

Catalog

[illegible]

Product specification

●Electrical Performance:

Frequency Range: 2.4&5.8GHz

1. Impedance: 50 Ohms nominal
2. VSWR: ≤ 1.92
3. Gain: 3~4dBi
4. Admitted power radiation: 1W
5. Radiation of Radiation: Toroidal
6. Radiation: Omni
7. Polarization: Vertical
8. Connector Type: i-pex

●Mechanical properties:

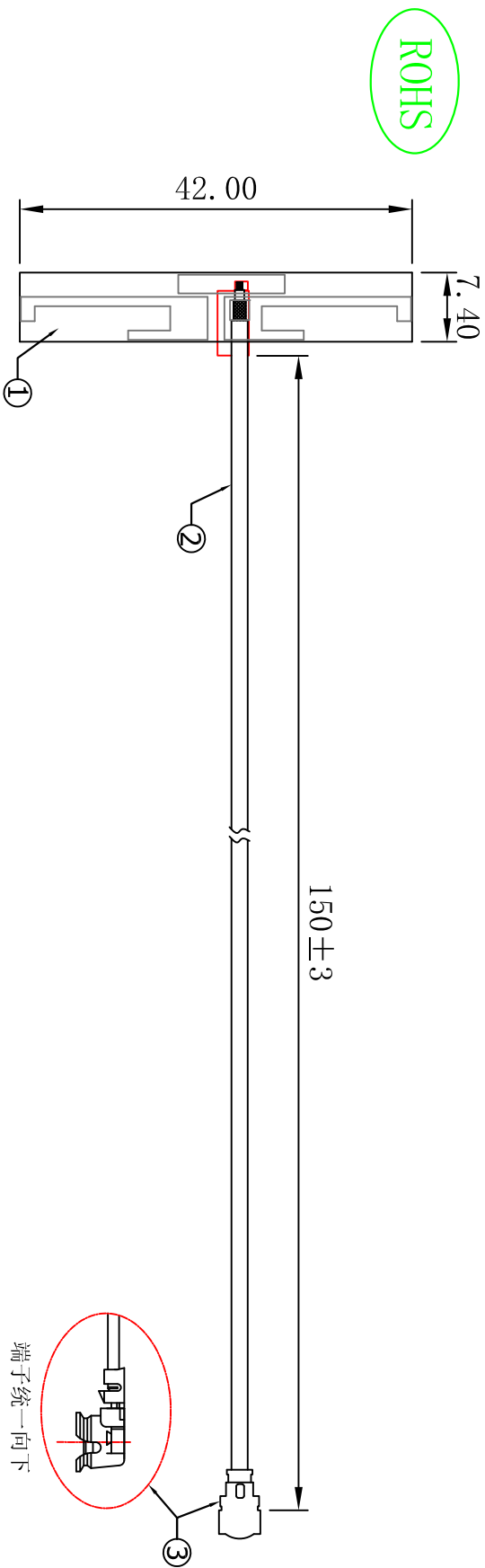
1. Cable: 1.13 Black Cable
2. Operation temperature range: $-20^{\circ}\text{C} \sim +70^{\circ}\text{C}$
3. Storage temperature range: $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$
4. Color:

●The product structure pictures



成品图

REV.	DESCRIPTION	DATE
X1	新 版 发 行	2019.06.15



50PCS/Bundle
Pack:200PCS/PE Bag

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

4			1	
3	CONN	IPEX FOR $\phi 1.13\text{mm}$ Cable	1	
2	CABLE	$\phi 1.13\text{mm}$ CABLE (Black)	1	
1	FPC	($142 \times \text{W}7.4\text{mm}$)	1	
NO.	DESCRIPTION		QTY	REMARK

SPECIFICATION:
FREQUENCY RANGE:2.4~2.5/5.15~5.85GHz
VSWR:1.92 MAX
IMPEDENCE:50 Ω
Gain:3.0dBi

TITLE:		FPC内置天线+IPEX				深圳市麒麟新弘泽科技有限公司 SHENZHEN KEESUN TECHNOLOGY CO., LTD			
P/N:		5080001							
CUSTOMER:		KS085							
DRAW NO.:		EM60							
DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED									
一般公差 TOLERANCE		XXX		±0.05	XX				
		XX		±0.1					
		X		±0.2					
		X		±0.5					
SHEET:1/1		SCALE:NONE				CHECKED			
UNIT: mm		REV.A		DRAWED		Fred			

Shenzhen Keesun Technology co; Ltd

Network analyzer test diagram

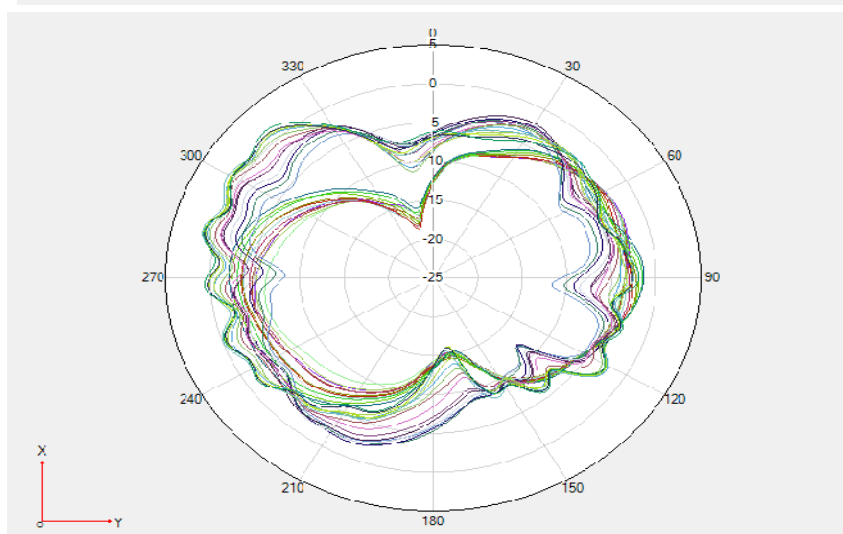
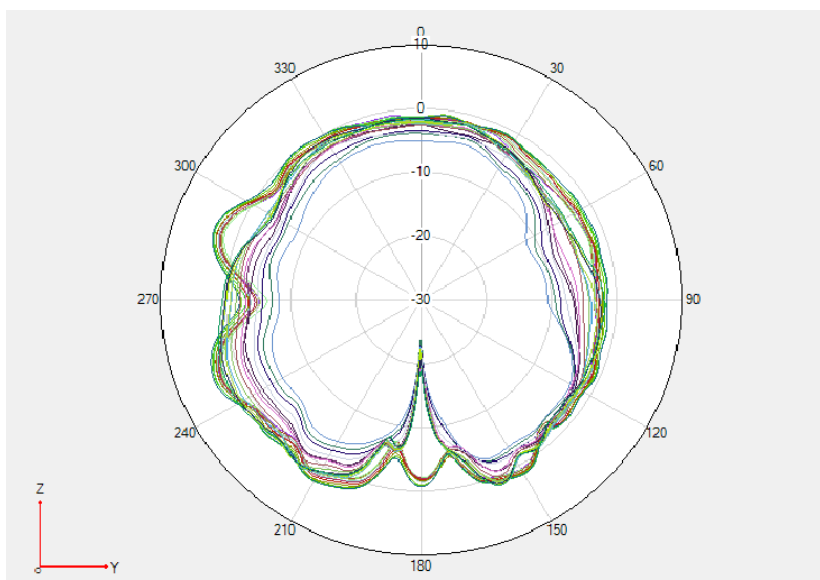
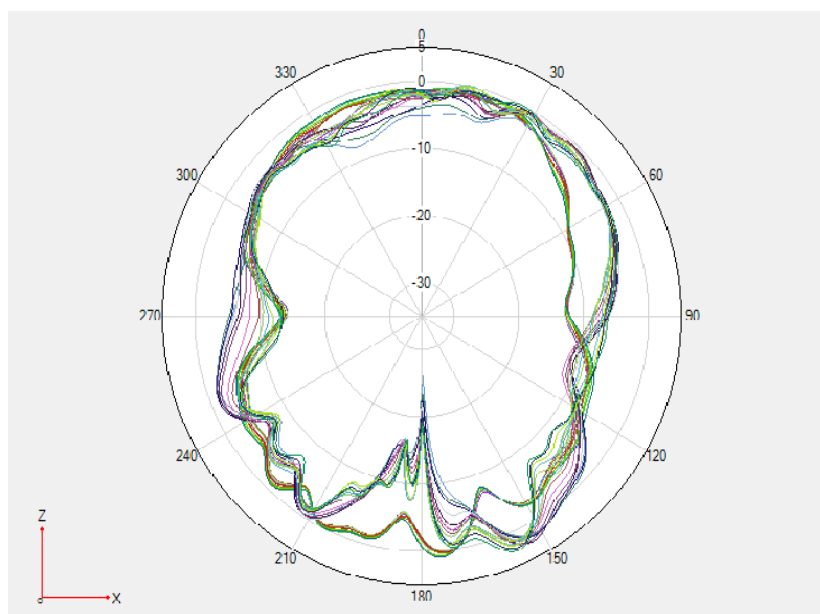
Part NO:EM60

Spec:2. 4&5. 8G PCB Antenna

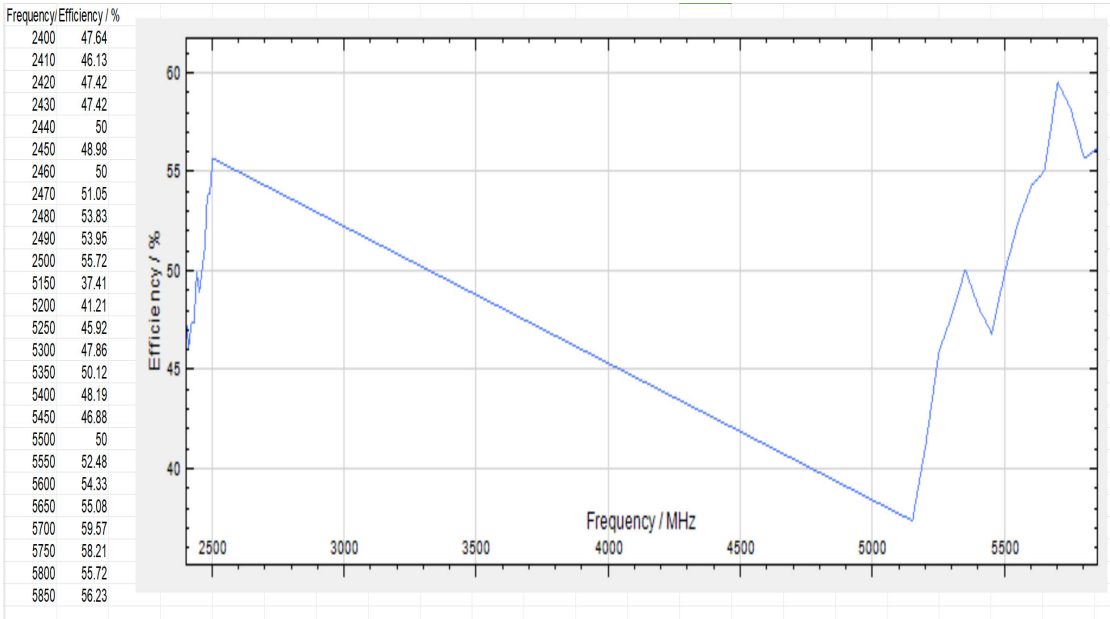
Test::Return Loss/VSWR



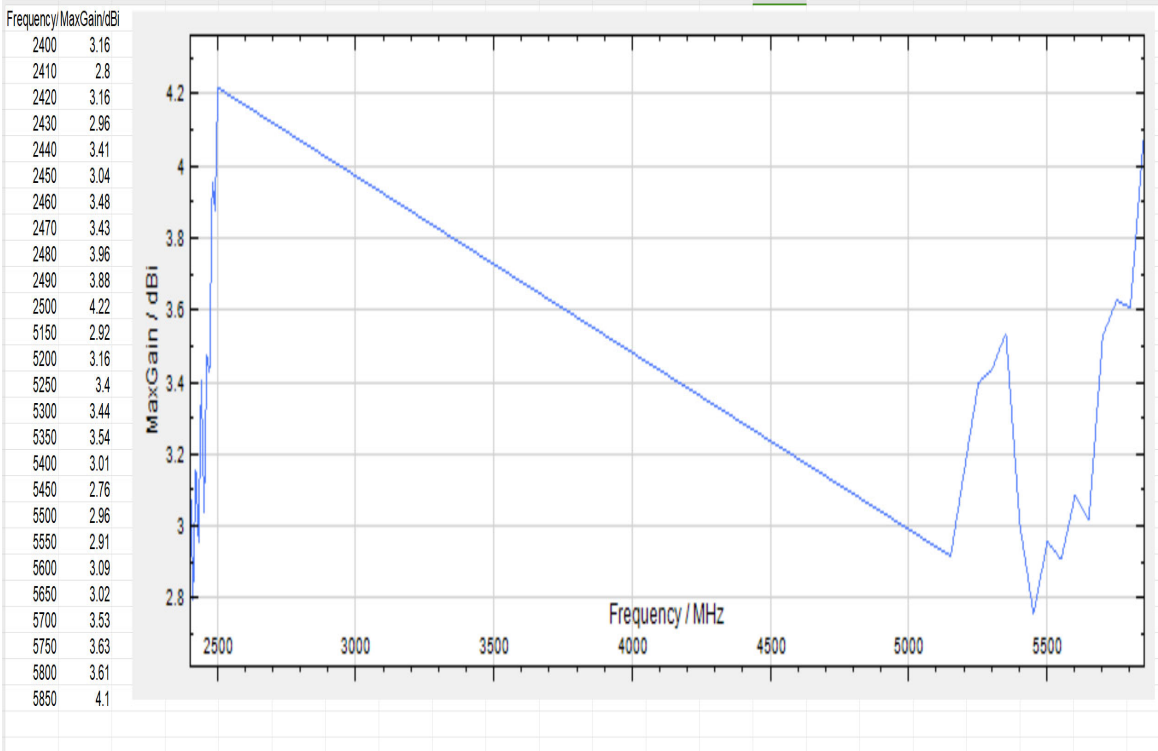
Antenna 2D Report-2.4&5.8GHz



Antenna Efficiency 2.4&5.8GHz

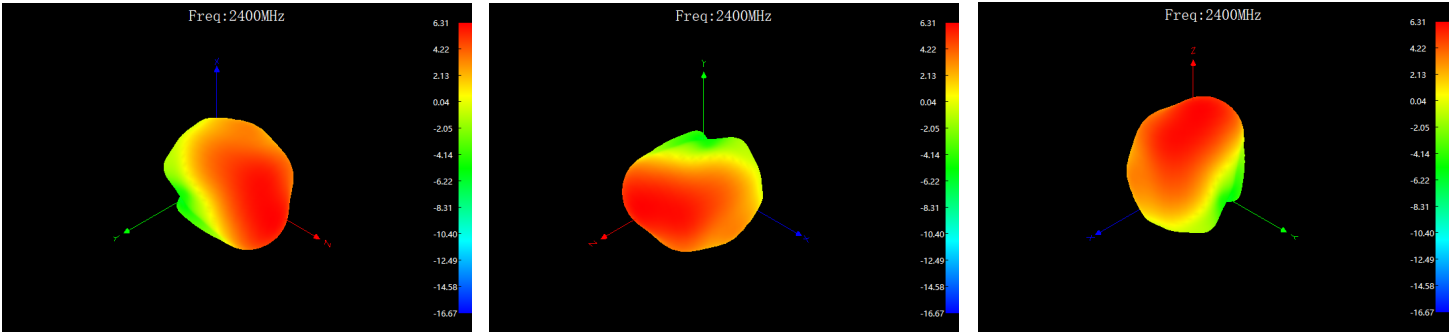


Peak Gain2.4&5.8GHz

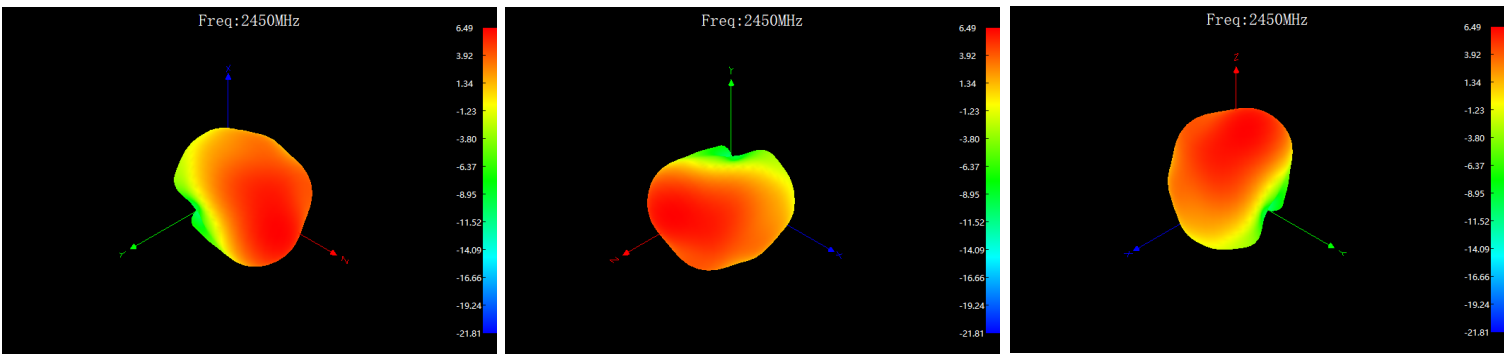


Antenna 3D Report2.4&5.8GHz

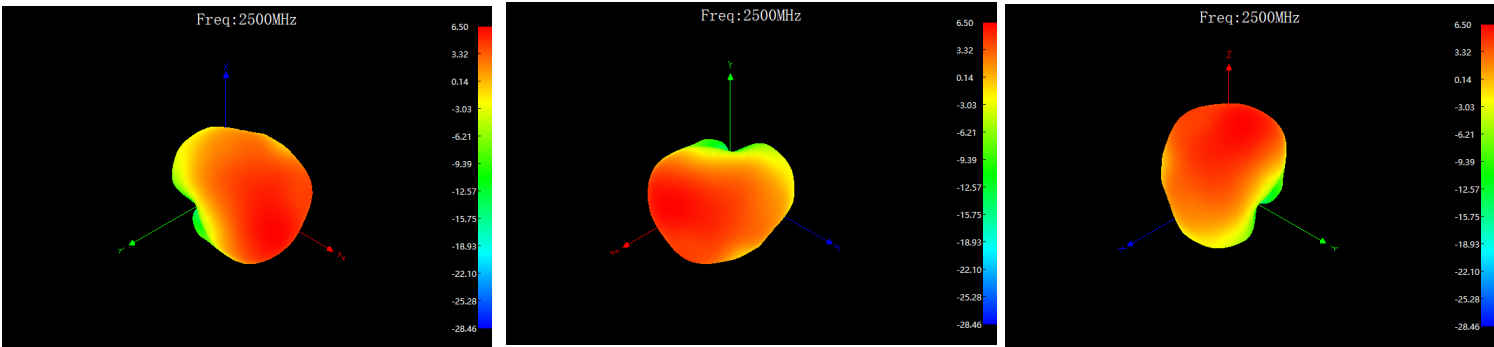
2.4G



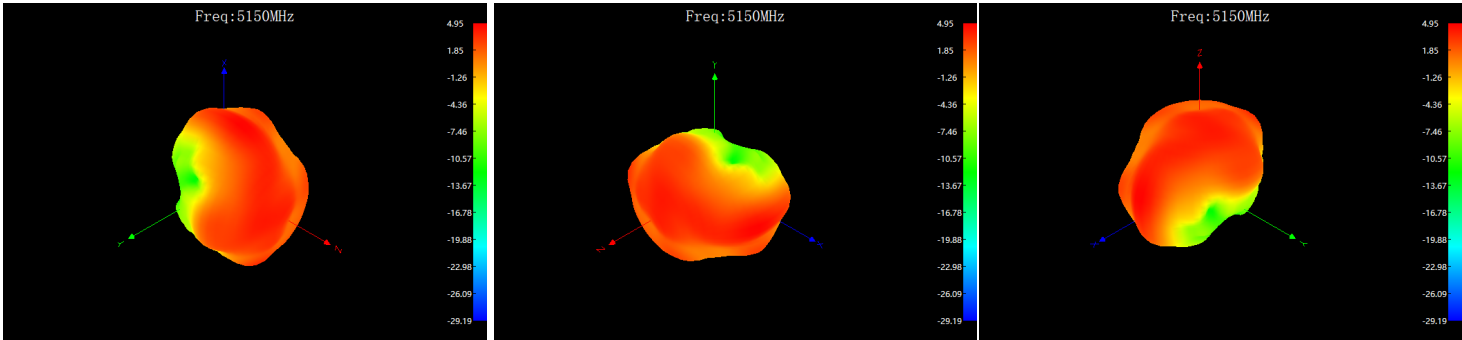
2.5G



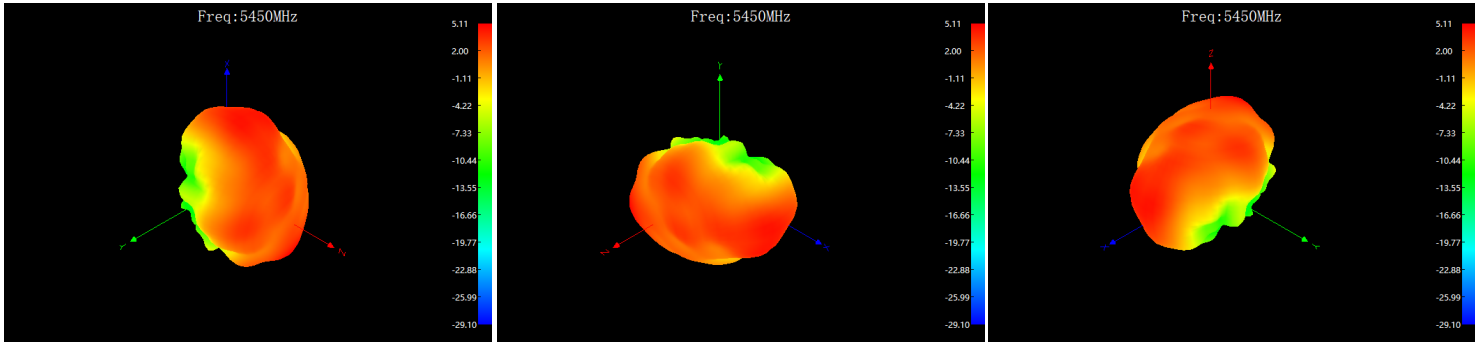
2.5G



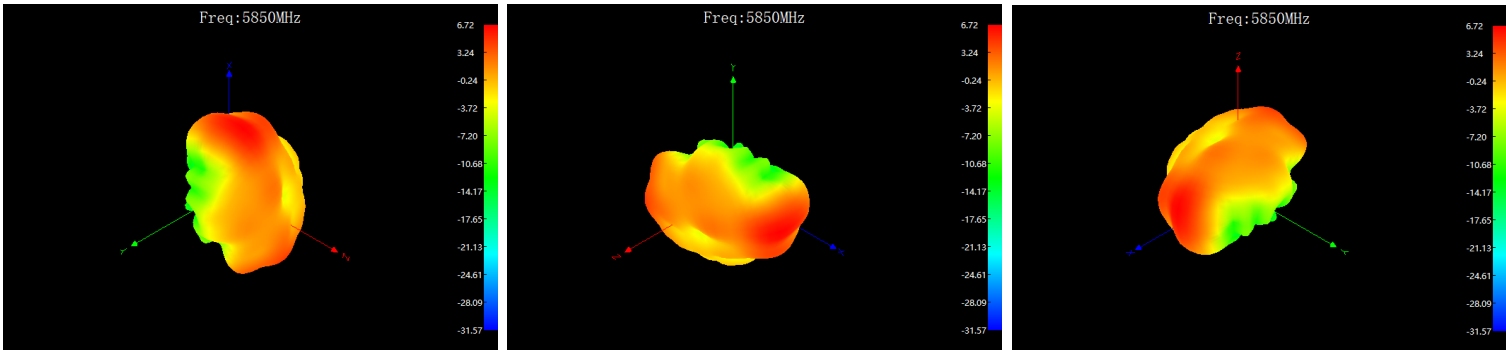
5.15G



5.45G



5.85G



Antenna standard parameters

一、Technical specifications

Operating frequency range	2.4GHz~2.5GHz /5.15~5.85 GHz
S.W.R	≤ 1.92
Antenna gain	3~4dBi
Switching mode	1-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	2.0(nominal) 1.0GHz 2.9(nominal) 2.0GHz 3.2(nominal) 2.4GHz 3.7(nominal) 3.0GHz 4.3(nominal) 4.0GHz 4.8(nominal) 5.0GHz 5.3(nominal) 6.0GHz	3.3dB/m (at20°C)