

承认书

APPROVAL

版本: A1

客 户
CUSTOMER:

品 名 规 格
DESCRIPTION:

SMA-2.4G Thin 4DB Black Antenna (B)

料 号
PART NO.:

YS030-0002B

客 户 料 号
CUS PART NO.:

日 期
D A T E:

2020-4-14

呈样签章:

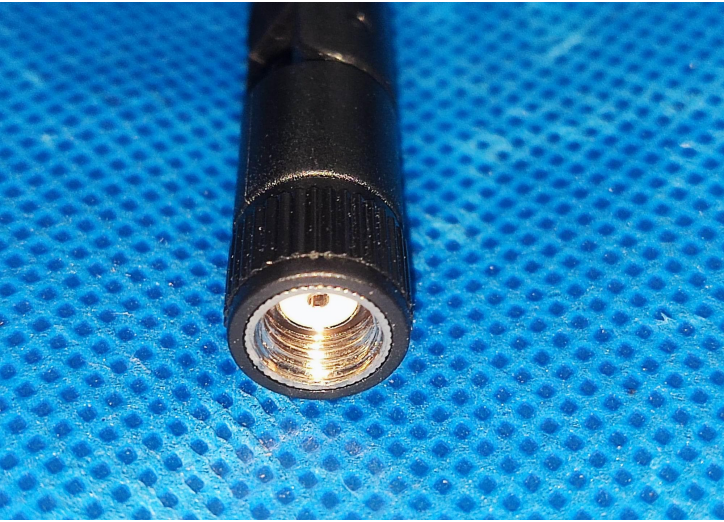
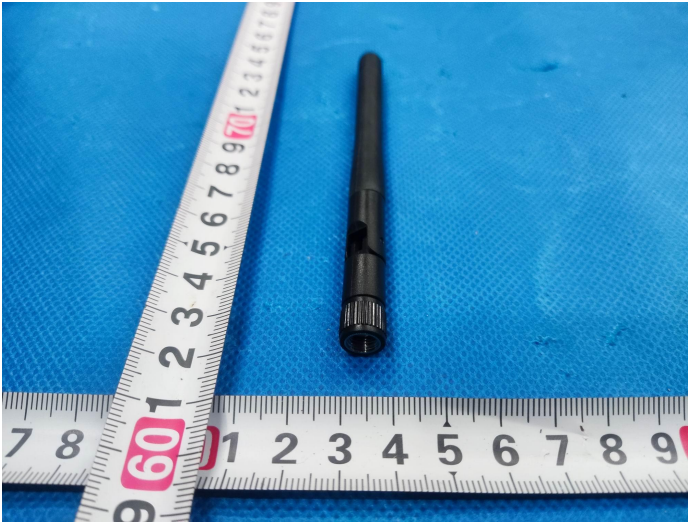
工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT

客户承认签章 :

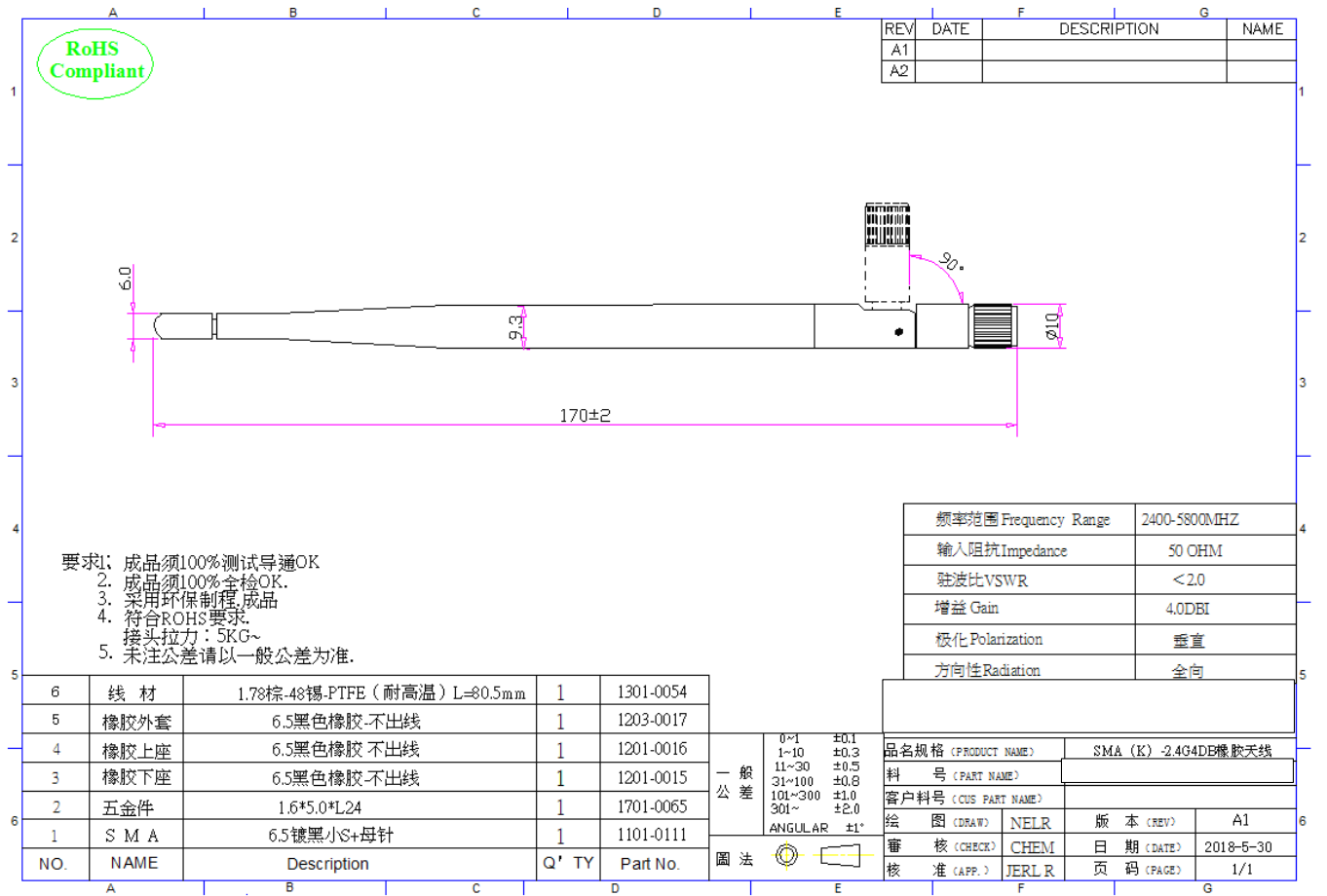
工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

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	3.28 dBi	GAIN	3.28 dBi
输入阻抗	50 Ω	Input Impedance	50 Ω
机 械 指 标		Mechanical Specifications	
天线颜色	黑色	Antenna Color	BLACK
接口形式	SMA-母孔	Input connector	SMA-K
线长度	170mm	Cable length	170mm
工作温度	-40℃ ~+85℃	Working Temperature	-40℃ ~+85℃
工作湿度	20~80%	Working Humidity	20~80%

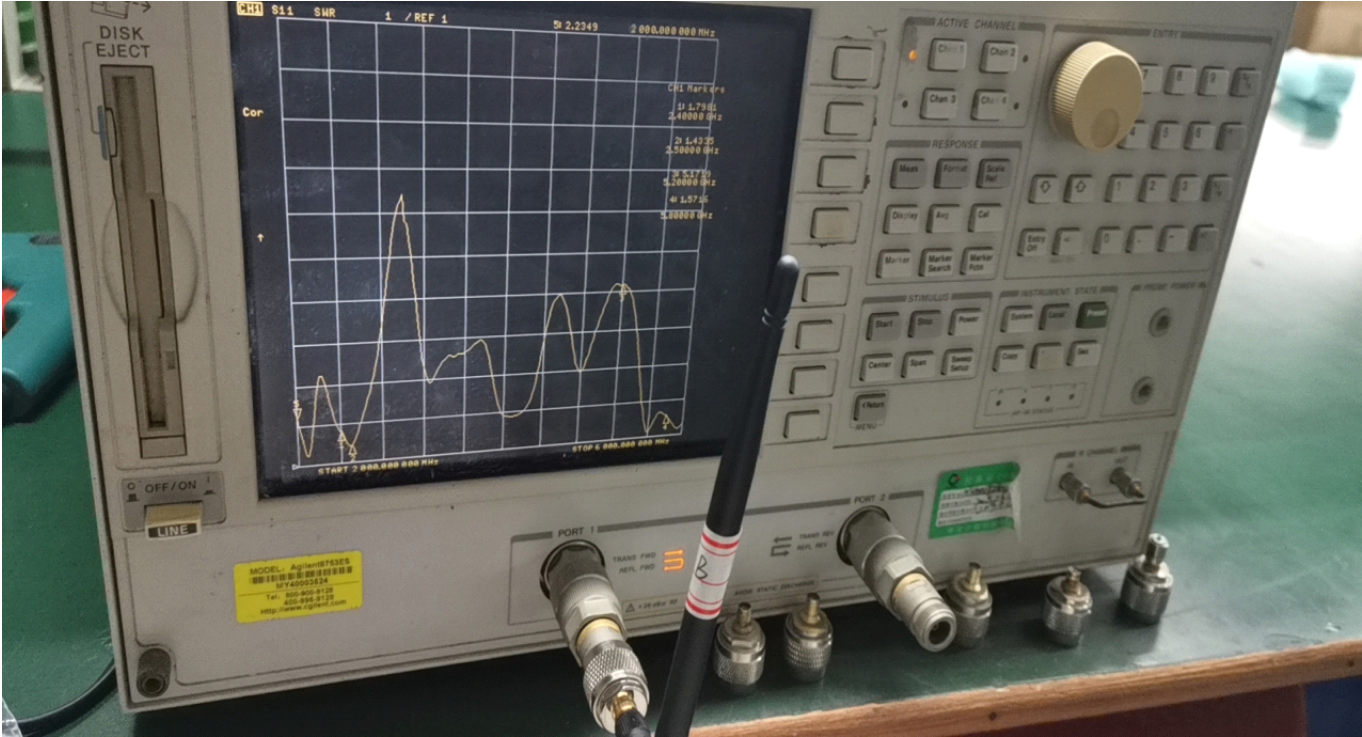
产品图片（Product picture）：



规格图纸 (Product Specification) :

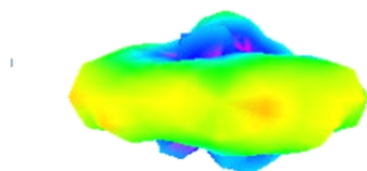


Agilent network analyzer test chart:

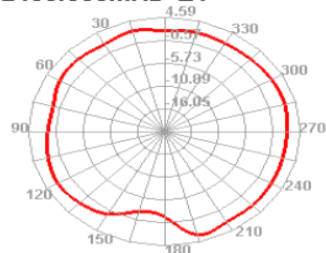


Gain test(dBi):

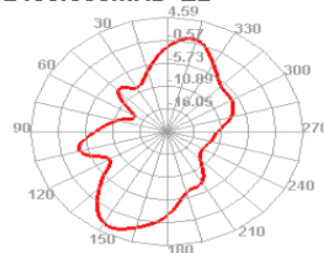
2400.000MHz



2400.000MHz E1



2400.000MHz E2

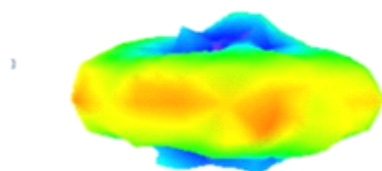


2.4GHz

Gain: 3.19dBi

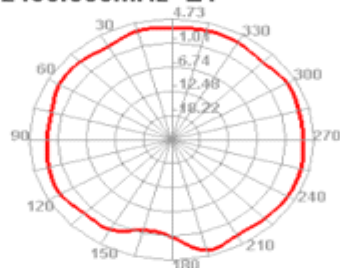
Efficiency: 68.78%

2450.000MHz



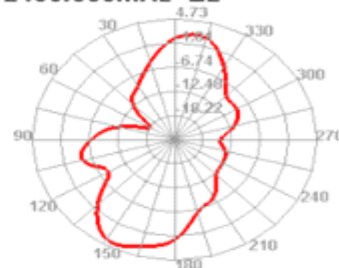
2.45GHz

2450.000MHz E1



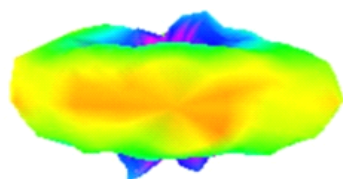
Gain: 3.28dBi

2450.000MHz E2



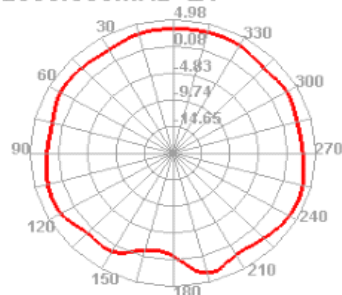
Efficiency: 67.43%

2500.000MHz



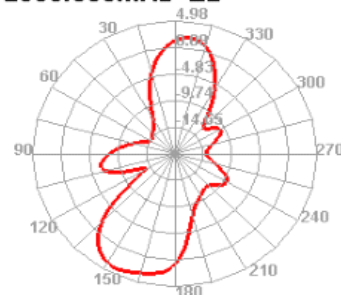
2.5GHz

2500.000MHz E1



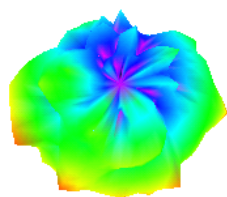
Gain: 3.23dBi

2500.000MHz E2

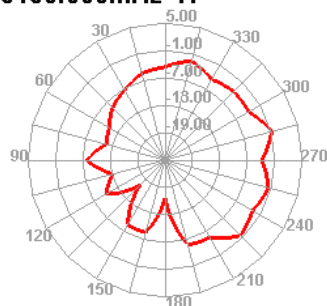


Efficiency: 68.49%

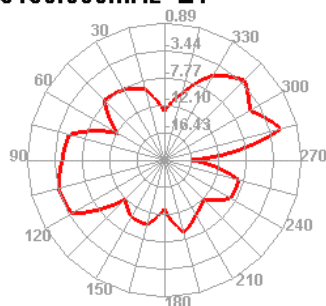
5150.000MHz



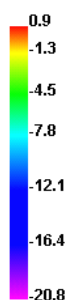
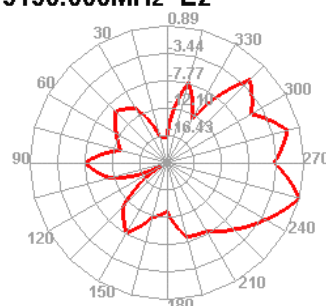
5150.000MHz H



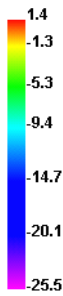
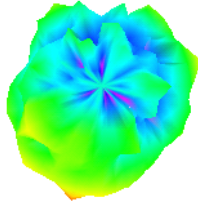
5150.000MHz E1



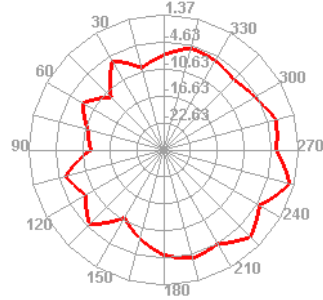
5150.000MHz E2



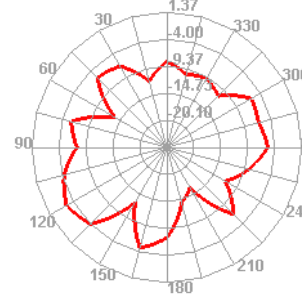
5450.000MHz



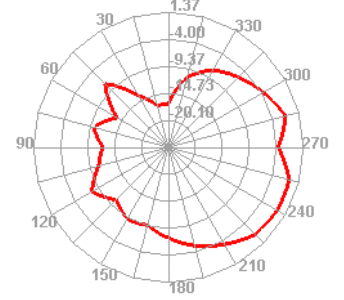
5450.000MHz H



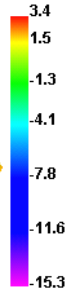
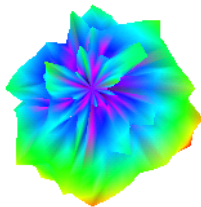
5450.000MHz E1



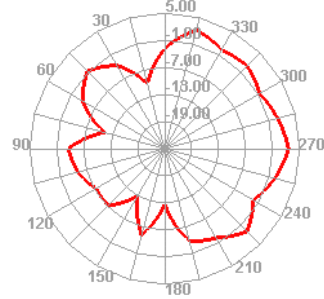
5450.000MHz E2



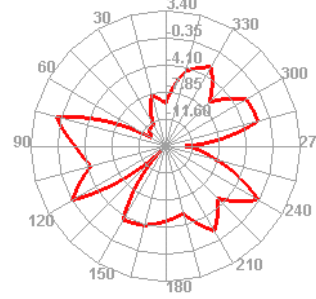
5850.000MHz



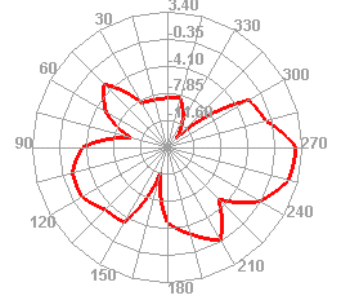
5850.000MHz H



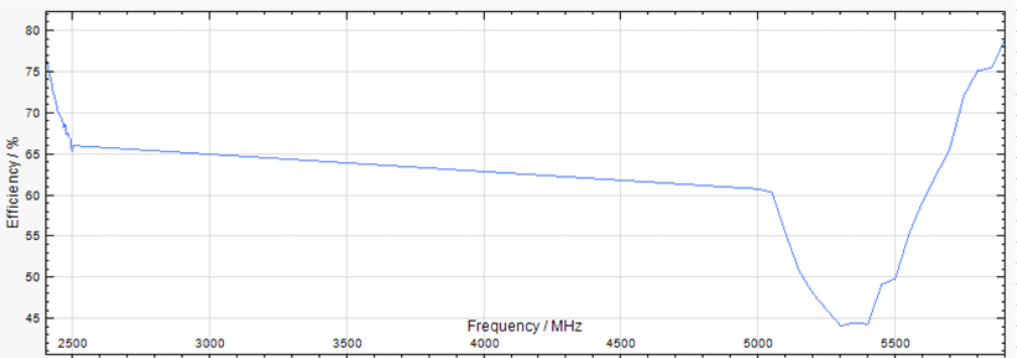
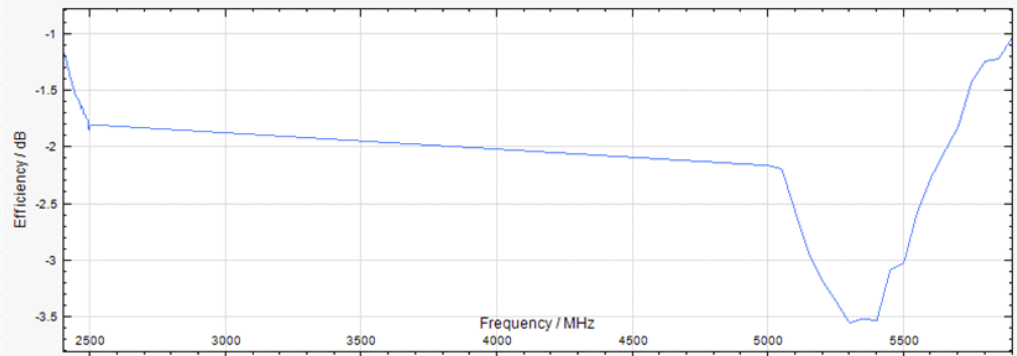
5850.000MHz E1



5850.000MHz E2



Frequency	Efficiency	Efficiency / %
2400	-1.15	76.74
2405	-1.19	76.03
2410	-1.22	75.51
2415	-1.28	74.47
2420	-1.31	73.96
2425	-1.38	72.78
2430	-1.41	72.28
2435	-1.46	71.45
2440	-1.49	70.96
2445	-1.55	69.98
2450	-1.56	69.82
2455	-1.58	69.5
2460	-1.6	69.18
2465	-1.66	68.23
2470	-1.63	68.71
2475	-1.71	67.45
2480	-1.7	67.61
2485	-1.74	66.99
2490	-1.75	66.83
2495	-1.85	65.31
2500	-1.8	66.07
5000	-2.16	60.81
5050	-2.19	60.39
5100	-2.57	55.34
5150	-2.94	50.82
5200	-3.18	48.08
5250	-3.36	46.13
5300	-3.55	44.16
5350	-3.51	44.57
5400	-3.53	44.36
5450	-3.08	49.2
5500	-3.02	49.89
5550	-2.57	55.34
5600	-2.27	59.29
5650	-2.04	62.52
5700	-1.82	65.77
5750	-1.42	72.11
5800	-1.24	75.16
5850	-1.22	75.51
5900	-1.03	78.89



Environmental performance test:

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