

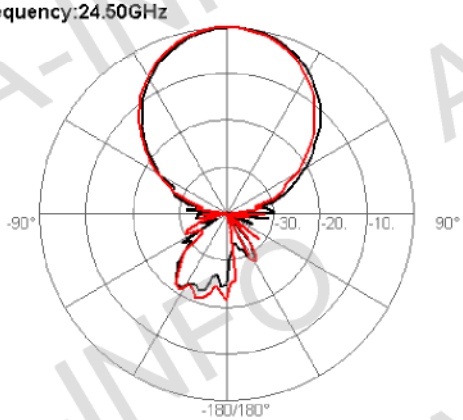
Frequency:24.00GHz



H-Plane
3dB Beamwidth(deg):42.77

E-Plane
3dB Beamwidth(deg):41.93

Frequency:24.50GHz



H-Plane
3dB Beamwidth(deg):42.33

E-Plane
3dB Beamwidth(deg):42.43

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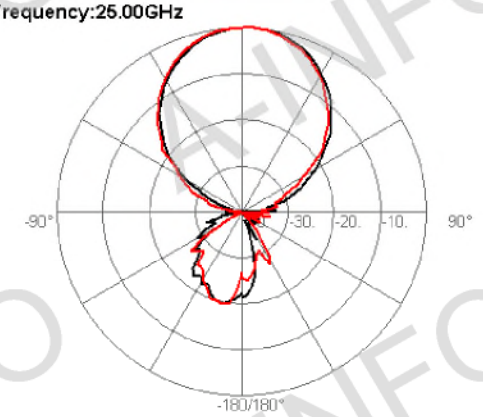
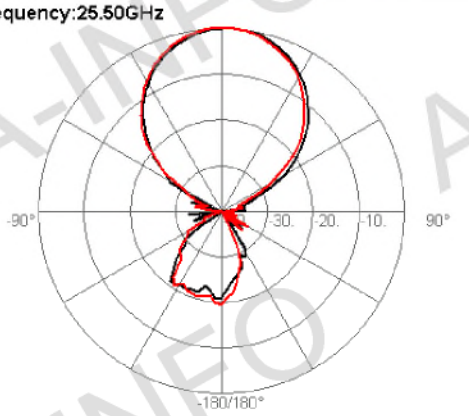
Frequency:25.00GHz



H-Plane
3dB Beamwidth(deg):41.16

E-Plane
3dB Beamwidth(deg):41.23

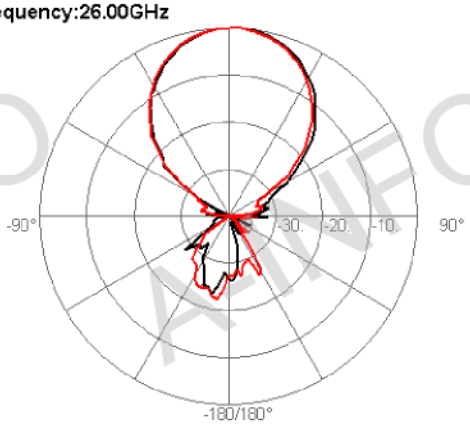
Frequency:25.50GHz



H-Plane
3dB Beamwidth(deg):39.93

E-Plane
3dB Beamwidth(deg):40.29

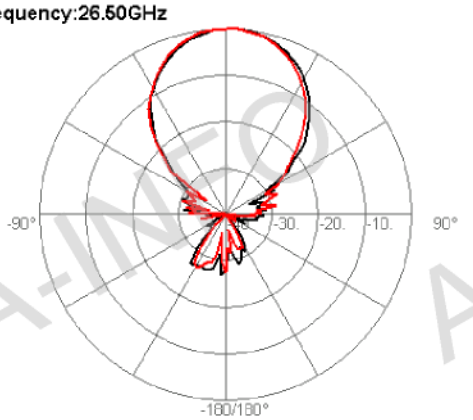
Frequency:26.00GHz



H-Plane
3dB Beamwidth(deg):38.65

E-Plane
3dB Beamwidth(deg):38.82

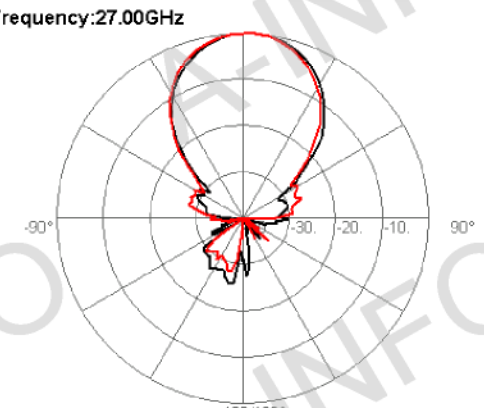
Frequency:26.50GHz



H-Plane
3dB Beamwidth(deg):37.75

E-Plane
3dB Beamwidth(deg):37.83

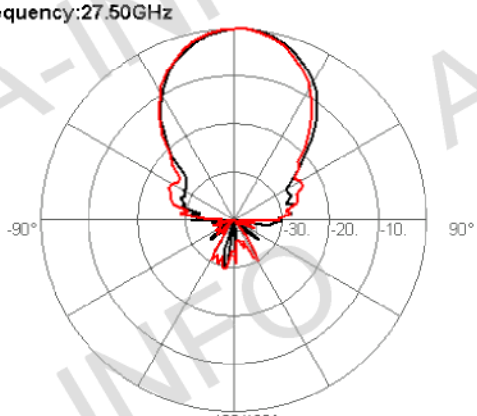
Frequency:27.00GHz



H-Plane
3dB Beamwidth(deg):36.25

E-Plane
3dB Beamwidth(deg):36.60

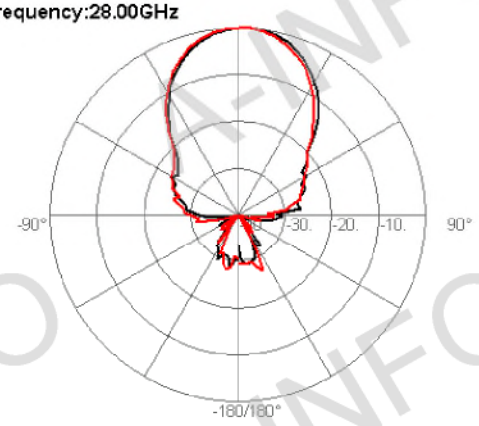
Frequency:27.50GHz



H-Plane
3dB Beamwidth(deg):34.76

E-Plane
3dB Beamwidth(deg):35.20

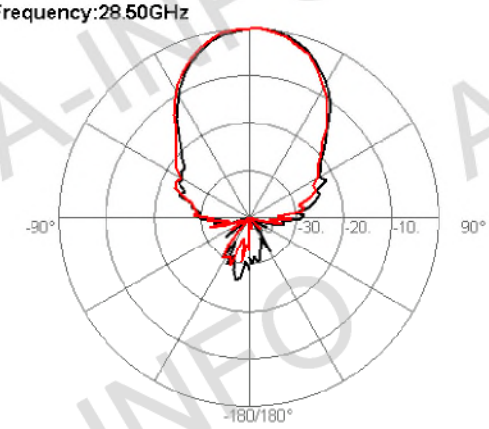
Frequency:28.00GHz



H-Plane
3dB Beamwidth(deg):34.17

E-Plane
3dB Beamwidth(deg):35.11

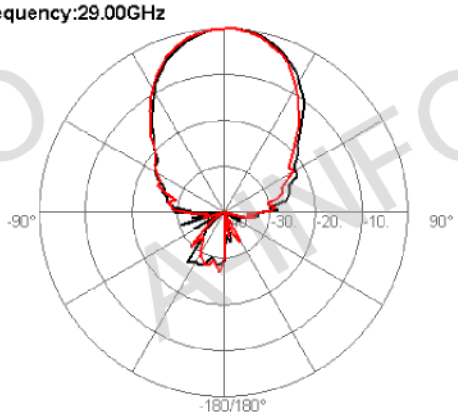
Frequency:28.50GHz



H-Plane
3dB Beamwidth(deg):35.37

E-Plane
3dB Beamwidth(deg):35.52

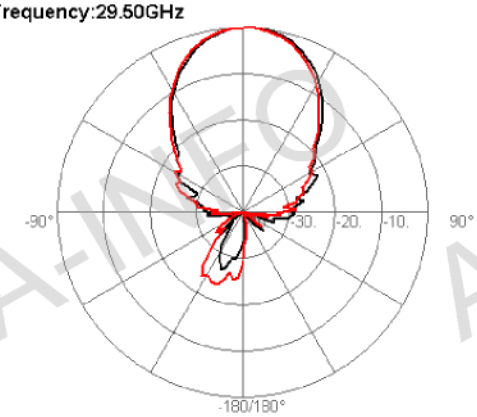
Frequency:29.00GHz



H-Plane
3dB Beamwidth(deg):35.93

E-Plane
3dB Beamwidth(deg):35.97

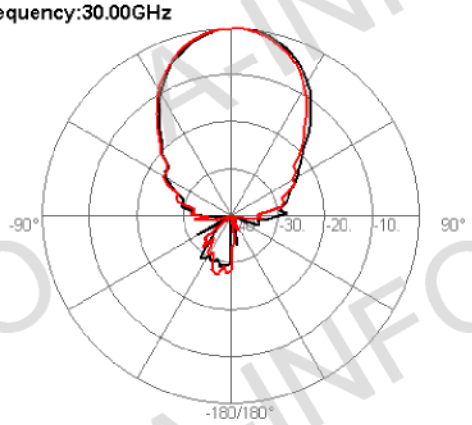
Frequency:29.50GHz



H-Plane
3dB Beamwidth(deg):35.23

E-Plane
3dB Beamwidth(deg):35.71

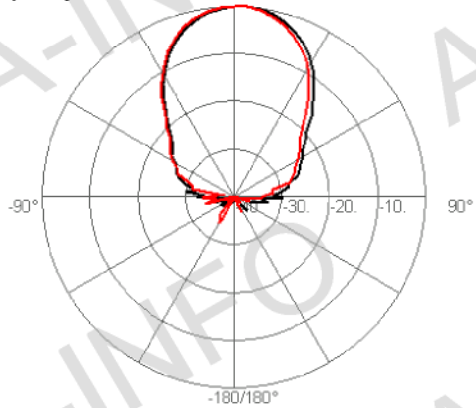
Frequency:30.00GHz



H-Plane
3dB Beamwidth(deg):34.98

E-Plane
3dB Beamwidth(deg):35.34

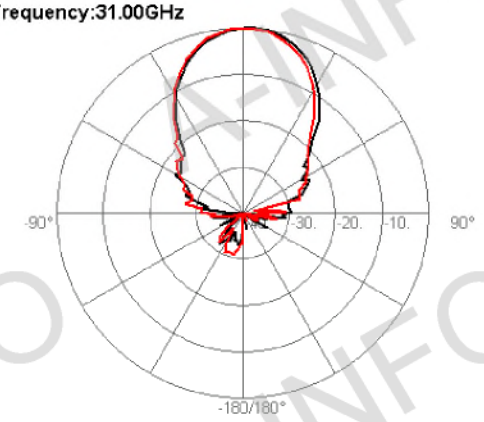
Frequency:30.50GHz



H-Plane
3dB Beamwidth(deg):34.01

E-Plane
3dB Beamwidth(deg):34.16

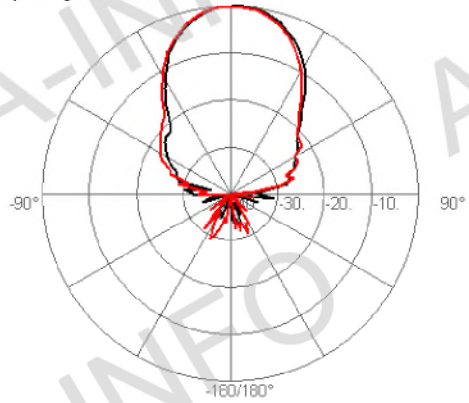
Frequency:31.00GHz



H-Plane
3dB Beamwidth(deg):32.82

E-Plane
3dB Beamwidth(deg):34.01

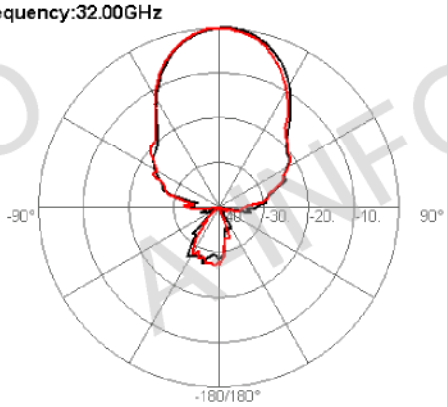
Frequency:31.50GHz



H-Plane
3dB Beamwidth(deg):32.21

E-Plane
3dB Beamwidth(deg):32.66

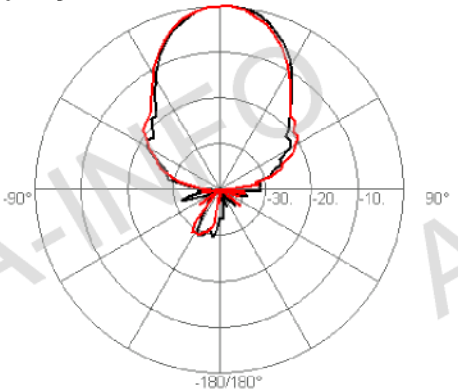
Frequency:32.00GHz



H-Plane
3dB Beamwidth(deg):31.25

E-Plane
3dB Beamwidth(deg):32.61

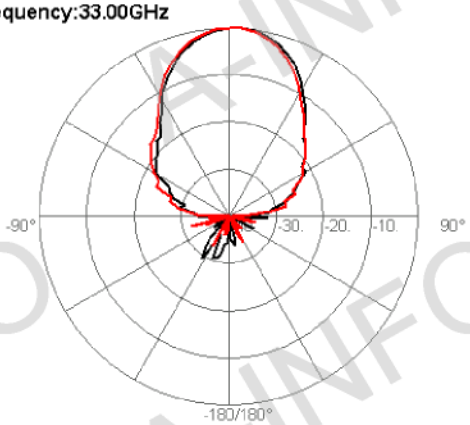
Frequency:32.50GHz



H-Plane
3dB Beamwidth(deg):31.39

E-Plane
3dB Beamwidth(deg):32.05

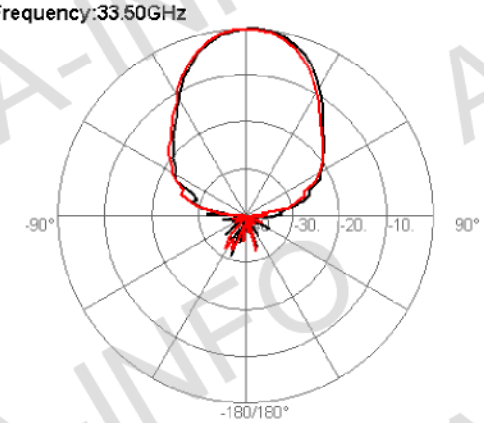
Frequency:33.00GHz



H-Plane
3dB Beamwidth(deg):31.91

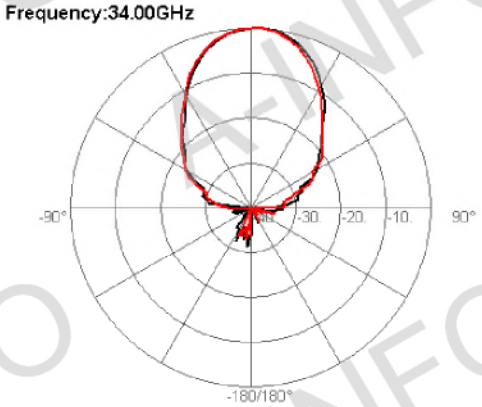
E-Plane
3dB Beamwidth(deg):32.20

Frequency:33.50GHz



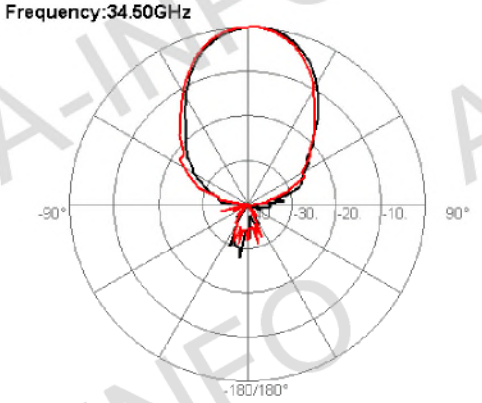
H-Plane
3dB Beamwidth(deg):31.96

E-Plane
3dB Beamwidth(deg):32.75



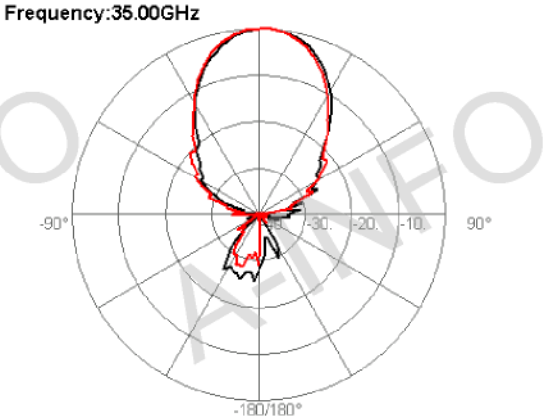
H-Plane
3dB Beamwidth(deg):31.90

E-Plane
3dB Beamwidth(deg):32.70



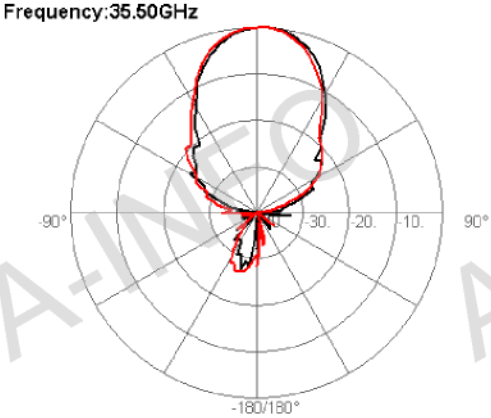
H-Plane
3dB Beamwidth(deg):31.75

E-Plane
3dB Beamwidth(deg):32.11



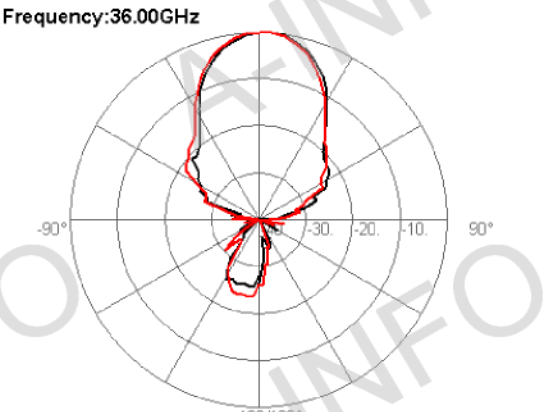
H-Plane
3dB Beamwidth(deg):30.97

E-Plane
3dB Beamwidth(deg):31.37



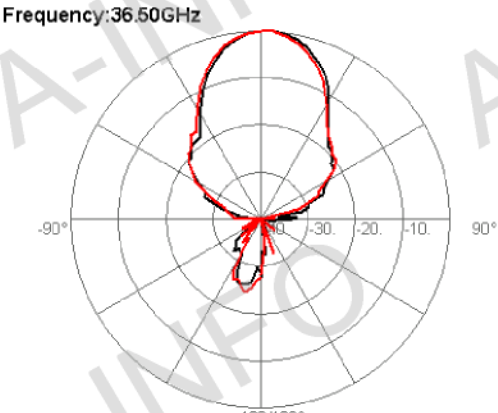
H-Plane
3dB Beamwidth(deg):30.13

E-Plane
3dB Beamwidth(deg):29.99



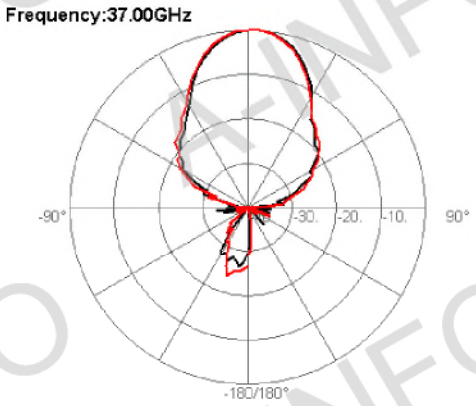
H-Plane
3dB Beamwidth(deg):29.35

E-Plane
3dB Beamwidth(deg):29.37



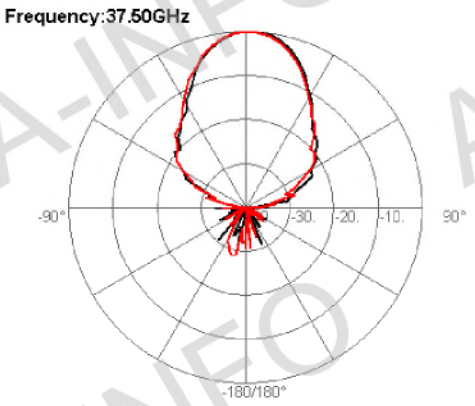
H-Plane
3dB Beamwidth(deg):28.12

E-Plane
3dB Beamwidth(deg):28.94



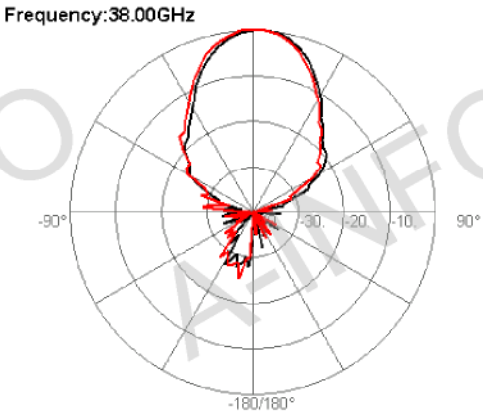
H-Plane
3dB Beamwidth(deg):28.86

E-Plane
3dB Beamwidth(deg):28.96



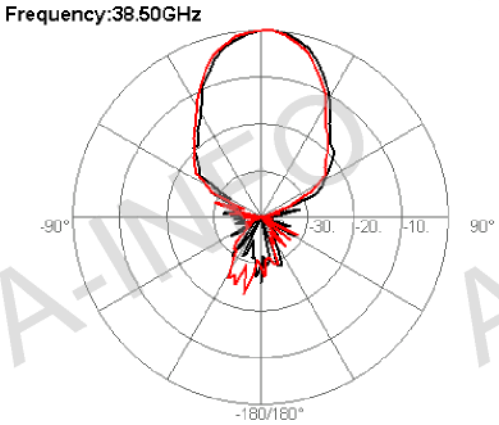
H-Plane
3dB Beamwidth(deg):27.71

E-Plane
3dB Beamwidth(deg):28.30



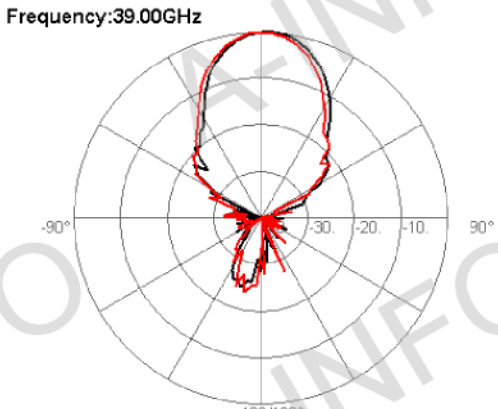
H-Plane
3dB Beamwidth(deg):29.40

E-Plane
3dB Beamwidth(deg):29.06



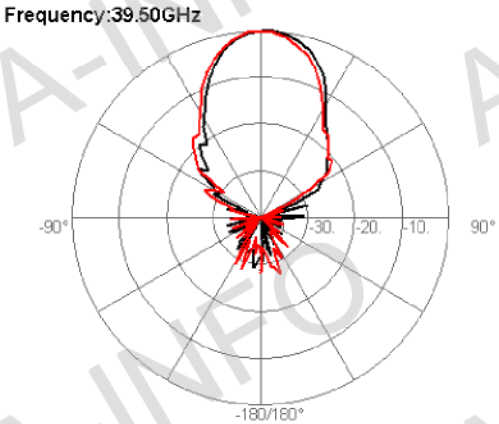
H-Plane
3dB Beamwidth(deg):28.28

E-Plane
3dB Beamwidth(deg):28.88



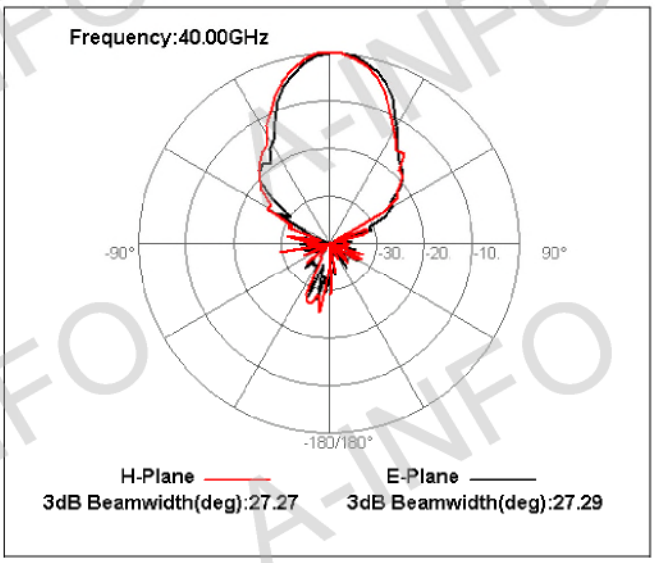
H-Plane
3dB Beamwidth(deg):27.46

E-Plane
3dB Beamwidth(deg):28.37



H-Plane
3dB Beamwidth(deg):26.34

E-Plane
3dB Beamwidth(deg):28.36


Frequency:40.00GHz
-90°
-30.
-20
-10.
90°
-180/180°
H-Plane
3dB Beamwidth(deg):27.27
E-Plane
3dB Beamwidth(deg):27.29