

Shenzhen Keesun Technology Co., Ltd.

Product datesheet

Product P/N KS170-10007-BProduct Description: 2.4/5.8G CPE 天线, 双极化天线 1.37低损耗黑色线, 四条线,2.4G 总线长 135MM /5.8G 总线长 80MM +IPEX

Client: _____

Client P/N: _____

KEESUN		
QA	R&D	Marketing Dept
Wu Miaoyan	Liao haibin	Liu chenglan

Client		
Affirm	Examine and Verify	Ratify
Bear fruit: ☐	Accept ☐	Refuse
Suggestion:		

Catalogue

[illegible]

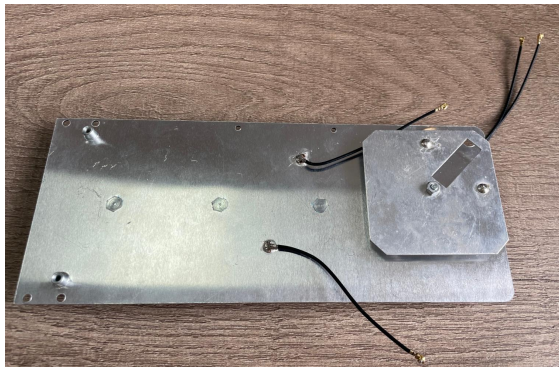
Product Specification Overview

●Electrical Performance:

1. Frequency Range: 2.4/5.8G
2. Impedance: 50 Ohms nominal
3. VSWR: ≤ 1.92
4. Gain: 6/13dBi
5. Connector Type:I-pex

●Mechanical properties:

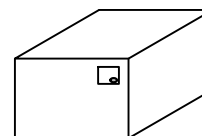
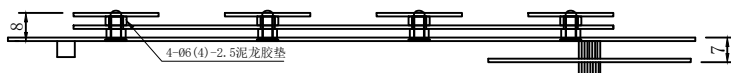
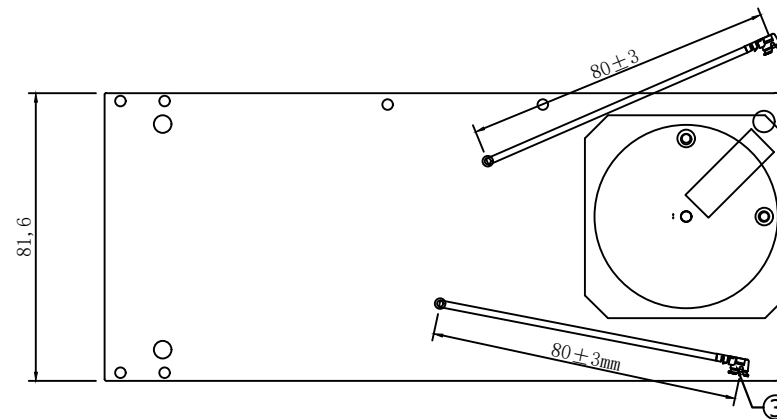
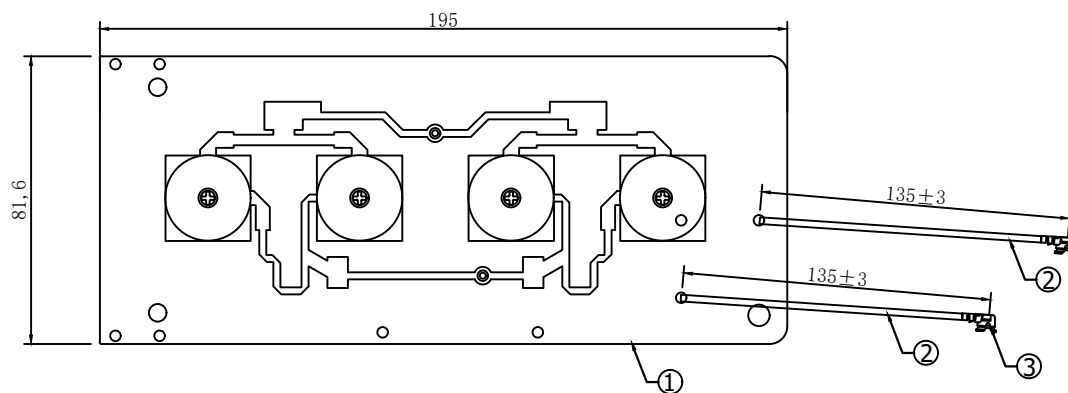
1. Cable: MI 1.37 Black Cable,50 Ohm
2. Operation temperature range: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
3. Storage temperature range: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$
4. Color:



Product drawing

ROHS

REV.	Description	Date
A	New Release	2026.6.6



- 1.外箱需贴1PCS/ROHS标签于外箱标签上
2.外箱需贴1PCS/外箱标签于外箱侧麦右上角

Specification:
Frequency Rang:2.4/5.8GHz
Impedance:50Ω
Return Loss:-10dB or less
VSWR:1.92
Gian:6/13dBi

3	Connector	MHF Plug for Φ1.37 Cable	4	
2	Aluminium sheet	L195*W81.6*T1.0mm	1	
1	Cable	MI1.37 Cable,Black,50Ω	4	
NO	DESCRIPTION		Q'TY	REMARK

TITLE:		2.4G/5.8G CPE 铝板天线		 KEESUN Shenzhen keesun Technology Co., Ltd.					
P/N:									
CUSTOMER:		KS170							
DRAW NO.:		KS170-10007-B							
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED									
一般公差 TOLERANCE		.XXX	±0.05	XX	±1.0	SHEET: 1/1	SCALE: 1:1	APPROVED	
		.XX	±0.1					CHECKED	
		.X	±0.2						
		X	±0.5			UNIT: mm	REV.A	DRAWN	Julia

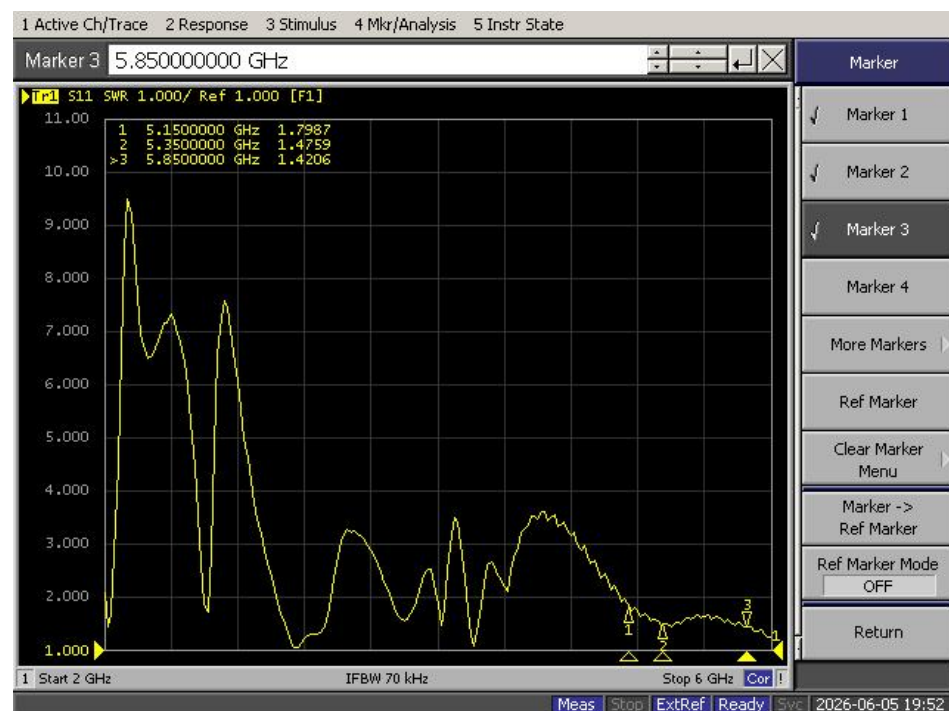
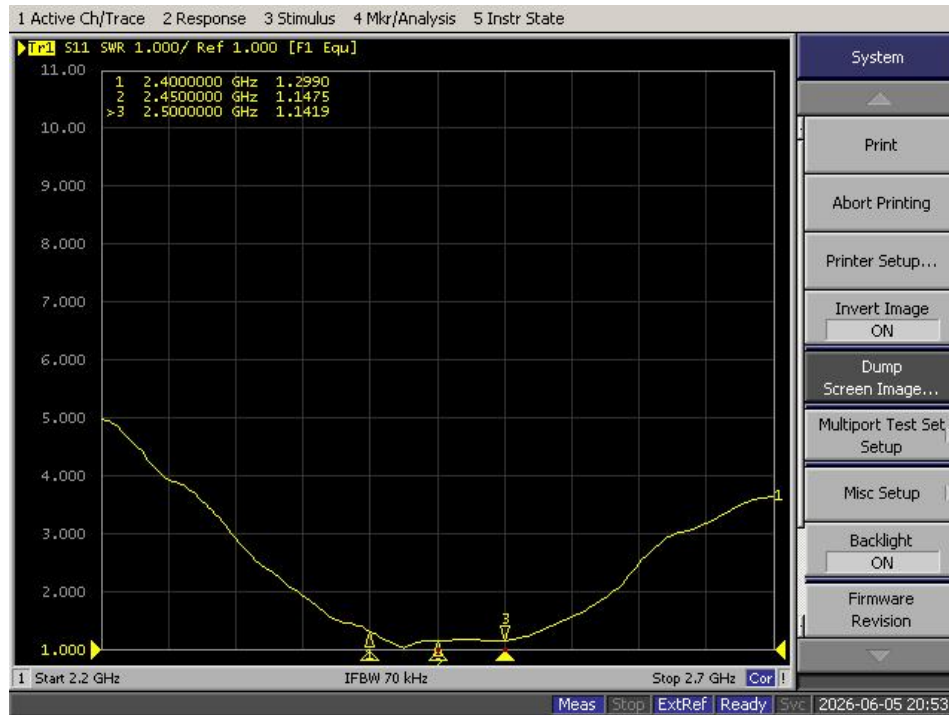
Shenzhen Keesun Technology Co., Ltd.

Network analyzer test pattern

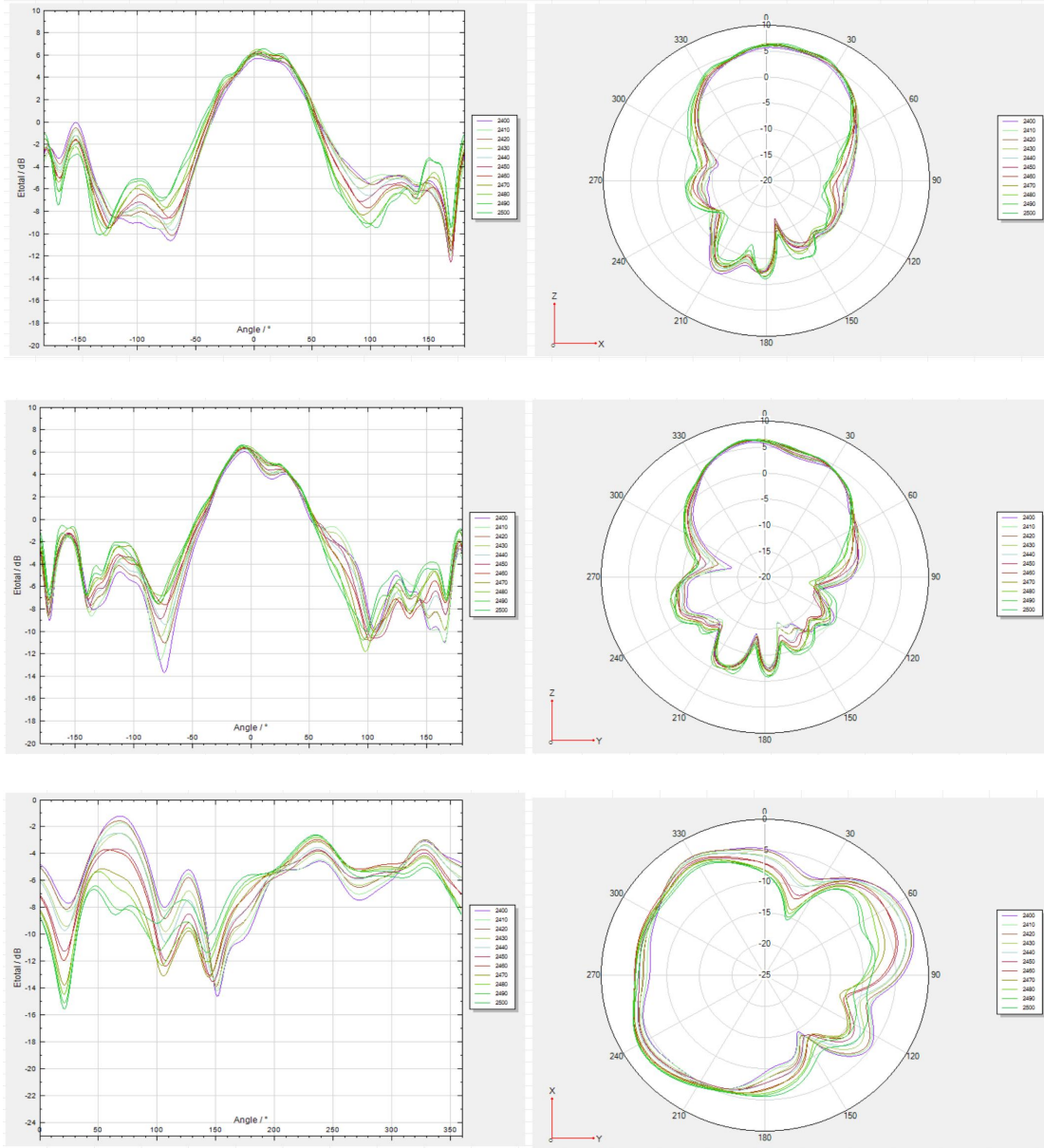
P / N(Part Number):KS170-10007-B-A

Title specification: 2.4G/5.8GHz CPE antenna

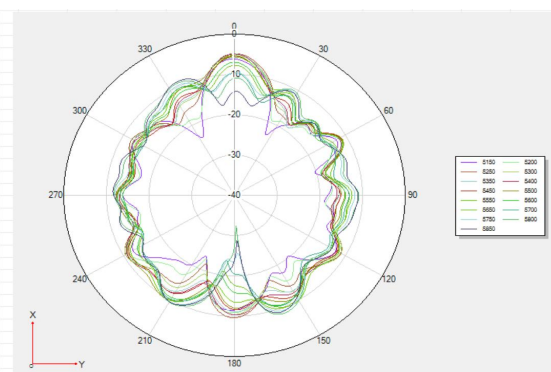
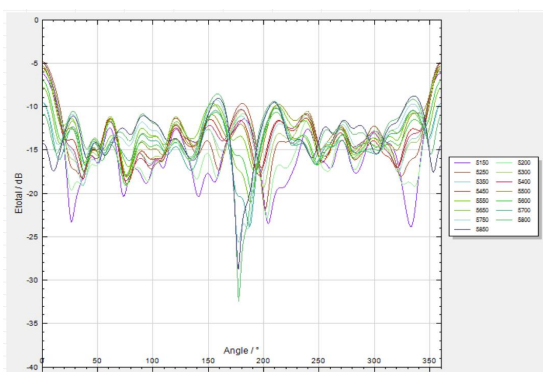
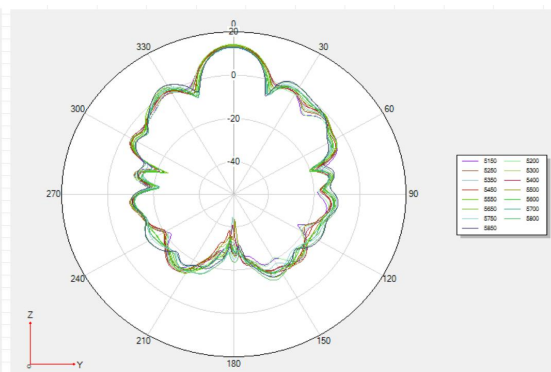
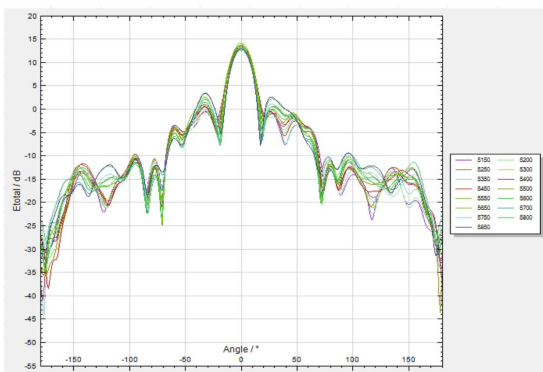
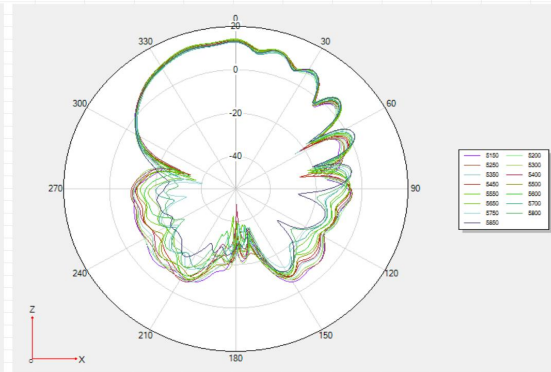
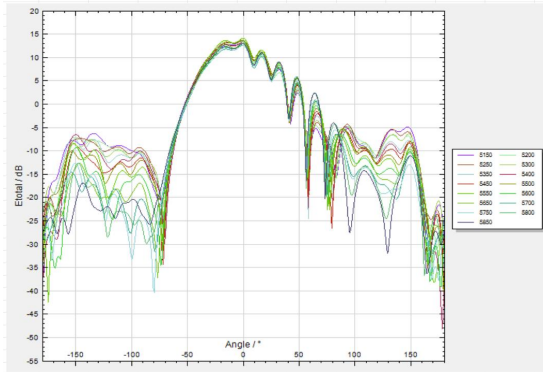
Test value:Return Loss/VSWR



Antenna 2D Report-2.4G

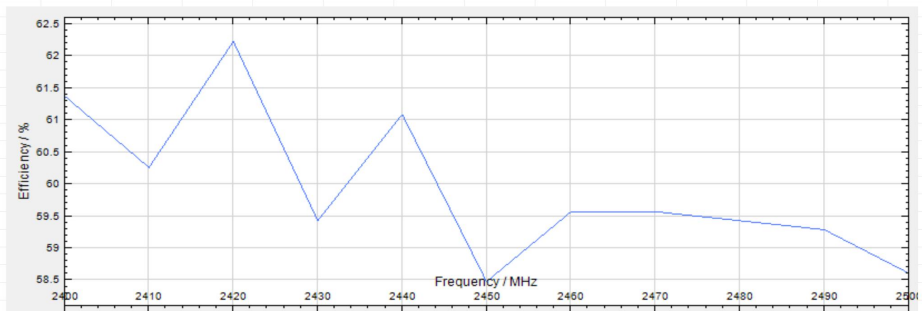


Antenna 2D Report-5.8G

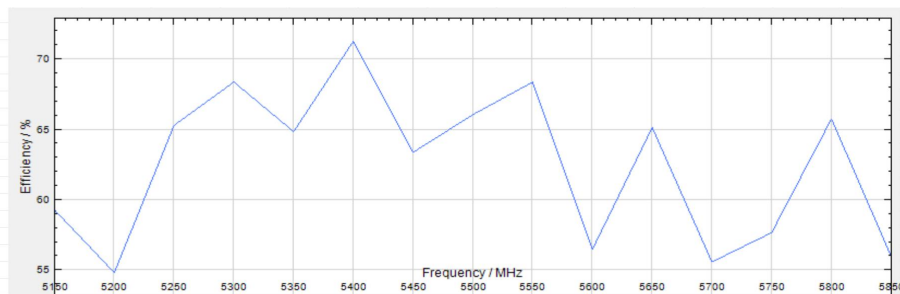


Antenna Efficiency

Frequency/	Efficiency / %
2400	61.38
2410	60.26
2420	62.23
2430	59.43
2440	61.09
2450	58.48
2460	59.57
2470	59.57
2480	59.43
2490	59.29
2500	58.61

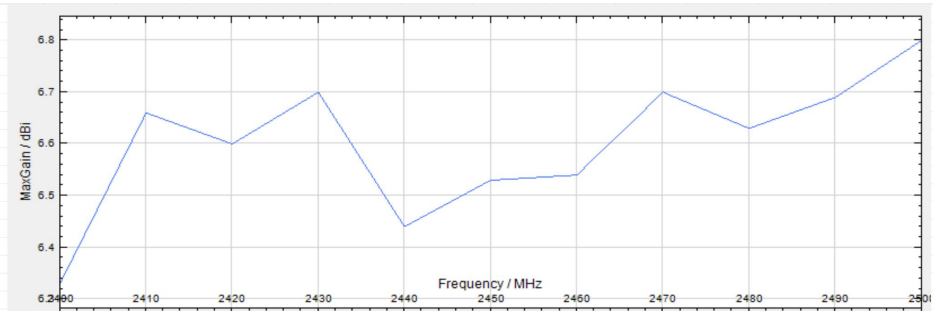


Frequency/	Efficiency / %
5150	59.29
5200	54.83
5250	65.31
5300	68.39
5350	64.86
5400	71.29
5450	63.39
5500	66.07
5550	68.39
5600	56.49
5650	65.16
5700	55.59
5750	57.68
5800	65.77
5850	55.98

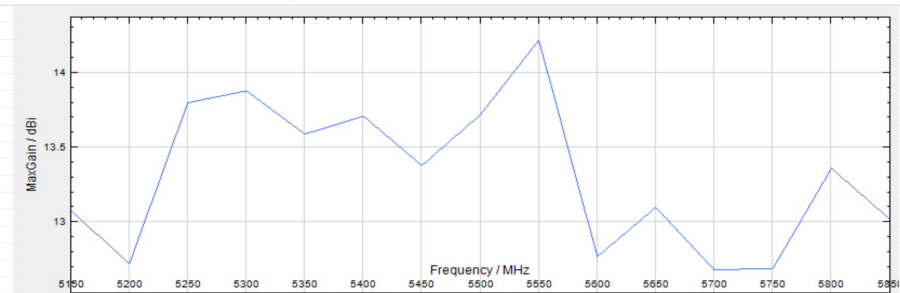


Gain

Frequency/	MaxGain/dBi
2400	6.33
2410	6.66
2420	6.6
2430	6.7
2440	6.44
2450	6.53
2460	6.54
2470	6.7
2480	6.63
2490	6.69
2500	6.8

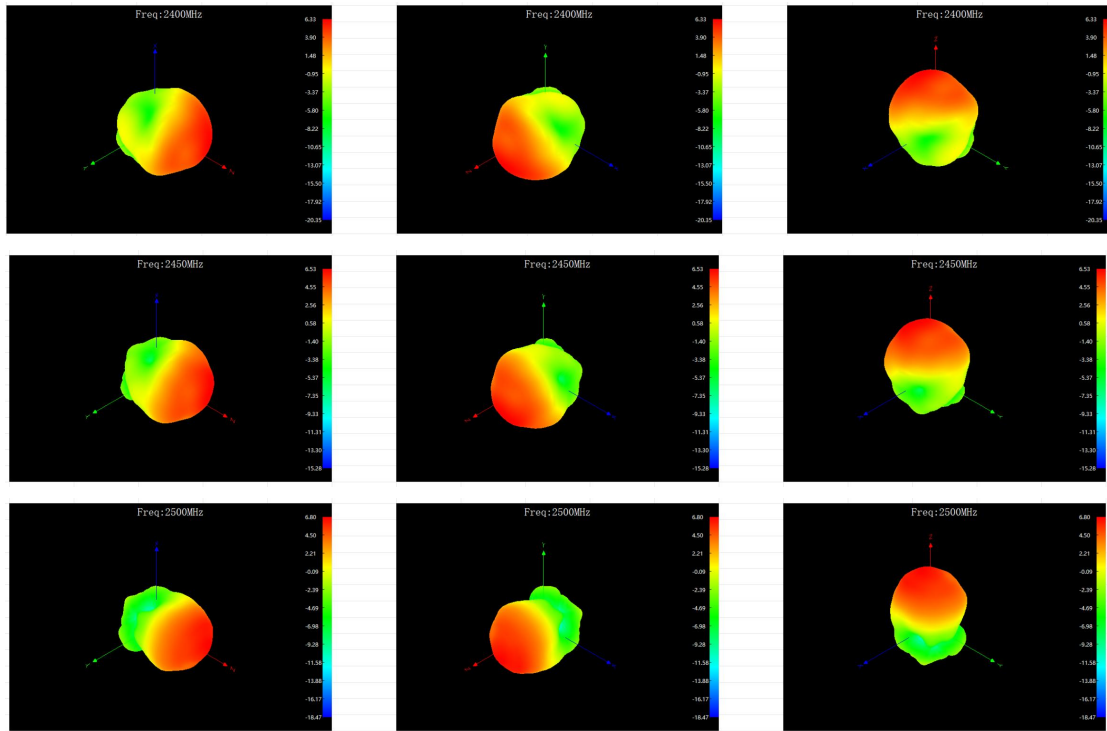


Frequency/	MaxGain/dBi
5150	13.08
5200	12.72
5250	13.8
5300	13.88
5350	13.59
5400	13.71
5450	13.38
5500	13.72
5550	14.22
5600	12.77
5650	13.1
5700	12.68
5750	12.69
5800	13.36
5850	13.02

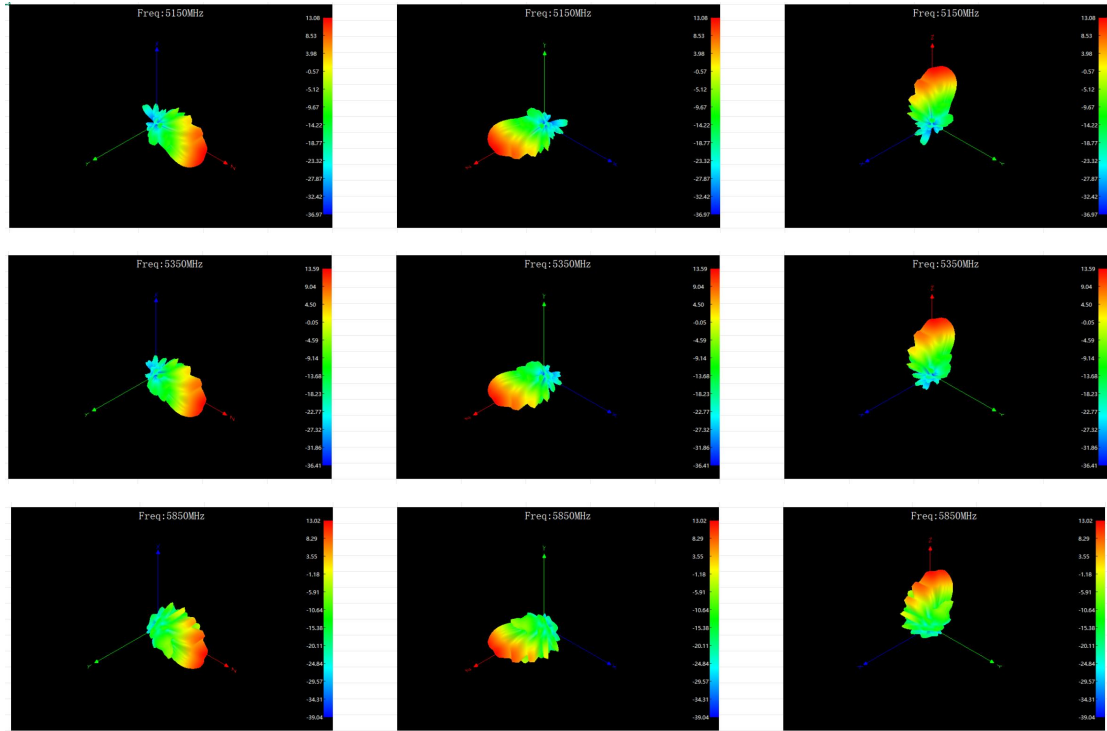


Antenna 3D Report

2.4G



5.8G



Antenna standard parameters

一、 Technical specifications		
Operating frequency range	2.4G/5.8GHz	
S.W.R	≤1.92	
Antenna gain	6/13dBi	
Switching mode	I-PEX	
Impedance	50 Ohm	
二、 Reliability test		
Project	Test condition	Specifications
Storage environment	Temperature, humidity, and air pressure are tested in the absence of specified conditions: 1 temperature is -30 degrees C to +80 2 relative humidity is 45%-85% 3 air pressure is 86kpa-106kpa	Normal electrical and mechanical properties
High and low temperature test	Between 70 and 40 degrees C for 5 cycles, and then under normal conditions 1-2H, check the appearance quality.	The dimensions shall meet the requirements and shall meet the requirements of the mechanical and electrical properties.
Resistance to constant damp heat test	Relative humidity 95 + 3%, the test temperature: 40 degrees C, after continuing the 2H effect, the test sample after taking out the electrical performance of 5min, test product under normal conditions 1-2H, check the appearance quality	The dimensions shall meet the requirements and shall meet the requirements of the mechanical and electrical properties.
Vibration test	Frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, sweep frequency cycle times: 30 times	Normal electrical and mechanical properties
Drop test	1m high altitude drop	Normal electrical and mechanical properties
Drawing force test	To test the bearing strength with push pull test instrument: 10N	Normal electrical and mechanical properties
Voltage resistance	1 insulation spark voltage 1.5KV 2 sheath spark voltage 1.5KV 3 insulation resistance to sheath voltage 0.5KV	Normal electrical and mechanical properties
Attenuation value	Frequency Standard value(dB/1m) 1GHz ≤2.1 2GHz ≤3.0 3GHz ≤3.7 4GHz ≤4.35 5GHz ≤5.0 6GHz ≤5.5	3.3dB/m (at20°C)