
承 认 书

SPECIFICATION FOR APPROVAL

客户名称 Customer Name : _____

产品型号 Product Model : External rubber stick antenna

客户料号 Customer P/N : 10204102001004

XHY 料号 XINHENG YANG P/N : W. 01. 00001033

产品规格 SPECIFICATIONS: 频段: 2400MHZ-2500MHZ
5150MHZ-5850MHZ

制作日期 Production date : 2024-03-21

封样版本 Sample Version : V1.0

一、基本参数

[illegible]

A. Electrical Characteristics

Frequency	2400MHZ-2500MHZ 5150MHZ-5850MHZ
VSWR	< 2.5
Avg Efficiency	2.4G>50% 5G>50%
Impedance	50 ± 25 Ohm
Polarization	Linear
Peak Gain	2.4G : 5±1dBi 5G: 5±1dBi
B. Material & Mechanical Characteristics	
Material of Radiator	AP 胶棒天线 black
Cable Type	/
Connector Type	SMA-J
Dimension	195mm±3mm
C. Environmental	
Operation Temperature	- 20 °C ~ + 60 °C
Storage Temperature	- 30 °C ~ + 70 °C

二、电性规格 **Electrical Specifications**

Those specifications were specially defined for External rubber stick antenna model.

三、VSWR

1 测量方法 Test Method

1.A 50 Ω coaxial cable is connected to the antenna. Then this cable is connected to a network analyzer to measure the VSWR

2.Keeping this jig away from metal at least 20cm

2 测量频率点和驻波比 Measurement Frequency & VSWR



四、 暗室简介 Anechoic Chamber Introduction

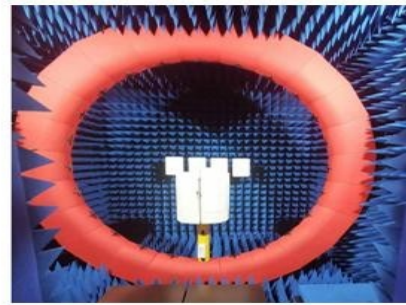
Introduction:

Microwave darkroom and no reflection chamber, absorbing short wave darkroom dark room. Microwave darkroom by electromagnetic shielding room, filtering and isolation, grounding device, the ventilation duct, indoor distribution system, monitoring system, ceiling wave material part. It is based on the wave absorbing material as the lining of the shield room, it can absorb the most of the electromagnetic energy into the six wall is a better simulation of the free space conditions.

The main working principle of microwave anechoic chamber is according to the electromagnetic wave in the medium from the low magnetic guide magnetic direction of propagation rules, absorbing materials to guide the electromagnetic wave using high permeability, through resonance, a substantial absorption of electromagnetic wave radiation energy, by coupling the electromagnetic energy into heat energy.

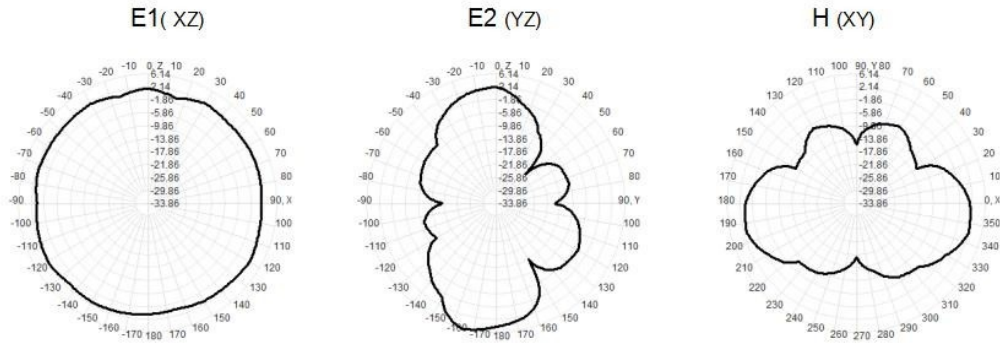
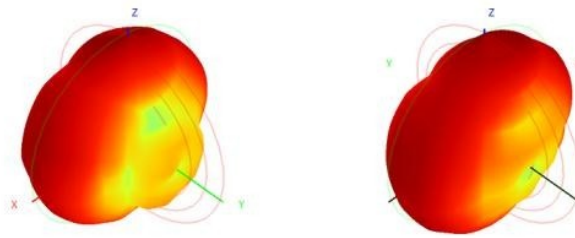
main performance :

Frequency range:400MHz ~ 6GHz ceiling reflected wave loss materials: 400MHz ~ 6GHz is equal to or more than 15dB (microwave absorbing material by composite wave absorbing materials, namely tapered containing carbon sponge suction wave material paste in ferrite)



五、天线性能 Antenna Performance

2400MHZ-2500MHZ

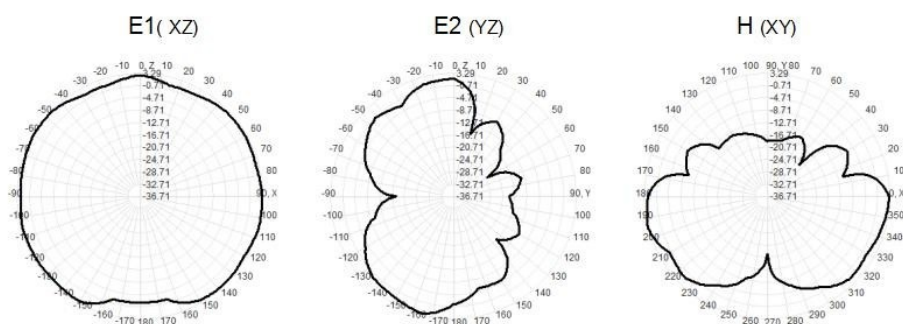
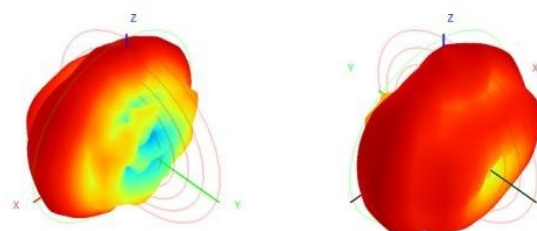


无源效率增益

Passive Efficiency & Gain Table

Freq (MHz)	Efficiency (%)	Gain (dBi)	Freq (MHz)	Efficiency (%)	Gain (dBi)
2400	57.37	3.00	2460	82.02	4.40
2410	63.06	3.35	2470	84.87	4.40
2420	68.65	3.80	2480	85.40	4.47
2430	72.22	4.02	2490	79.01	4.28
2440	76.24	4.24	2500	71.91	3.94
2450	78.70	4.30			

5150MHZ-5850MHZ

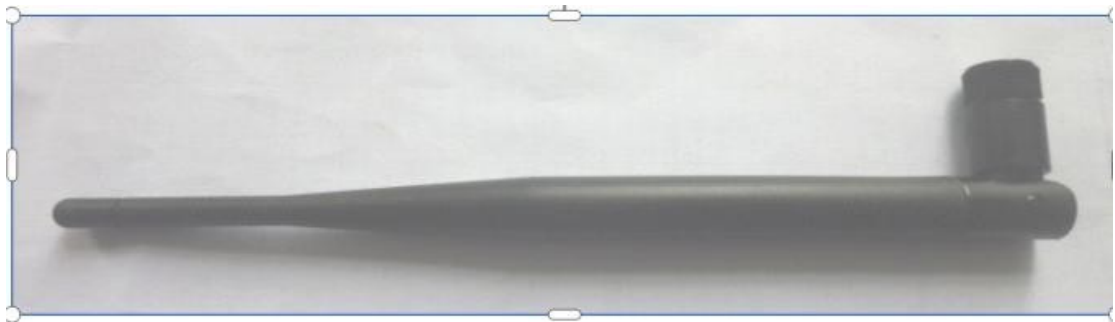


无源效率增益

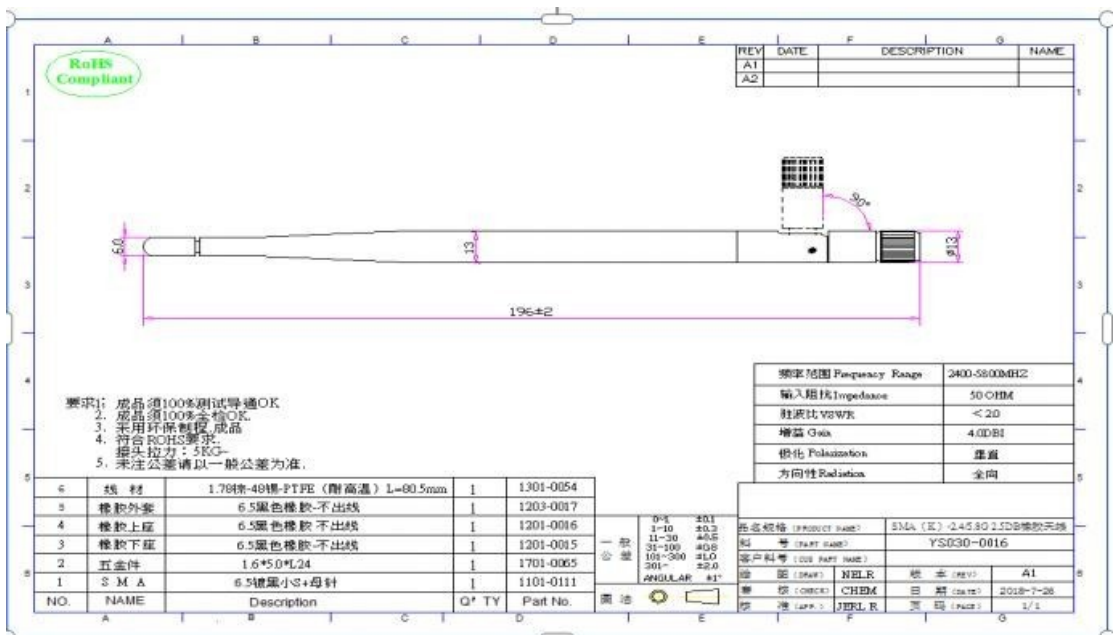
Passive Efficiency & Gain Table

Freq (MHz)	Efficiency (%)	Gain (dBi)	Freq (MHz)	Efficiency (%)	Gain (dBi)
5150	56.56	3.10	5500	70.95	3.17
5250	62.65	4.00	5550	68.17	3.32
5275	65.40	4.71	5600	62.89	3.85
5300	64.36	4.29	5625	56.79	3.49
5350	71.92	3.19	5675	63.83	4.11
5400	72.98	3.67	5750	66.03	3.36
5425	65.71	4.56	5800	58.73	3.52
5450	63.66	4.52	5850	51.55	3.86

六、天线图片 Antenna Photo



七、天线图纸尺寸 Antenna Drawing



八、ROHS

Antenna W.01.00001033 meets RoHS requirements.

九、 产品包装说明 Packaging

A. packing should meet the moistureproof, vibration, pressure and mildew proof, etc.

B. the smallest packing unit logo must have the manufacturer trademarks, product model, name, code and quantity.

C. in the attached packing list, certificate of approval, and the factory inspection report.

*****END*****