

产品规格承认书

Product specifications
acknowledgment

承认厂商: _____

(Recognized manufacturers)

制造厂商: 深圳市蝙蝠无线技术有限公司

(Manufacturer)

产品名称: 2.4G 贴片天线

(Description)

地址 (Address): 1409, Building A, Zhiyun One Industrial Park, No. 13 Huaxing Road, Henglang Community,
Dalang Street, Shenzhen, Guangdong, China

产品选型表:

(Product Type)

型号	说明	备注
BW2.4GTWX115-22L1000J	SMA 内螺内针	线长可选配

供应商承认签栏

制表者	审核者	核准者

客户承认栏

审核者	核准者



1.1 Specifications

天线型号 Antennas Type	BW2.4GTWX115-22L1000J
频率范围 Frequenc Range (MHz)	2400-2500
输入阻抗 Input Impedence (Ω)	50 Ω
电压驻波比 V. S. W. R	<2
增益 Gain (dBi)	3.02dBi
极化形式 Polarization Type	垂直 Vertical
功率容量 Power Capacity (w)	50
雷电保护 Lingtning Protection	None
工作电压 DC Voltage (V)	None
天线尺寸 Dimension (mm)	115x22
接口形式/Connector Type:	SMA 内螺内针
电缆型号 Cable type (mm)	RG174
电缆长度 Cable length (mm)	1000
辐射体 Radiator	None
天线颜色 Color	黑色 Black
重量 Weight (g)	None
工作温度 Operating Temperature ($^{\circ}\text{C}$)	-40~80
储藏温度 Storage Temperature ($^{\circ}\text{C}$)	-20~85

*注：以上数据仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。

1.2 Antenna Picture



上图型号：BW2.4GTWX115-22L1000J

（可定制）

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2. Electrical Specification

2.1 Test Equipment

- A. VSWR and input impedance: Agilent 8753/E5071 Network Analyzer
- B. Antenna gain and efficiency: ETS three-dimensional anechoic chamber

2.2 Test Setup

2.2.1 Frequency Range

2.2.2 VSWR

Step 1: The antenna is arranged on the customer provided test fixture.

Step 2: The VSWR of the antenna is measured via Agilent 8720/8753 Network Analyzer (see figure. 1).



Figure.1

2.2.3 Radiation pattern and Gain

- A. The 3D chamber provides less than -40dB reflectivity from 800MHz to 6GHz and a 40cm diameter spherical quiet zone. The measurement results are calibrated using both dipoles and standard gain horns (see figure. 2).
- B. The antenna under tested is arranged in the turned table and a decoupling sleeve is used to reduce feed line radiation (see figure. 3).
- C. The measured results of the radiation patterns and antenna gain are obtained from the control system and showed on the monitor (see figure. 4 and 5).

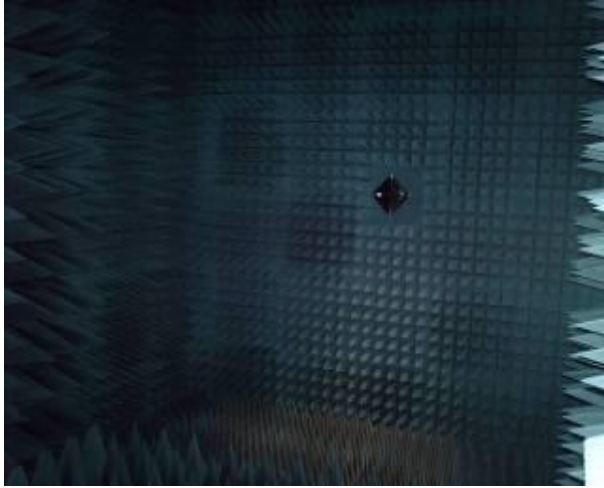


Figure.2



Figure.3

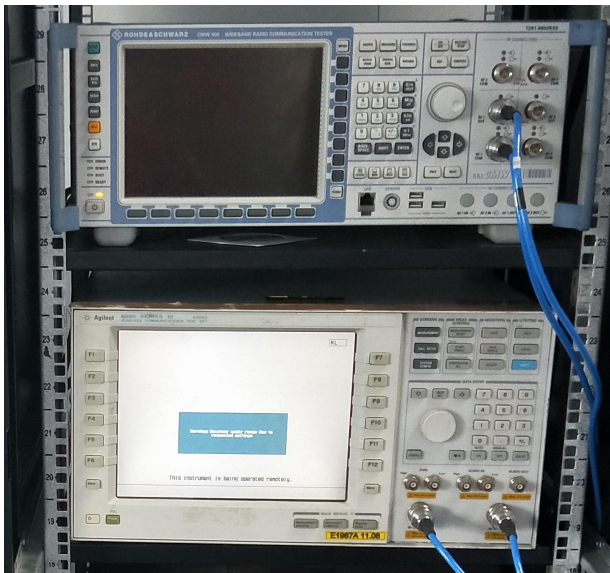


Figure.4

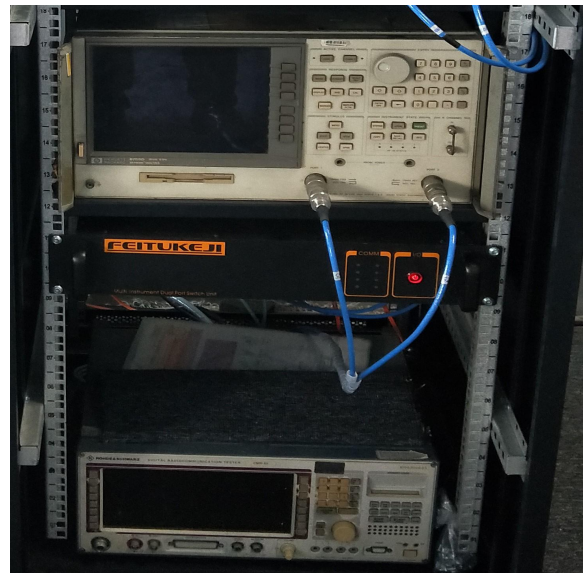


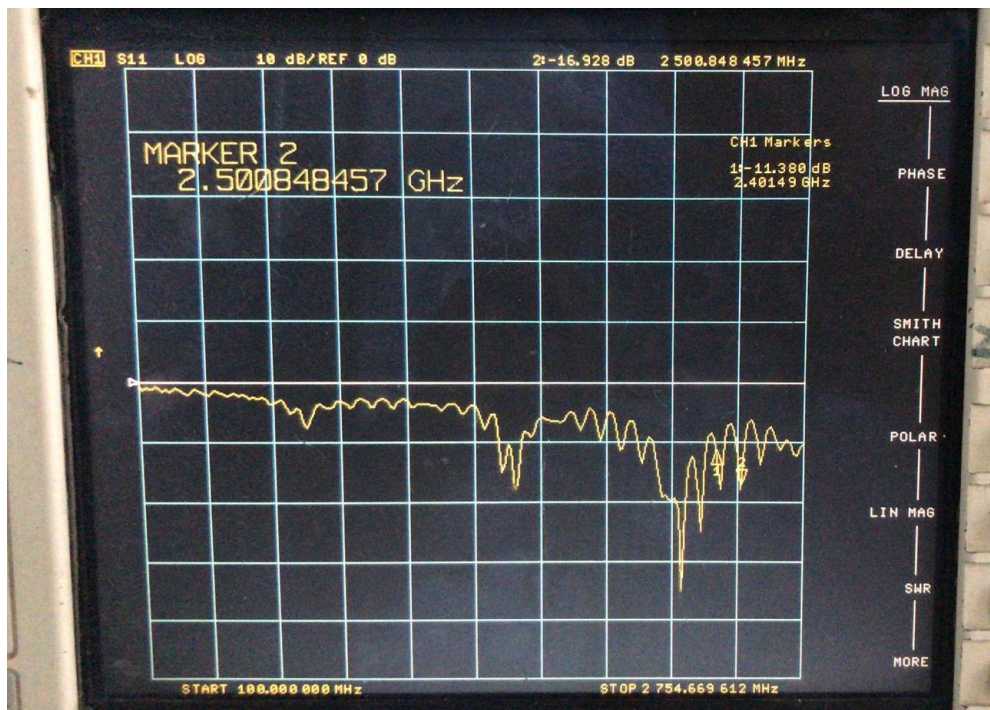
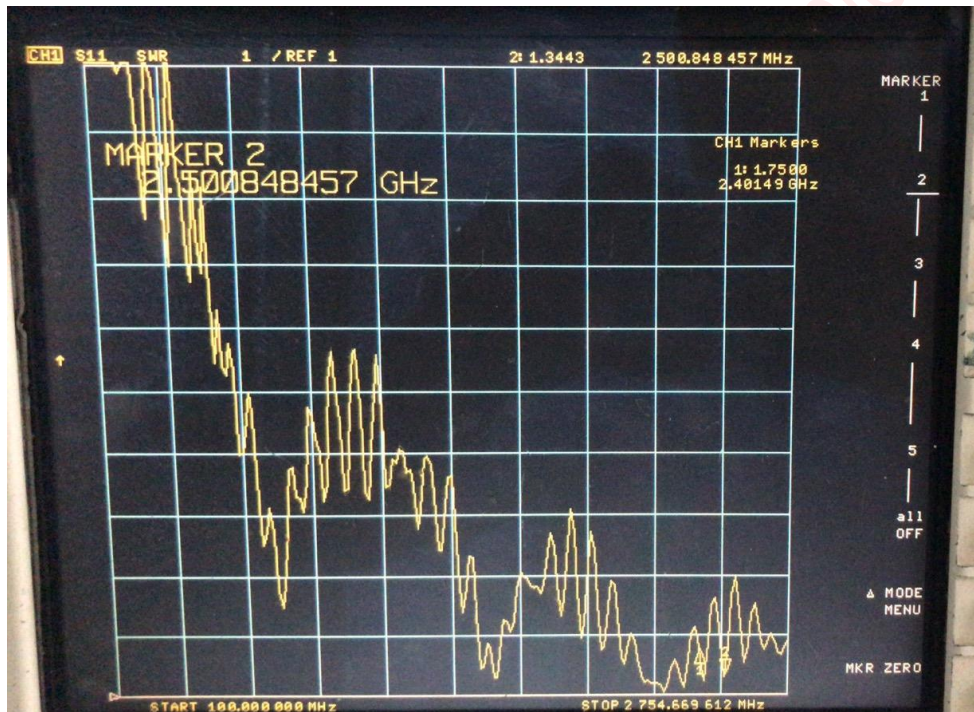
Figure.5



3. Performance Data

3.1 Passive data

VSWR (电压驻波比) / Return Loss (回波损耗) / Smith Chart (史密斯圆图)



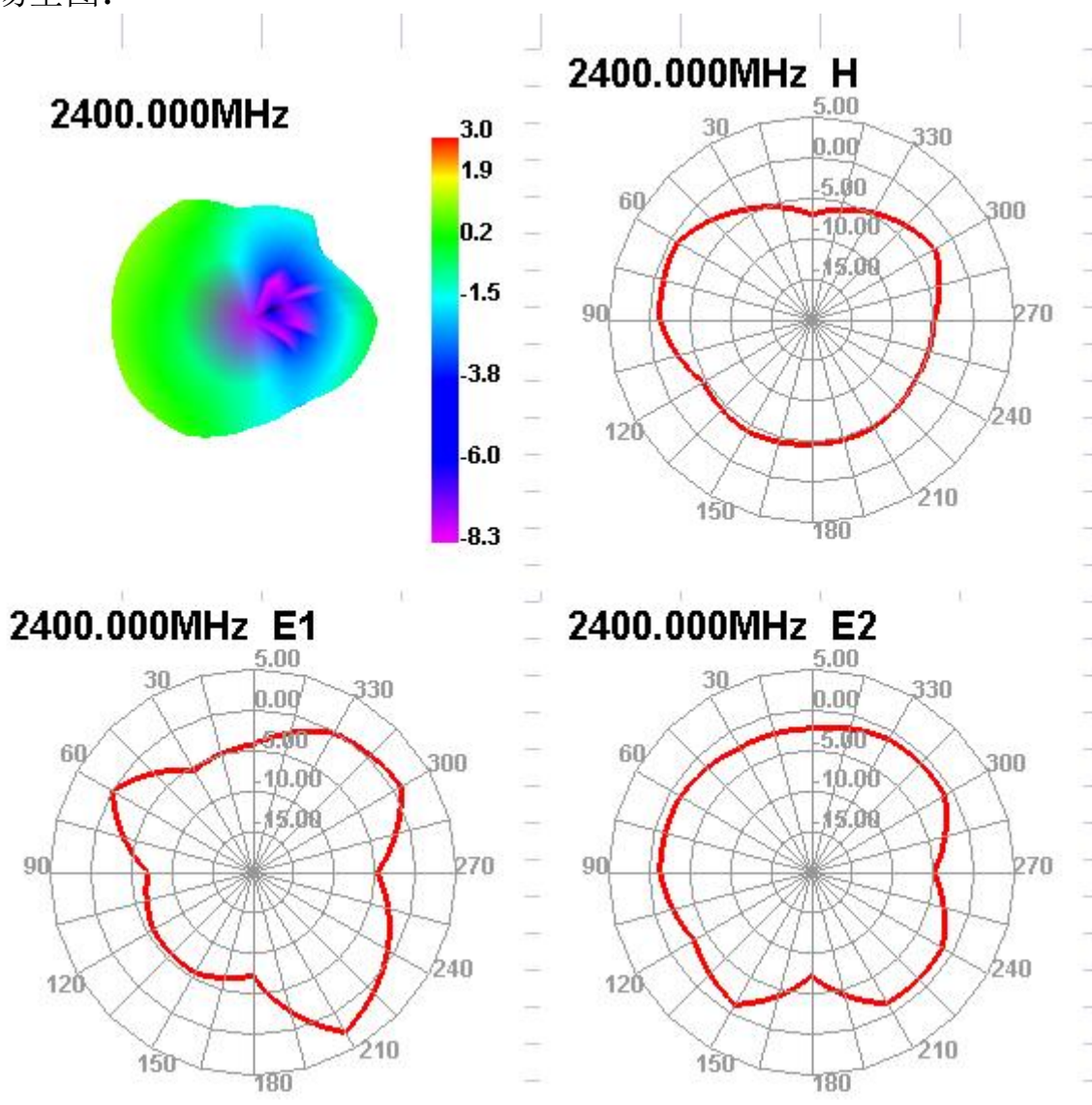
*注：以上为实测数据，仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。



增益图:

Passive Test For WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	65.99	-1.8	2.99	0.84	35.629	30.365	2.99	-8.28	48.09	47.94
2410	61.32	-2.12	2.62	0.47	32.762	28.557	2.62	-8.32	48.07	47.87
2420	60.58	-2.18	2.52	0.37	32.121	28.457	2.52	-8.49	48.18	48
2430	61.75	-2.09	2.58	0.43	32.561	29.188	2.58	-9.08	48.17	47.99
2440	64.63	-1.9	2.73	0.58	34.122	30.503	2.73	-9.66	48.33	48.11
2450	66.86	-1.75	2.86	0.71	35.326	31.534	2.86	-9.93	48.44	48.14
2460	67.45	-1.71	2.92	0.77	35.514	31.938	2.92	-9.82	48.41	48.06
2470	68.53	-1.64	3.02	0.87	35.718	32.817	3.02	-9.44	48.49	48.11
2480	67.12	-1.73	2.94	0.79	34.493	32.624	2.94	-11.1	48.63	48.18
2490	64.57	-1.9	2.74	0.59	32.811	31.763	2.74	-12.94	48.76	48.29
2500	63.95	-1.94	2.7	0.55	32.027	31.926	2.7	-14.21	48.69	48.16

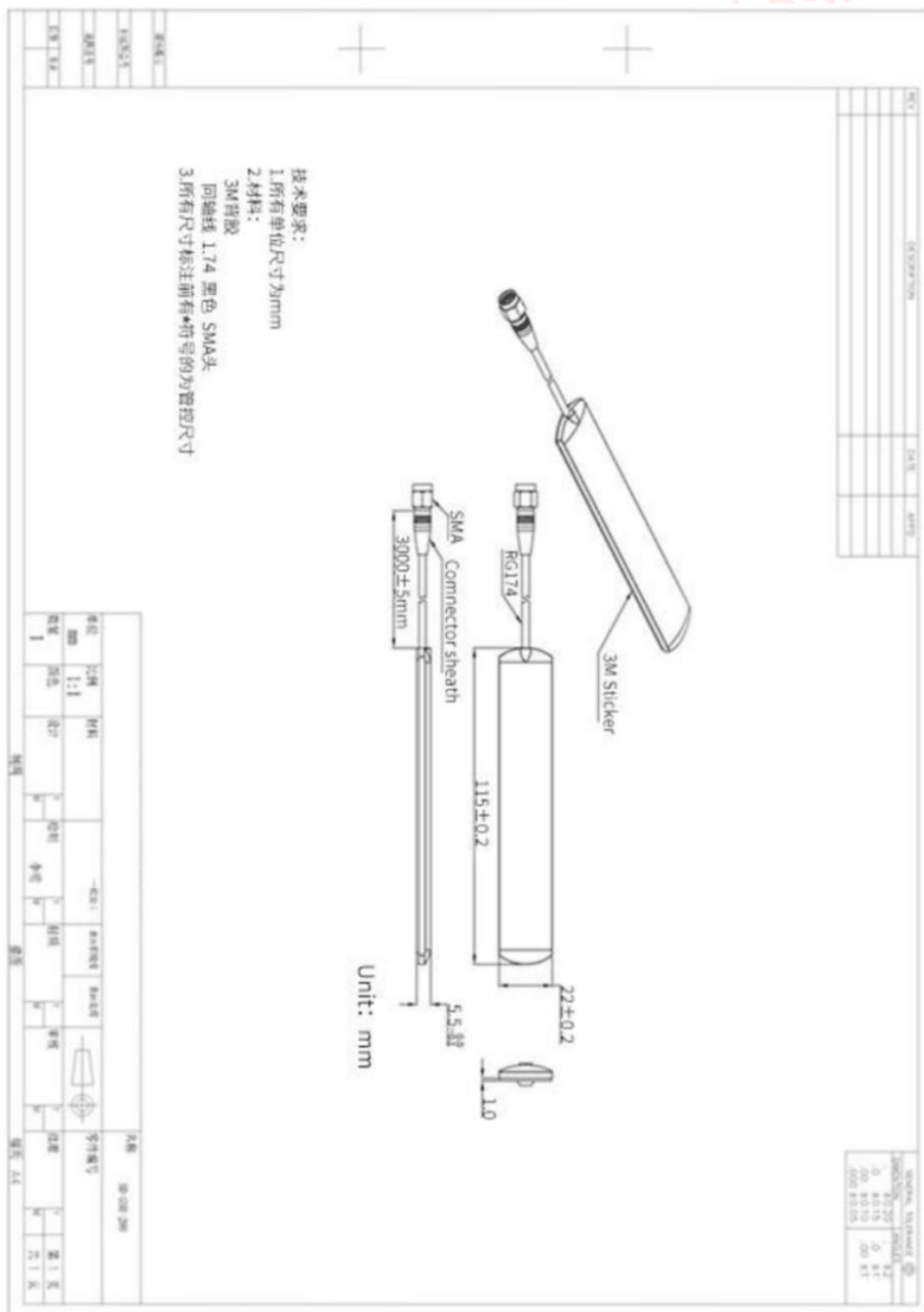
场型图:





4.Mechanical Specification

4.1 Assembly Drawing





5.免责声明(Disclaimer)：

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