

APPROVAL

version: A1

client: Shenzhen honghaofeng electronic
: technology co., ltd

DESCRIPTION: 2.4G built-in copper tube antenna L100mm

PART NO.: 3000.28.0904101

CUS PART NO.:

D A T E: 2023-8-10

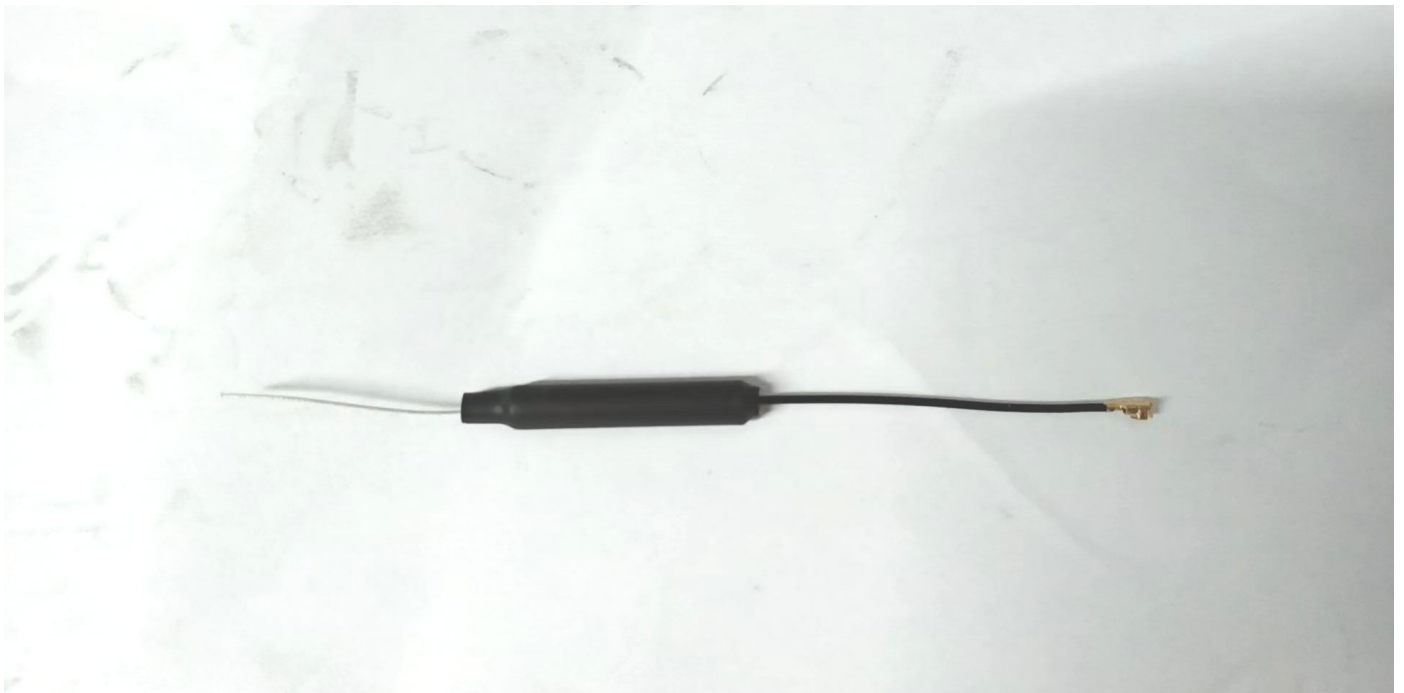
ENGINEERING DEPARTMENT	Q C DEPARTMENT	SALES DEPARTMENT

ENGINEERING DEPARTMENT	Q C DEPARTMENT	PURCHASING DEPARTMENT

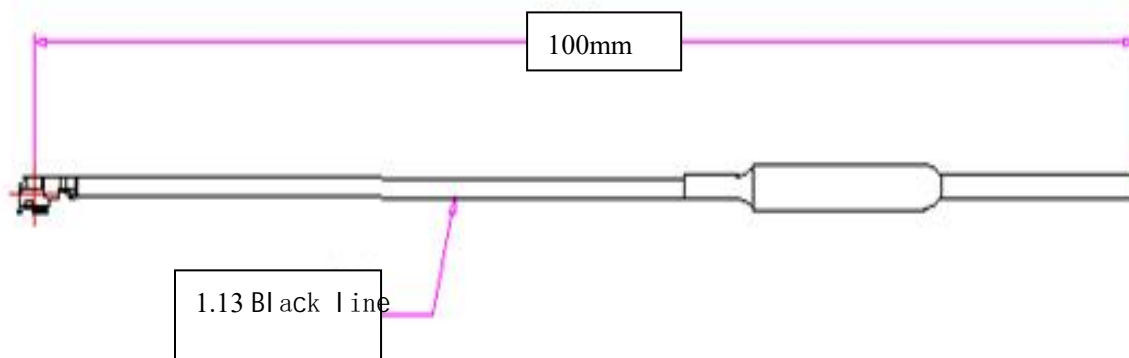
Electrical technical parameters

电性能指标		Electrical Specifications	
频率范围	2400-2500MHZ	Frequency Range	2400-2500MHZ
电压驻波比	≤2.0	VSWR	≤2.0
增益	2DBI	GAIN	2DBI
输入阻抗	50 Ω	Input Impedance	50 Ω
机械指标		Mechanical Specifications	
线材颜色	黑色	CABLE Color	BLACK
接口形式	IPEX	Input connector	IPEX
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%

Product picture:



Specification drawing:

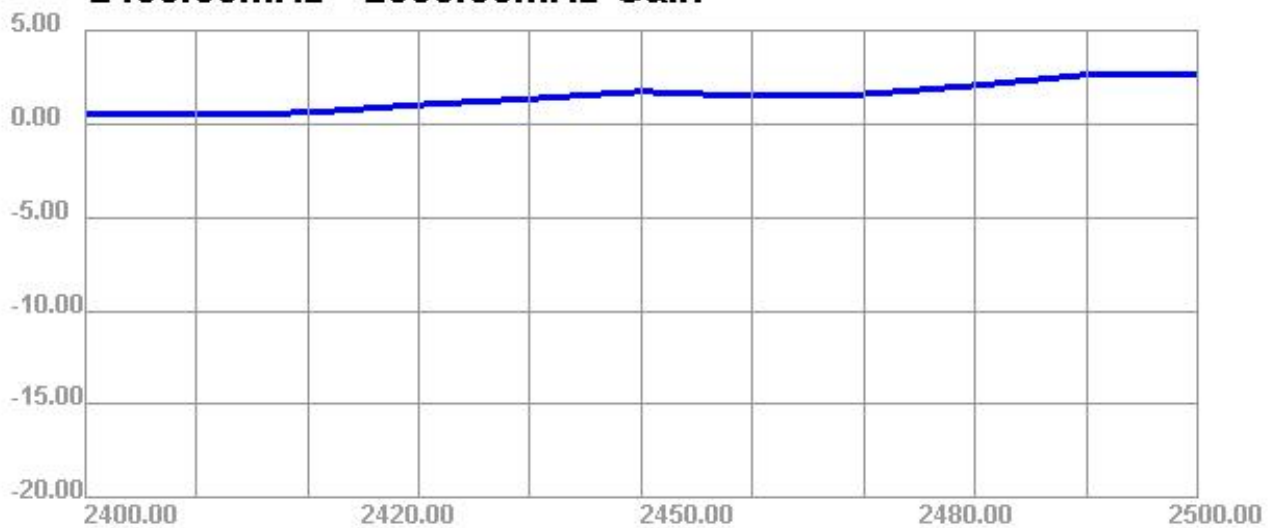


Antenna manufacturer: Shenzhen Honghaofeng Electronic Technology Co., Ltd.
Address: Floor 2, Building B, Baoying Industrial Zone, Longxi Community, Longgang town, Longgang District, Shenzhen.

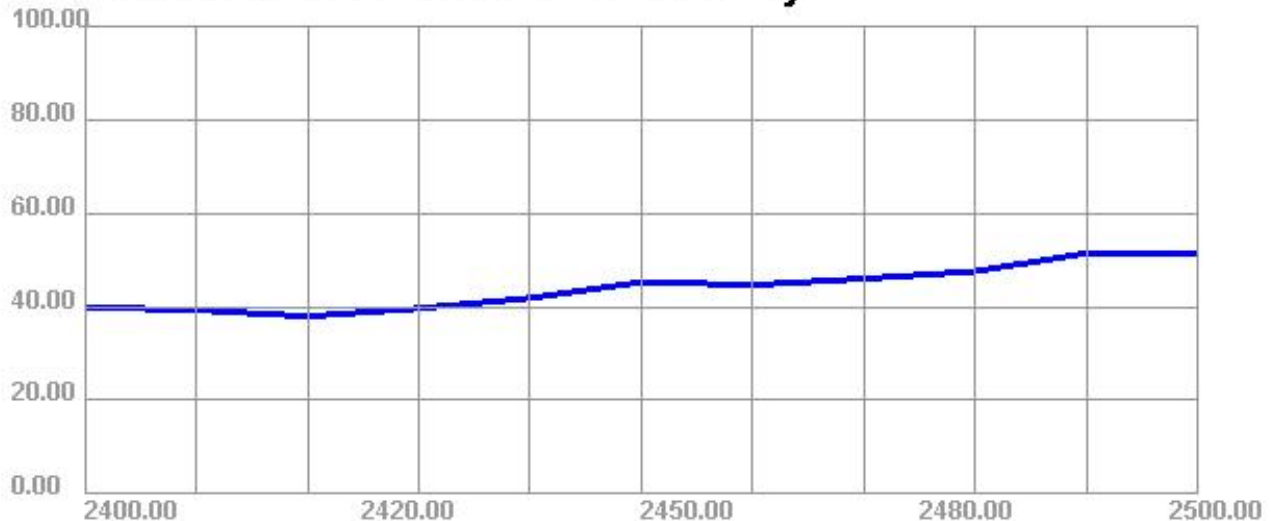
Sample testing:

Passive Test For WIFI												
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHIS (%)	Max (dB)	Min (dB)	irectivity (dBi)	Beamwidth (3dB)	AttH (dB)	AttV (dB)
2400	39.9	-3.99	0.52	-1.63	16.108	23.797	0.52	-13.42	4.51	60	43.91	43.89
2410	39.32	-4.05	0.51	-1.64	15.992	23.328	0.51	-13.61	4.56	60	44.05	43.95
2420	37.97	-4.21	0.6	-1.55	15.669	22.298	0.6	-14.15	4.8	150	43.94	43.81
2430	39.67	-4.01	1.01	-1.14	16.61	23.065	1.01	-15.14	5.03	120	44.07	43.87
2440	41.87	-3.78	1.33	-0.82	17.871	24.001	1.33	-16.2	5.12	120	44.39	44.15
2450	45.28	-3.44	1.72	-0.43	19.717	25.565	1.72	-15.97	5.16	120	44.63	44.34
2460	44.68	-3.5	1.47	-0.68	19.873	24.811	1.47	-16.74	4.97	120	44.63	44.43
2470	46.01	-3.37	1.57	-0.58	20.954	25.061	1.57	-17.79	4.95	120	44.56	44.29
2480	47.58	-3.23	2.00	-0.1	22.246	25.334	2.05	-19.85	5.27	60	44.67	44.37
2490	51.46	-2.89	2.62	0.47	24.645	26.814	2.62	-20.28	5.5	0	44.7	44.46
2500	51.32	-2.9	2.69	0.54	25.073	26.244	2.69	-22.69	5.59	0	44.59	44.18

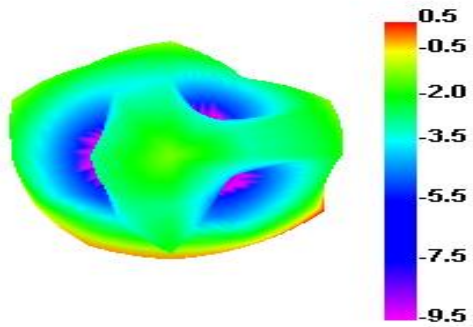
2400.00MHz - 2500.00MHz Gain



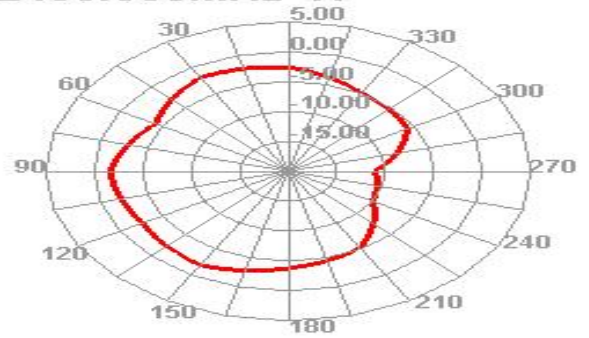
2400.00MHz - 2500.00MHz Efficiency



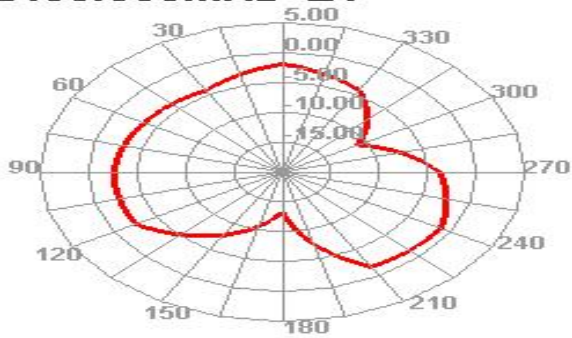
2400.000MHz



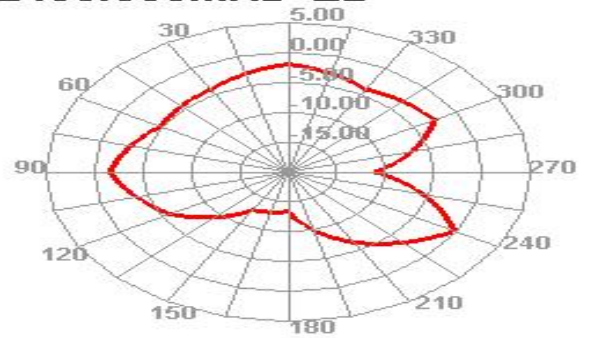
2400.000MHz H



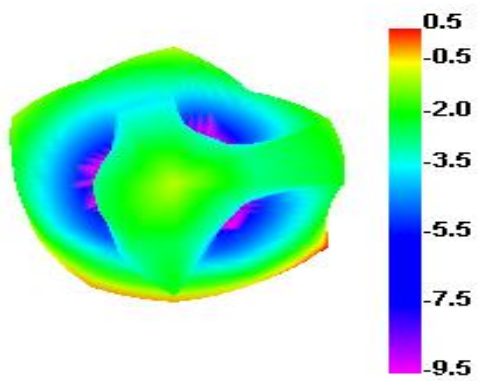
2400.000MHz E1



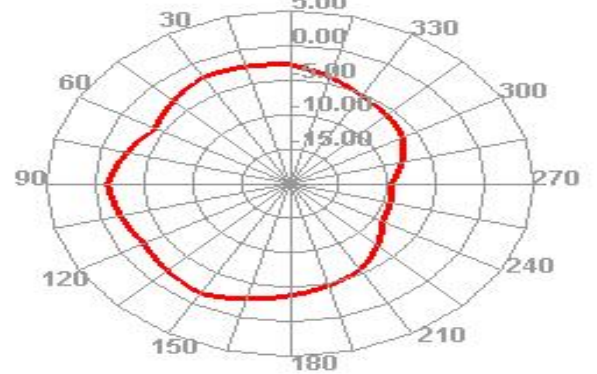
2400.000MHz E2



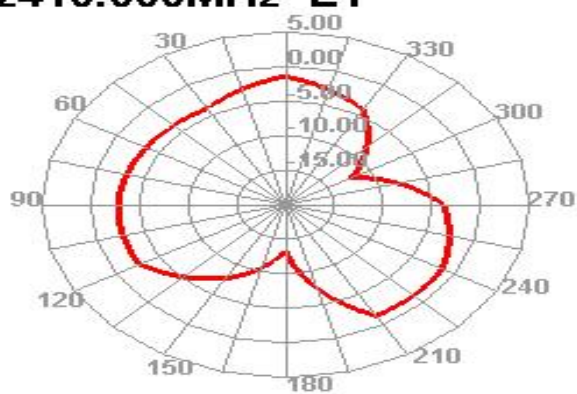
2410.000MHz



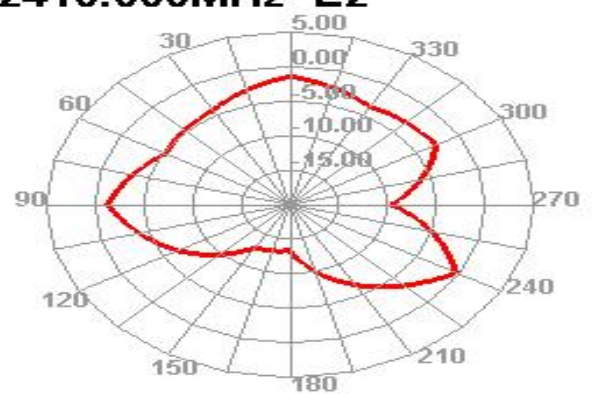
2410.000MHz H



2410.000MHz E1



2410.000MHz E2



环境性能测试 (Environmental performance test) :

ITEM	TEST CONDITION	TEST RESULT
The storage environment	<p>In the absence of the specified circumstances test temperature, humidity, air pressure is as follows:</p> <p>1 temperature is $-30\text{ }^{\circ}\text{C} \sim +80\text{ }^{\circ}\text{C}$</p> <p>2 relative humidity for 45%-85%</p> <p>The 3 pressure is 86kpa-106kpa</p>	Electrical and mechanical properties of normal
Thermocycling ;	<p>5 cycles between $70\text{ }^{\circ}\text{C}$ and $40\text{ }^{\circ}\text{C}$, then under normal conditions</p> <p>1-2H, appearance quality inspection.</p>	<p>Dimensions should meet the requirements and shall satisfy</p> <p>In the mechanical, electrical properties</p>
Resistance to damp heat Test	<p>Relative humidity is $95 \pm 3\%$, test temperature: $40\text{ }^{\circ}\text{C}$. Continue after 2H,</p> <p>Test within the product after removing the 5min determination of the electrical properties, in the normal sample</p> <p>Under 1-2H, the appearance of quality inspection</p>	<p>Dimensions should meet the requirements and shall satisfy</p> <p>In the mechanical, electrical properties</p>
vibration test ;	<p>Displacement amplitude of vibration frequency range: 10-55HZ, 0.35MM, the amplitude of acceleration:</p> <p>50.0M/S, sweep cycle times: 30 times</p>	Electrical and mechanical properties of normal
fall-down test ;	1M high altitude in accordance with the perpendicular axis free fall 3	Electrical and mechanical properties of normal