

For reference only. See data sheet for the detailed specifications.

## Technical Specification



Frequency Range(GHz)	0.7 – 6.0
Gain	Linear: 8dBi Typ.
	Circular: 8dBic Typ.
Polarization	H,V, LHCP & RHCP Switchable
Axial Ratio(dB)	2.0 Typ.
	6.0 Max.
VSWR	2.5:1 Typ.
Connector	SMA-Female
Power Handling(W CW)	20 Max. (Cold Switching)
Power Supply	12V DC
Control	TTL
Control Connector	Circular 10-Pin
Material	Al
Finish	Chemical Conversion Coating and Nickel Plated
Size(mm)	310 x 310 x 535
Net Weight(Kg)	5.85 Around

PATENT ID (US)

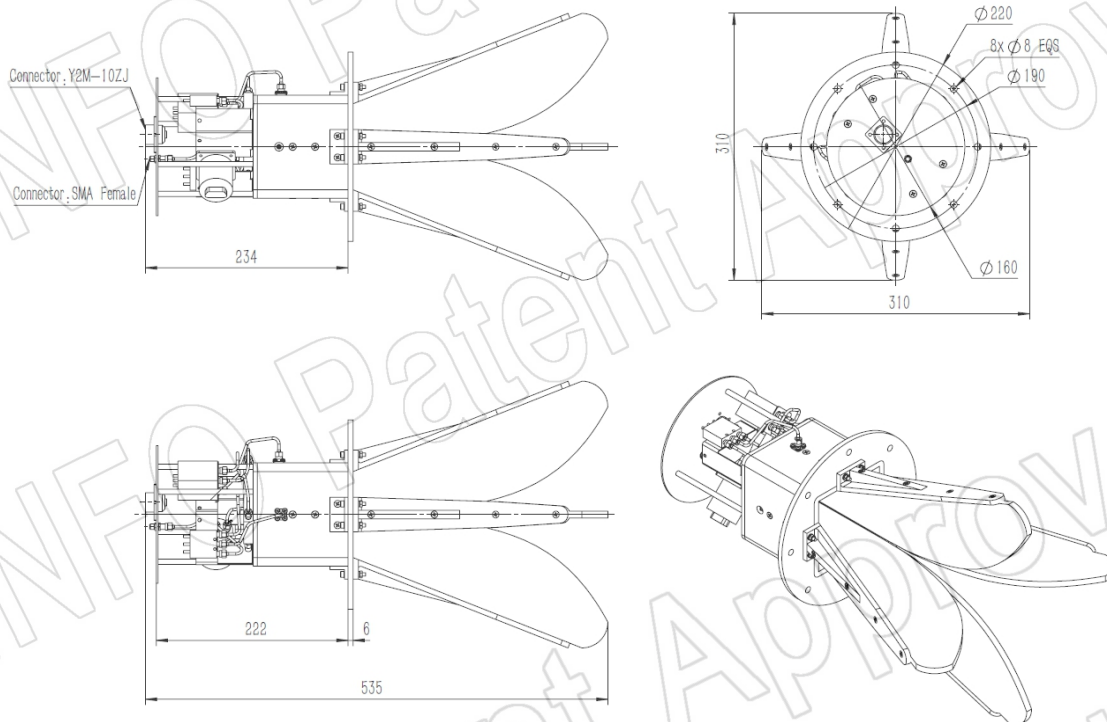
US 11139578

PATENT ID (China)

ZL201822143669.2

## Outline Drawing (Size: mm)

SMA Female Output (P/N: LB-OSJ-0760-P04)



AINFO Inc.

China(Beijing):  
China(Chengdu):  
USA :

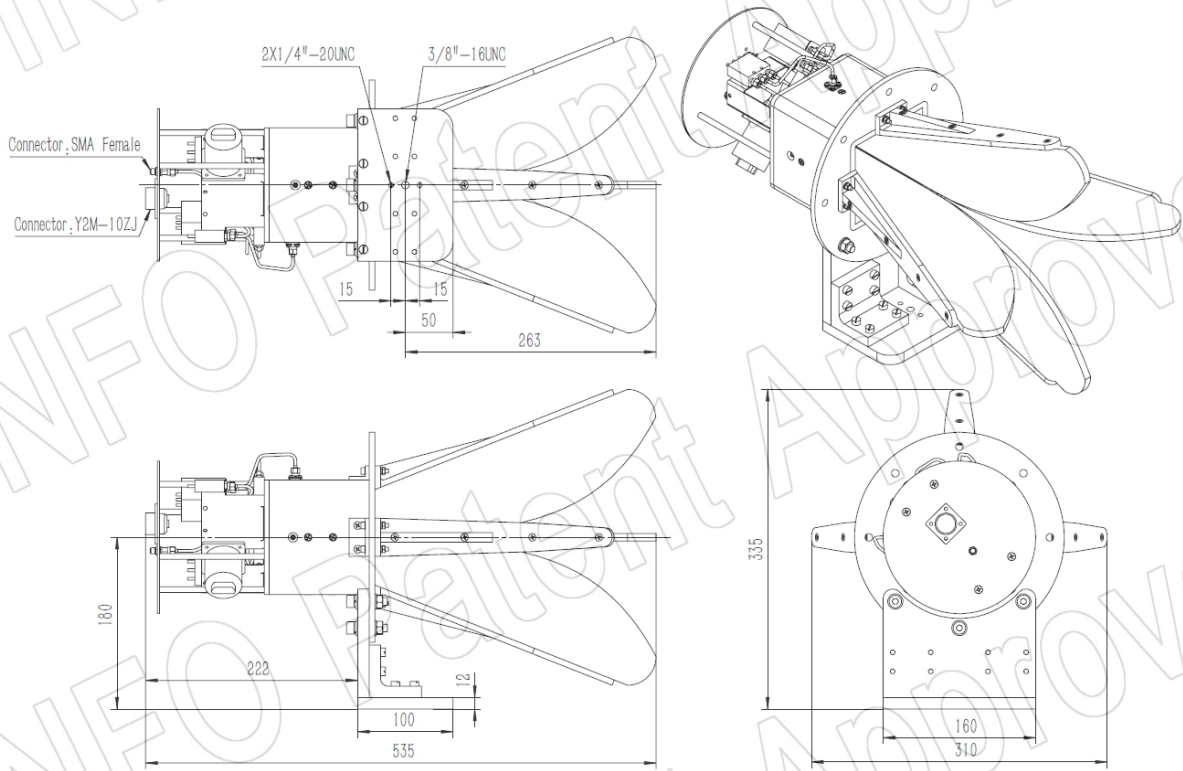
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(+86) 10-6266-7327  
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Email: sales@ainfoinc.com

SMA-Female Output with L Type Mounting Bracket (Option, P/N: LB-OSJ-0760-L)



## Standard Configuration

1. Antenna
2. Control Cable, 5m, with Circular 10-Pin connector on each side.

## Optional Accessories

1. Nonmetallic L type mounting bracket, for A-INFO tripod
2. Aluminum Tripod, 15Kg
3. Wooden Tripod, 15Kg

## Control Description

### 1. Pin Description

Pin Number	Name	Description
1	NC	
2	+12V	+12V DC Supply input
3	GND	Ground
4	H	Polarization control :Horizontal
5	V	Polarization control :Vertical
6	C/L	Polarization control :Circular or Linear
7	R	Polarization control :RHCP
8	L	Polarization control :LHCP
9	NC	
10	NC	

### 2. Function Table

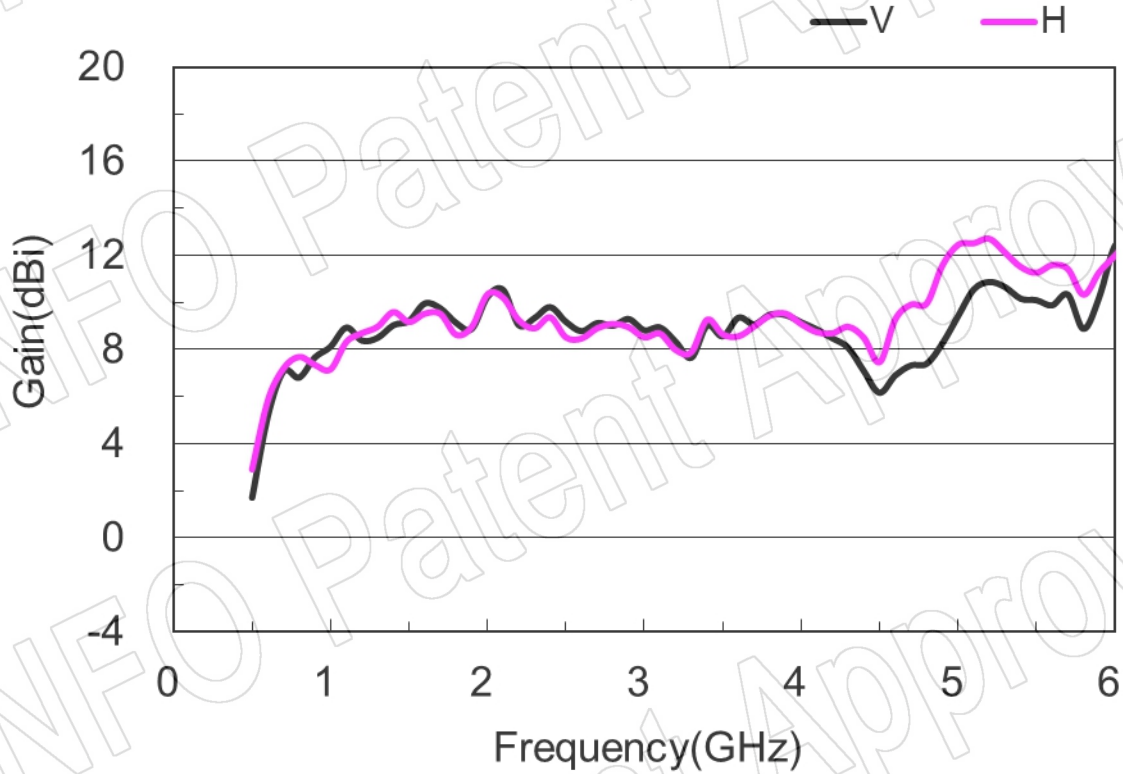
Pin \ Pol.	4	5	6	7	8
V	1*	0	0	0	0
H	0	1*	0	0	0
RHCP	0	0	1*	1	0
LHCP	0	0	1*	0	1

\* TTL level should be keep at “1” (high level)

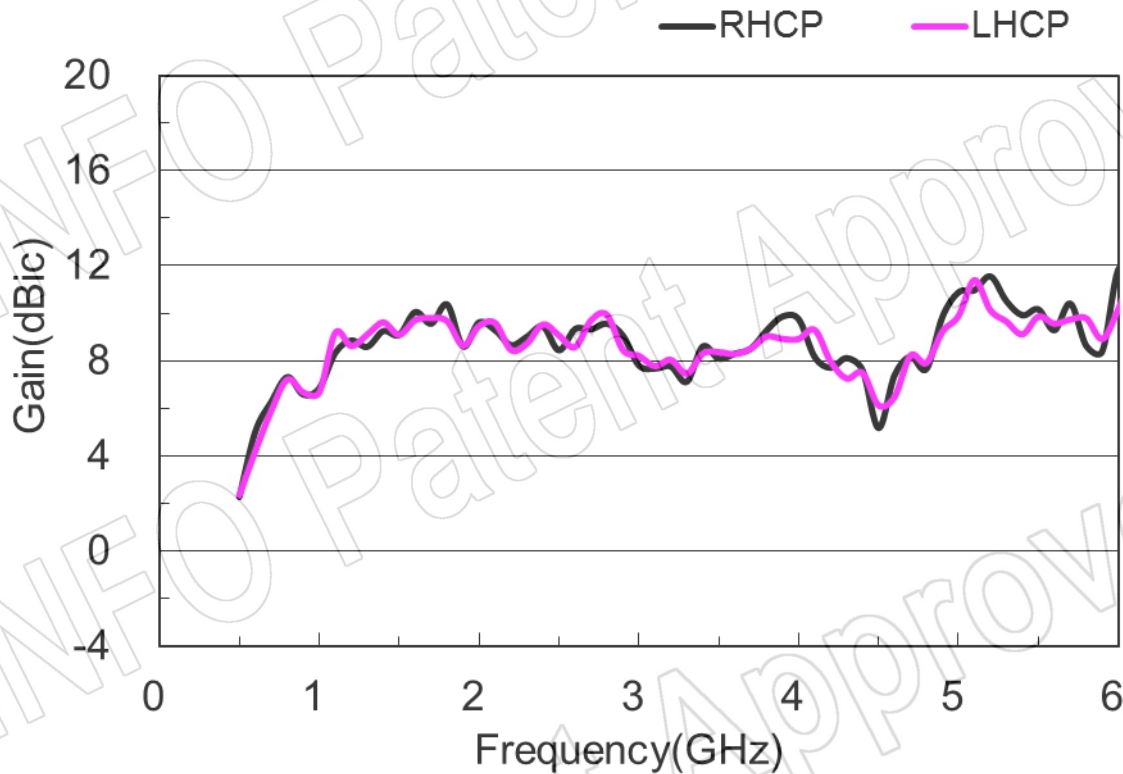
## Test Results

### 1. Gain

Linear Gain

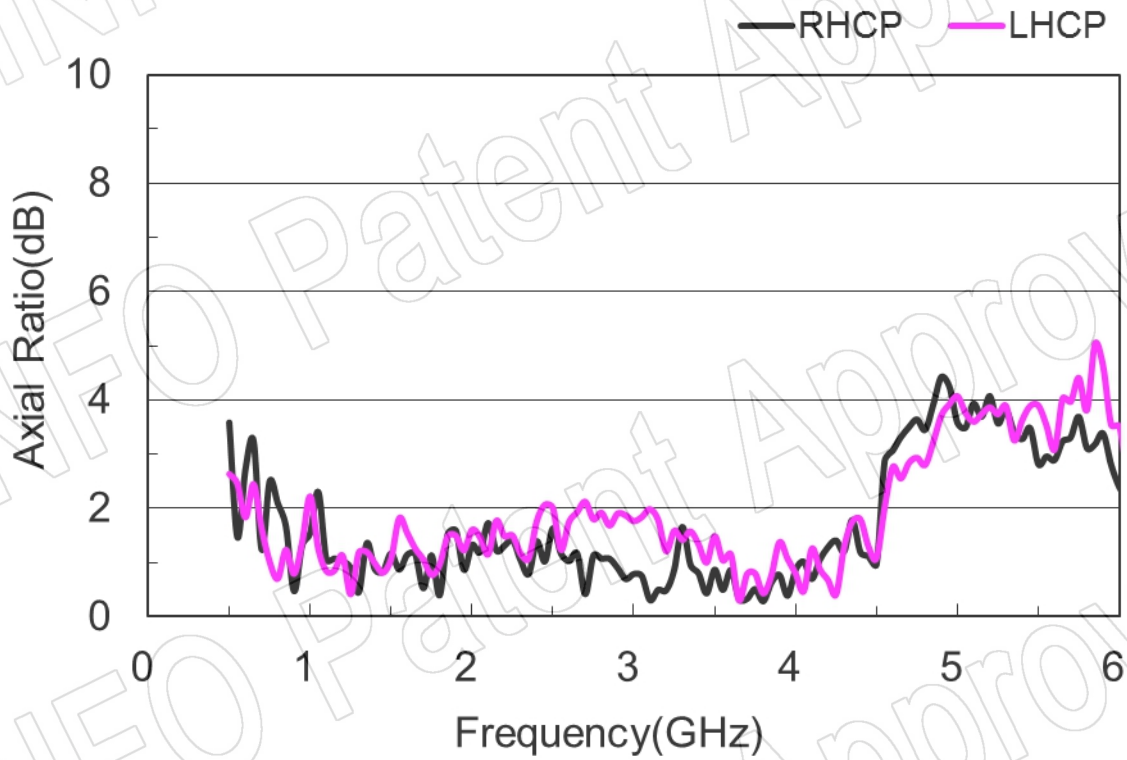


Circular Gain

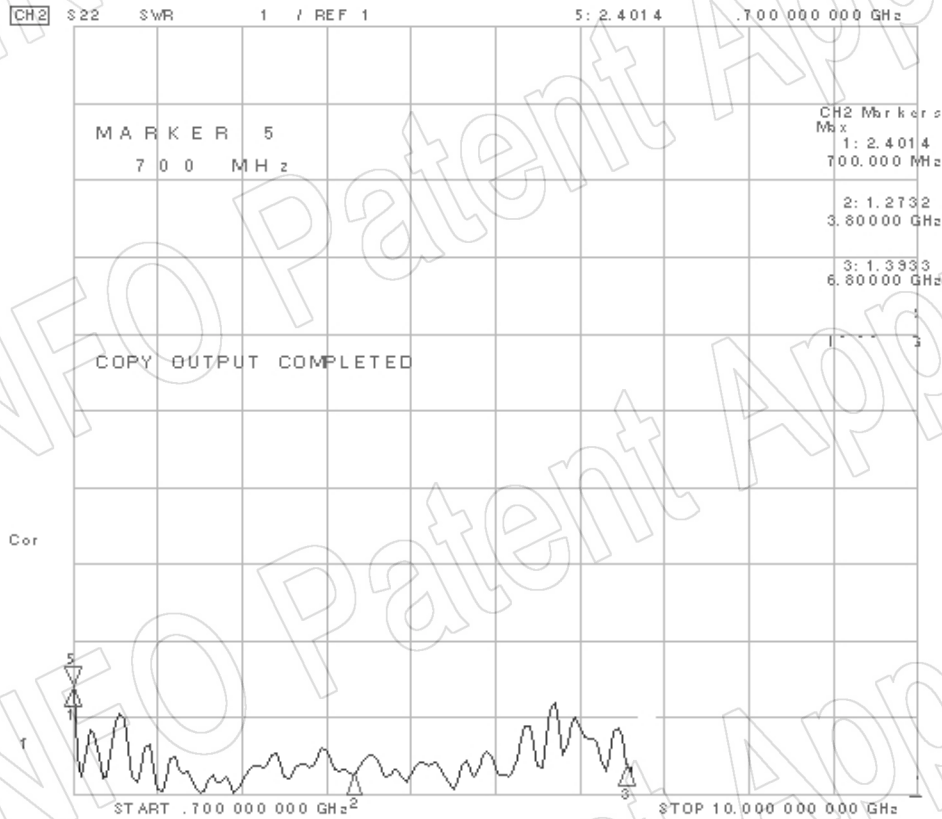




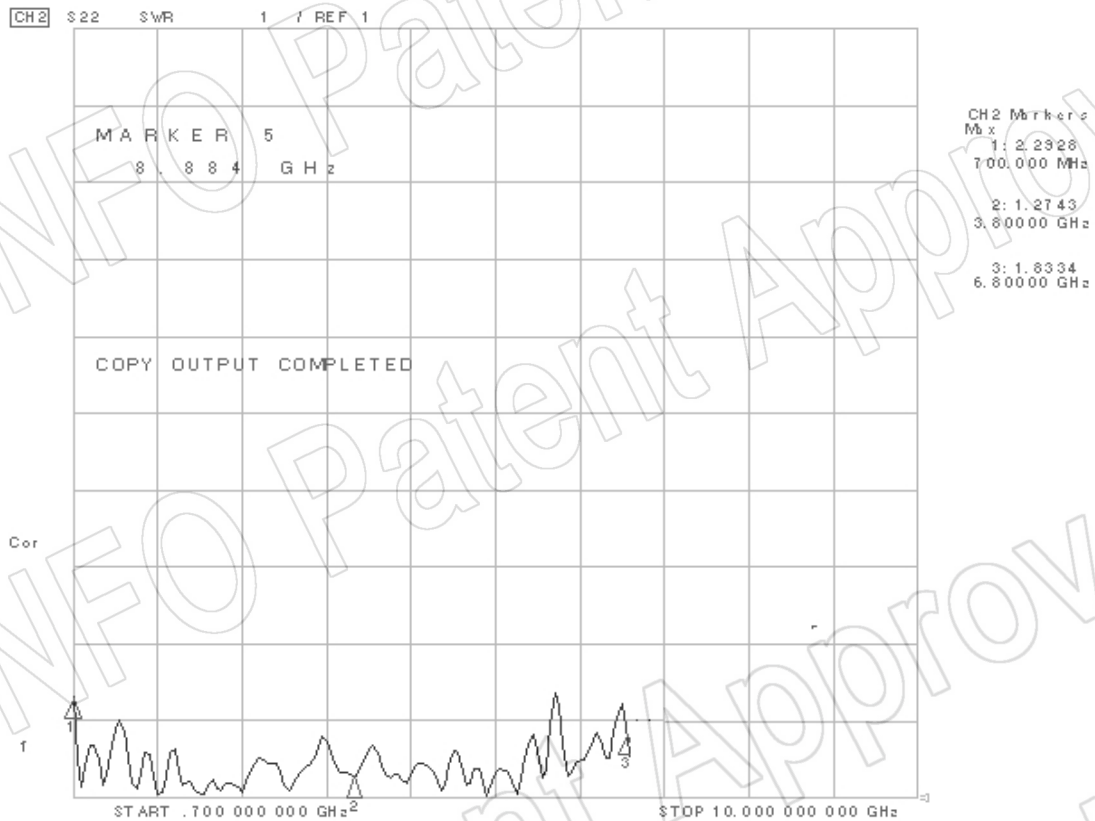
## 2. Axial Ratio



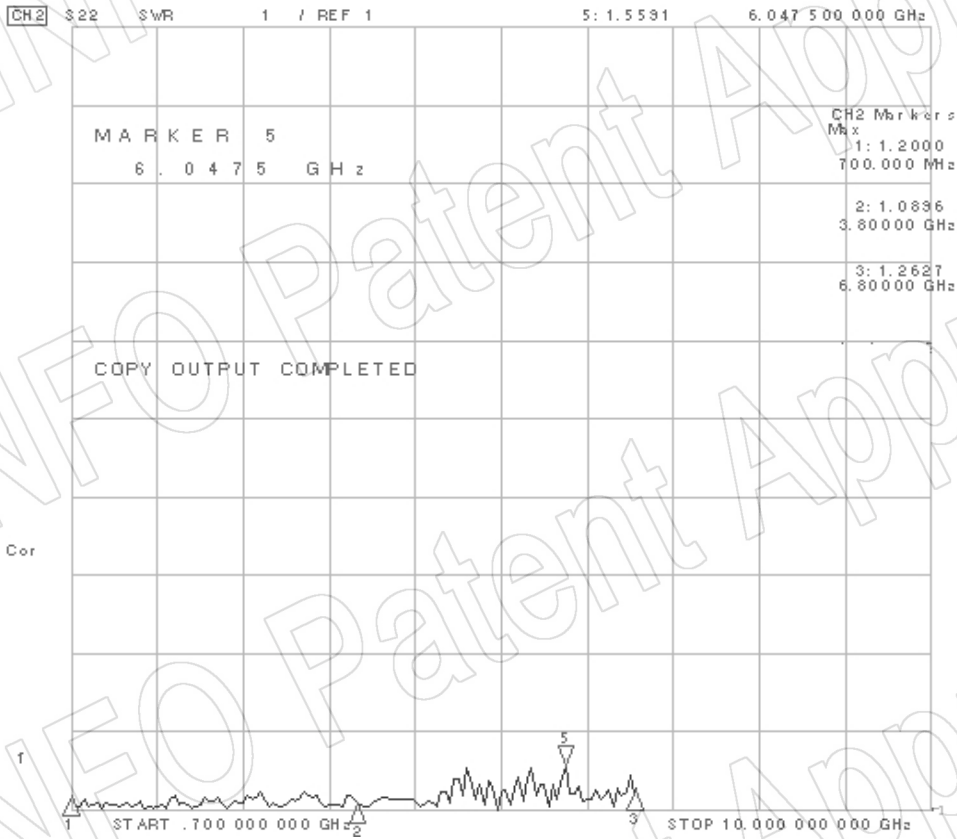
### 3. VSWR H Polarization



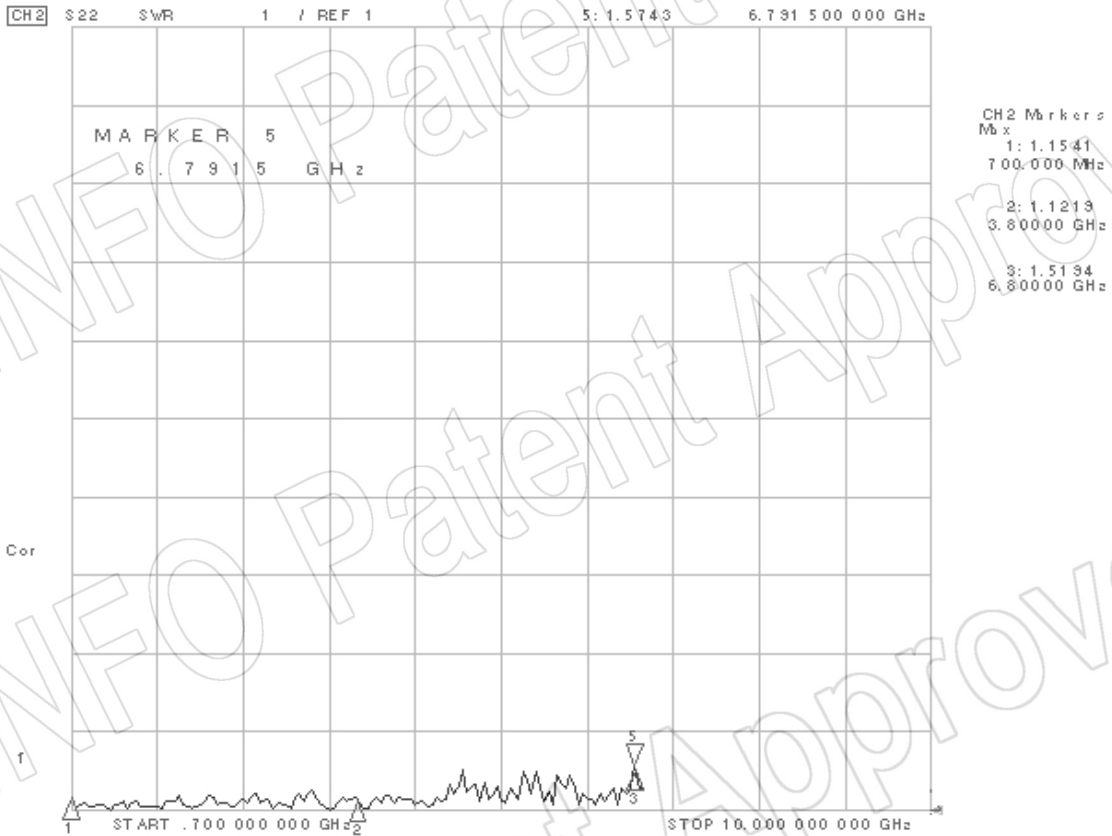
### V Polarization



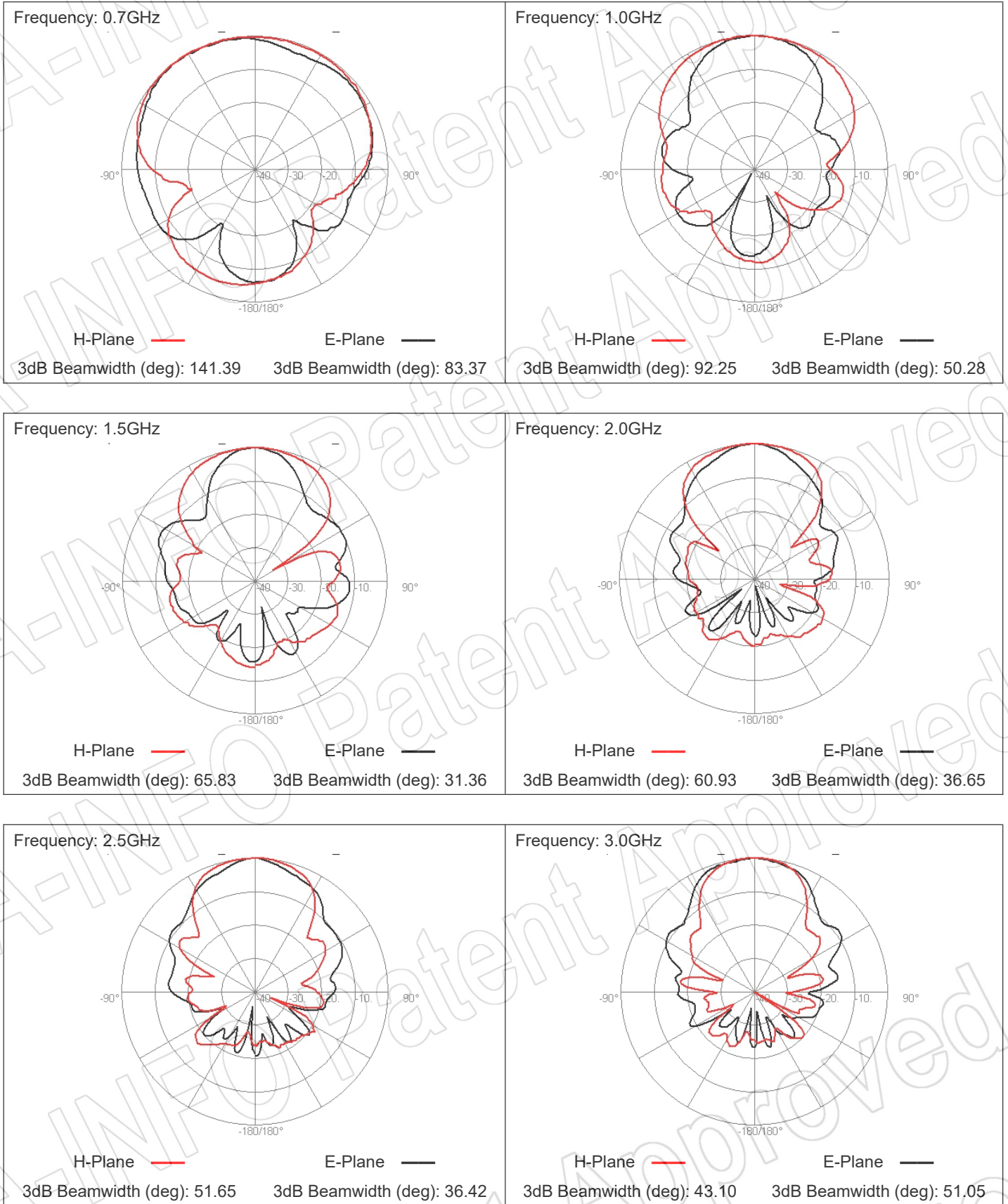
## LHCP



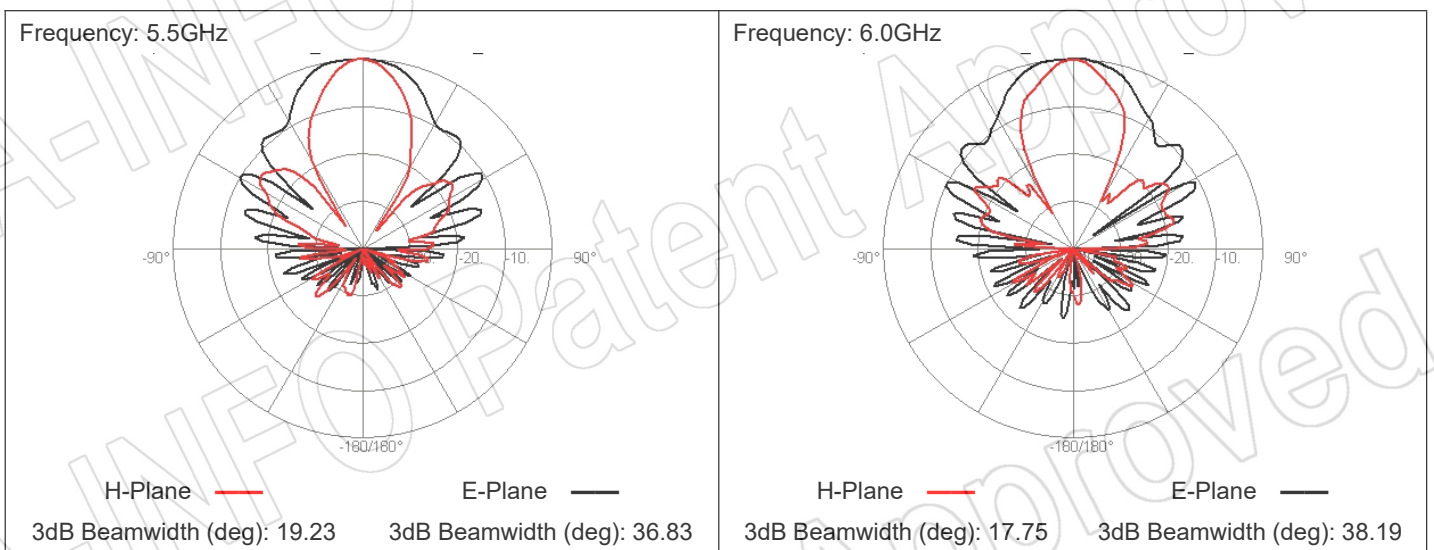
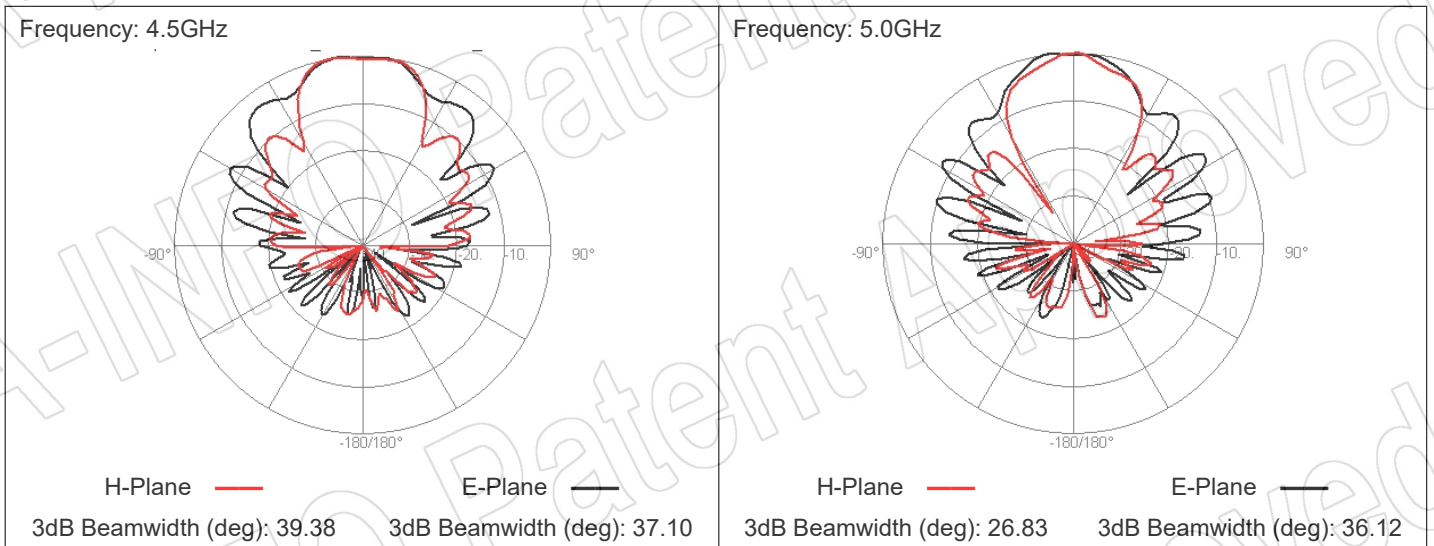
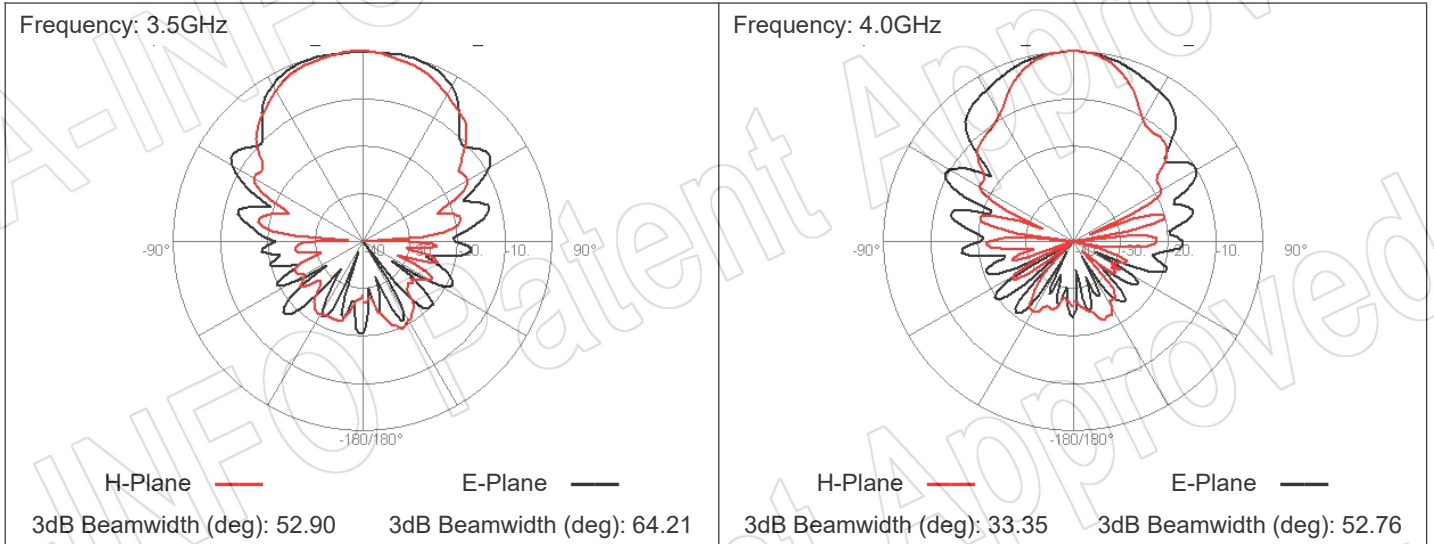
## RHCP



## 4. Pattern Linear Polarization

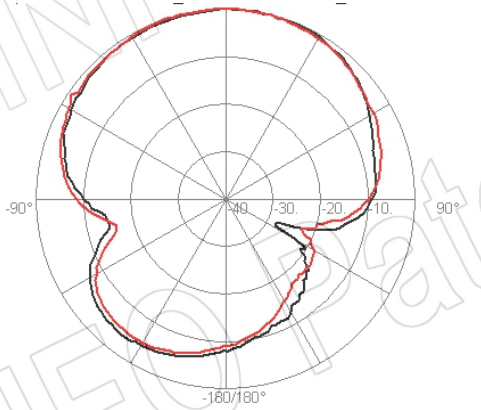






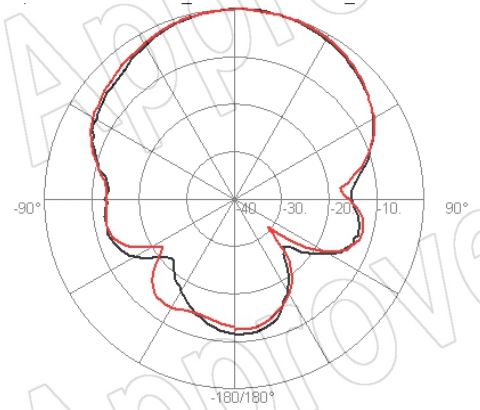
LHCP

Frequency: 0.7GHz



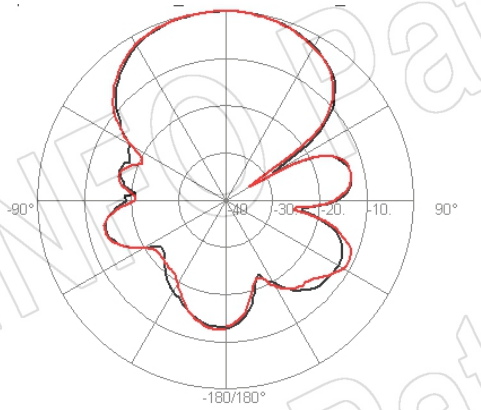
H-Plane — 3dB Beamwidth (deg): 118.25  
 E-Plane — 3dB Beamwidth (deg): 113.96

Frequency: 1.0GHz



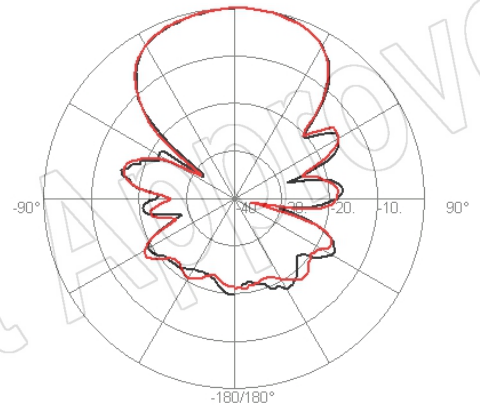
H-Plane — 3dB Beamwidth (deg): 82.90  
 E-Plane — 3dB Beamwidth (deg): 76.12

Frequency: 1.5GHz



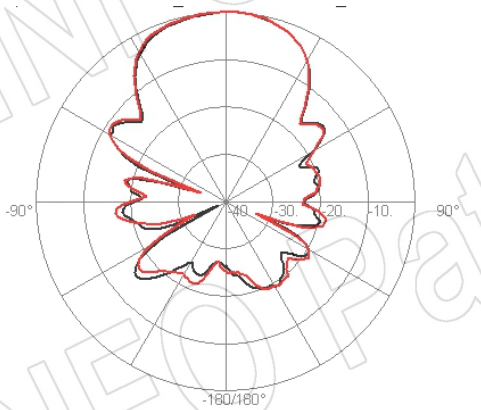
H-Plane — 3dB Beamwidth (deg): 66.12  
 E-Plane — 3dB Beamwidth (deg): 65.76

Frequency: 2.0GHz



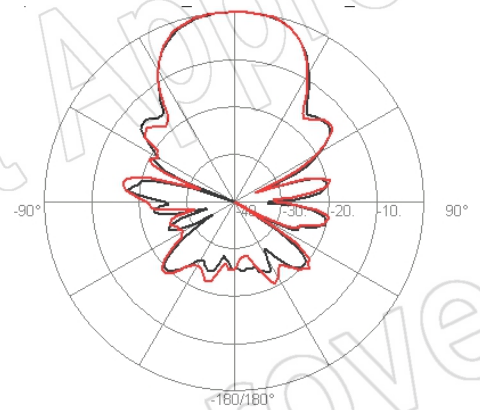
H-Plane — 3dB Beamwidth (deg): 59.97  
 E-Plane — 3dB Beamwidth (deg): 59.70

Frequency: 2.5GHz

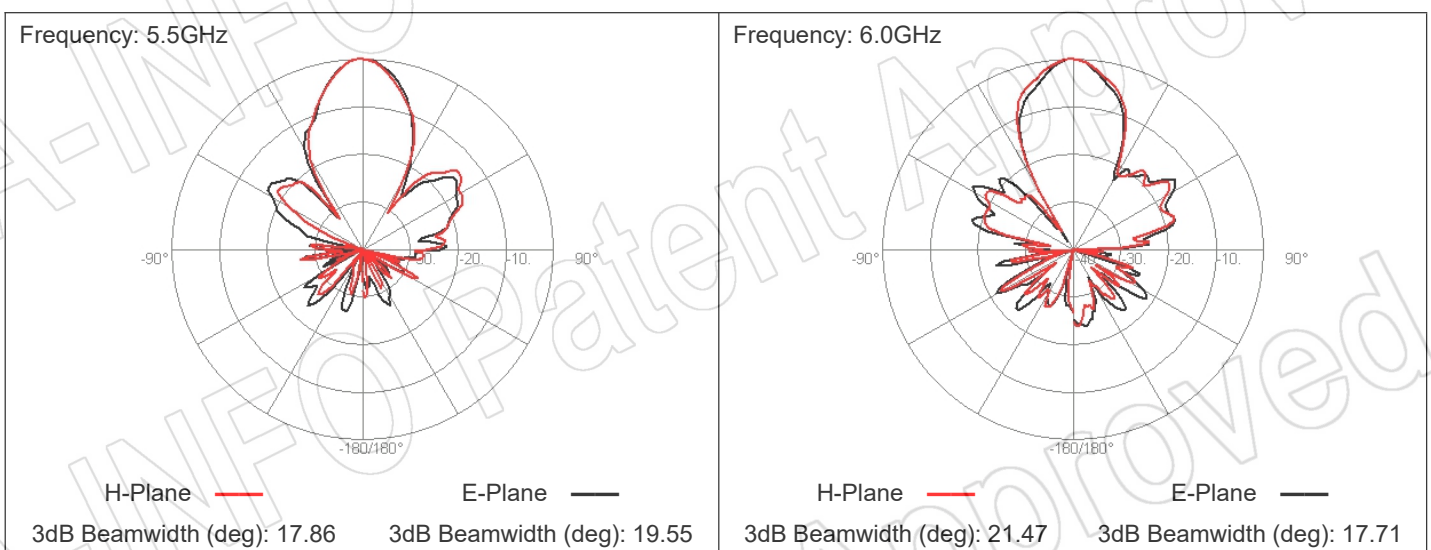
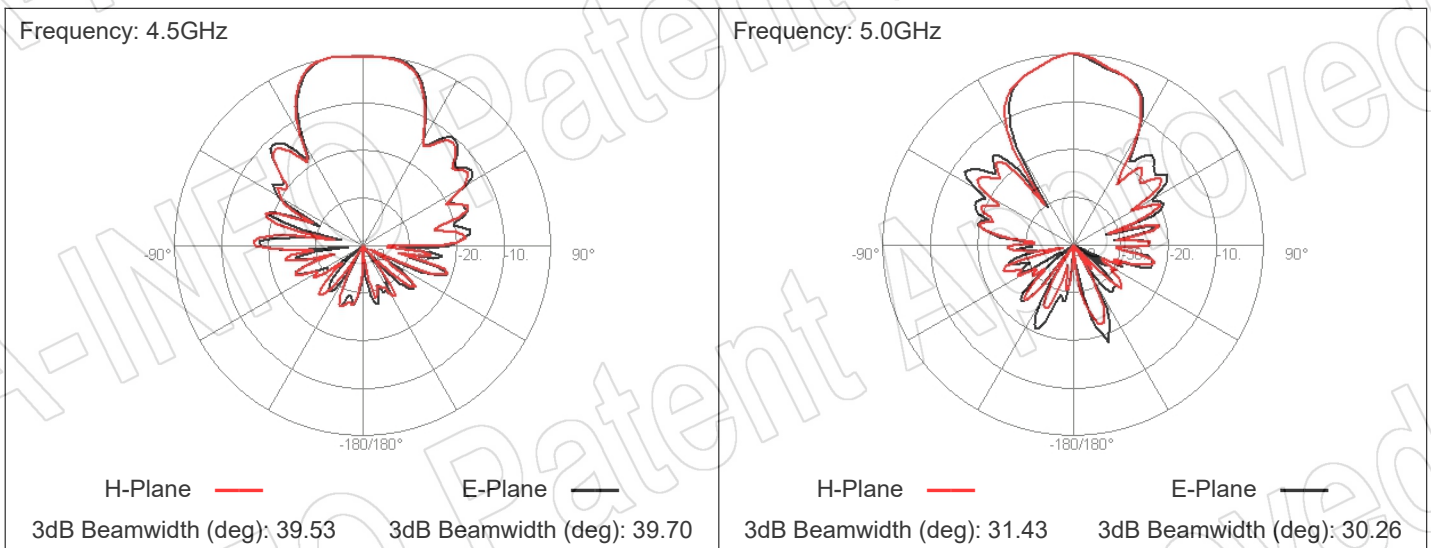
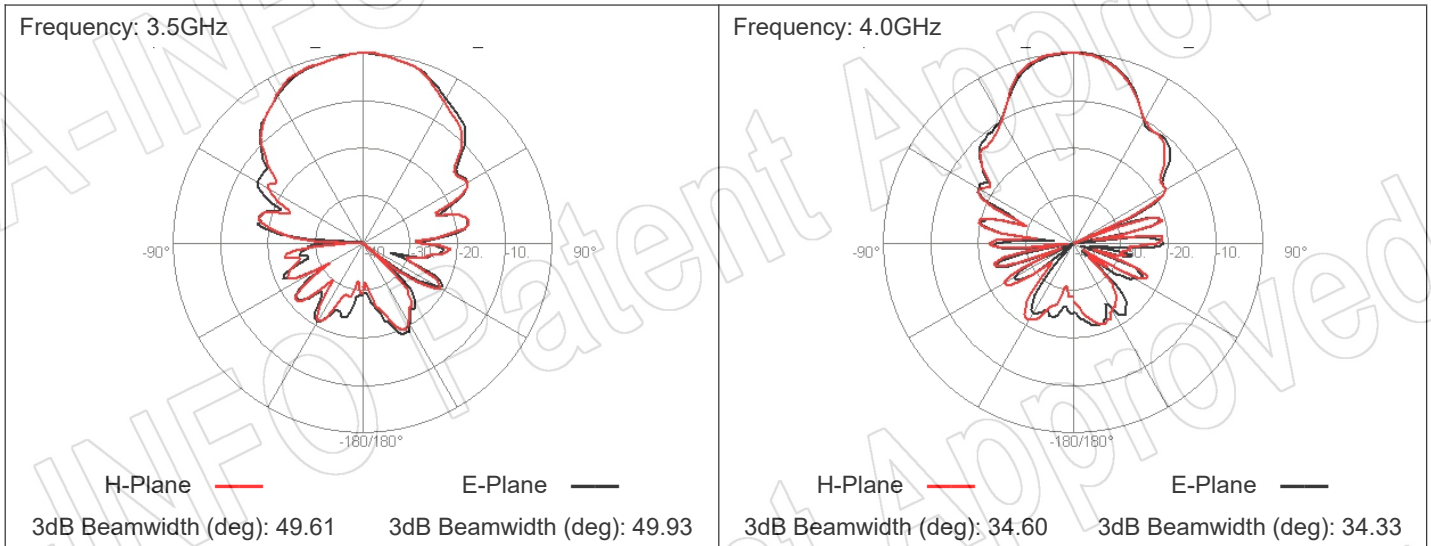


H-Plane — 3dB Beamwidth (deg): 52.70  
 E-Plane — 3dB Beamwidth (deg): 51.20

Frequency: 3.0GHz



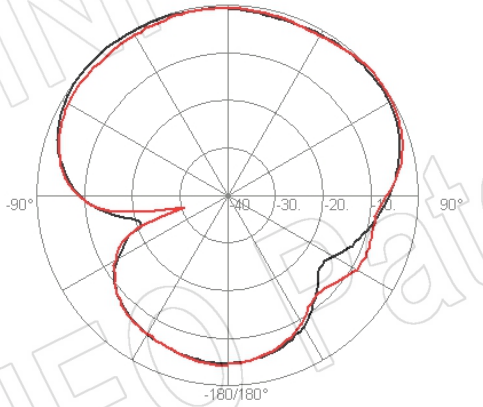
H-Plane — 3dB Beamwidth (deg): 43.86  
 E-Plane — 3dB Beamwidth (deg): 42.84





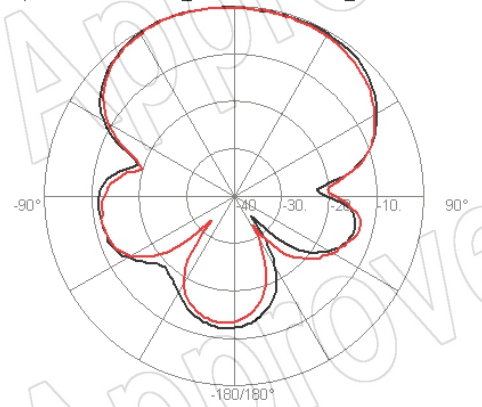
**RHCP**

Frequency: 0.7GHz



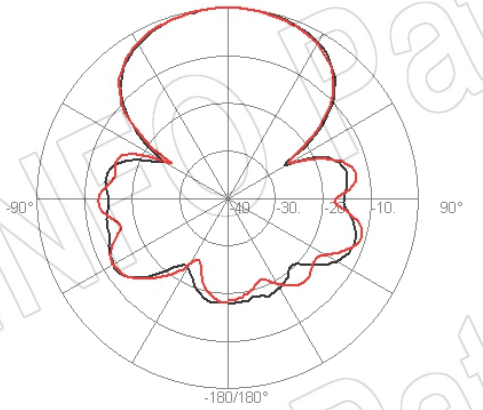
H-Plane ——— E-Plane ———  
 3dB Beamwidth (deg): 151.12    3dB Beamwidth (deg): 150.16

Frequency: 1.0GHz



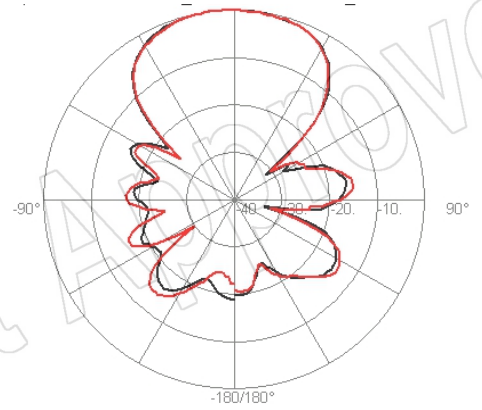
H-Plane ——— E-Plane ———  
 3dB Beamwidth (deg): 93.23    3dB Beamwidth (deg): 99.17

Frequency: 1.5GHz



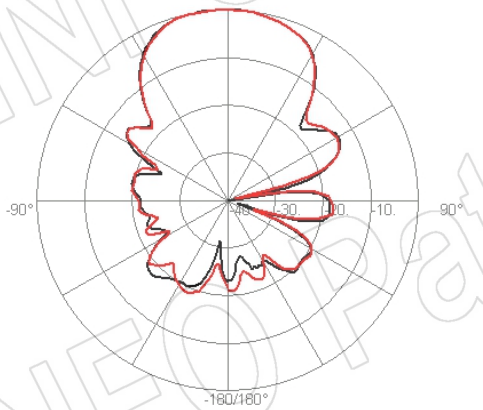
H-Plane ——— E-Plane ———  
 3dB Beamwidth (deg): 64.72    3dB Beamwidth (deg): 65.40

Frequency: 2.0GHz



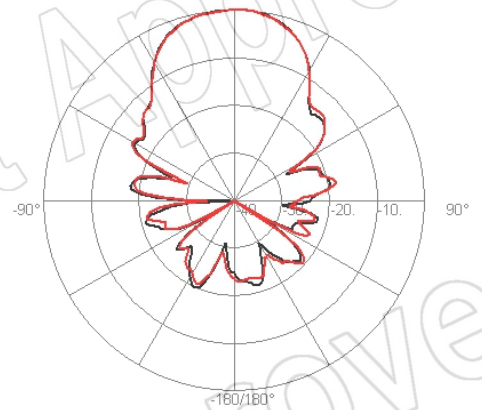
H-Plane ——— E-Plane ———  
 3dB Beamwidth (deg): 60.41    3dB Beamwidth (deg): 61.91

Frequency: 2.5GHz



H-Plane ——— E-Plane ———  
 3dB Beamwidth (deg): 51.40    3dB Beamwidth (deg): 52.49

Frequency: 3.0GHz



H-Plane ——— E-Plane ———  
 3dB Beamwidth (deg): 42.19    3dB Beamwidth (deg): 42.64



