

产品规格承认书

Product specifications
acknowledgment

承认厂商: _____

(Recognized manufacturers)

制造厂商: _____ Shenzhen Bat Wireless Technology Co., LTD

(Manufacturer)

产品名称: _____ 2.4G5.8G 双频天线

(Description)

日 期

(DATE) _____ 2022.9.20

产品选型表:

(Product Type)

型号	说明	备注
BW258FND30-8AT0.2L80-A	焊接端子 211	客户定制禁止外售

供应商承认签章栏

制表者	核准	业务

客户承认章栏

审核者	准核者

1.1 Specifications

Antennas Type	Antenna for 2.4G 5-5.8G application
Connector Type	competitor
Cable Type	1.13
Impedance	50 Ω
Polarization	Linea
Frequency	2.4-2.5GHz
VSWR	2.4-2.5GHz <2.0
Gain	2.4~2.5 GHz : 1.48dBi (Peak gain)
Rad. efficiency	2.4~2.5 GHz >50%
Cable type	OD:1.13mm
Cable length	80mm

1.2 Antenna Picture



FPC 大小：30*8 mm （实物图供参考）

（定制客户中间连接线长度定制，天线形状定制）

*天线功能较为敏感，主体周边机构有变更请通知我们评估

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

- A. 802.11.a/b/g/n/ac:

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).

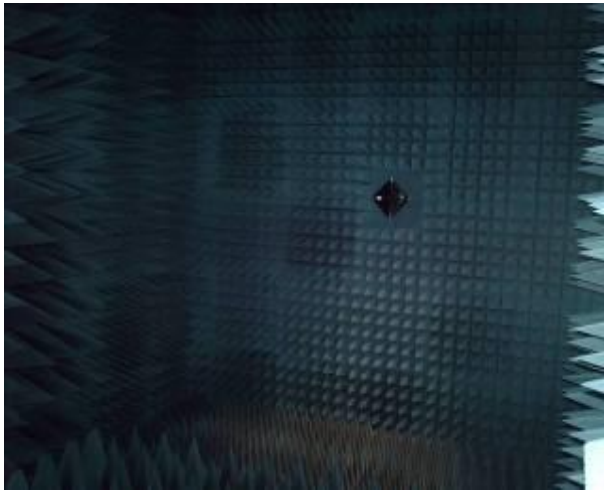


Figure.2



Figure.3

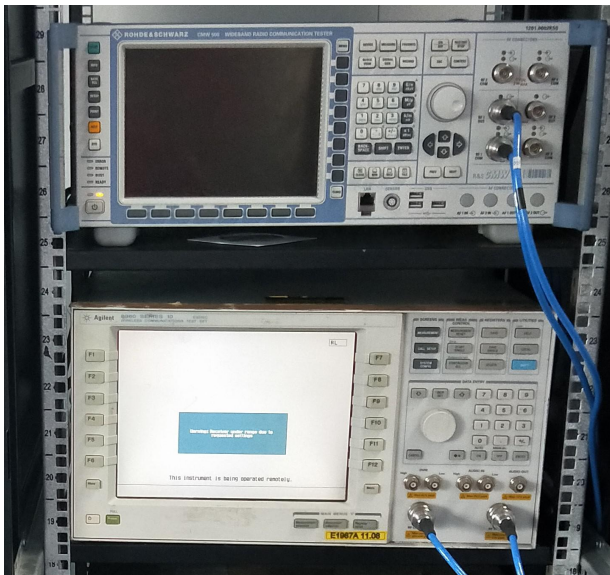


Figure.4

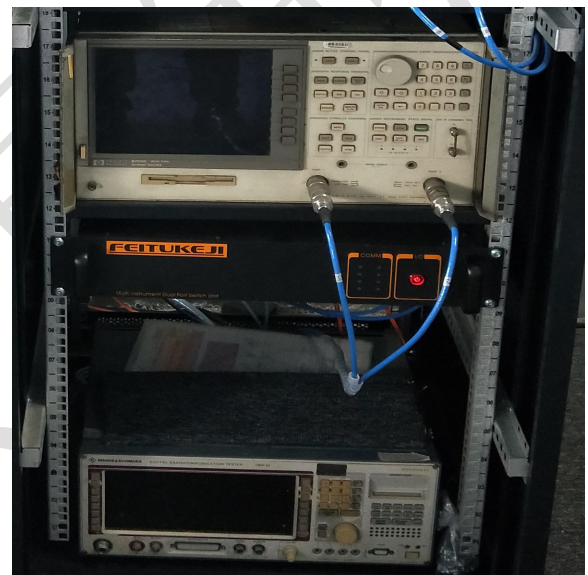


Figure.5

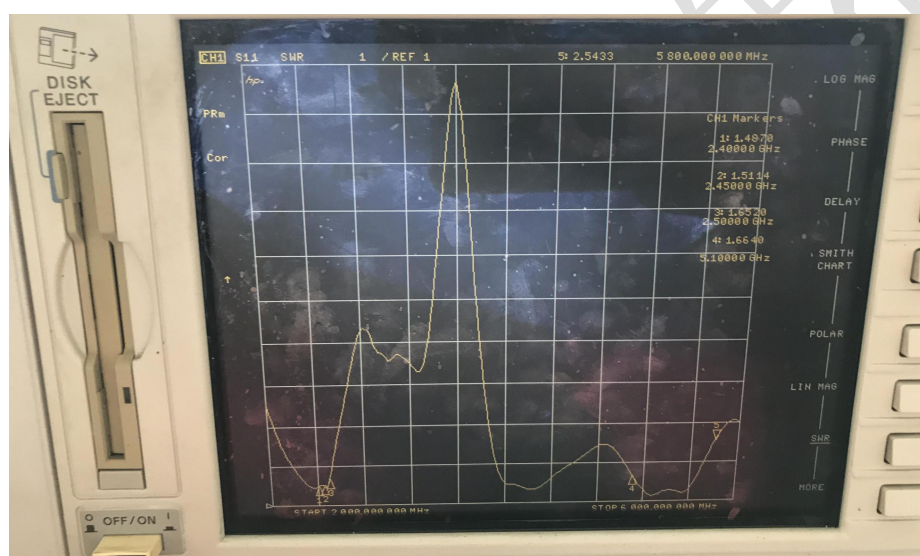
3. Performance Data

3.1 Passive data

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

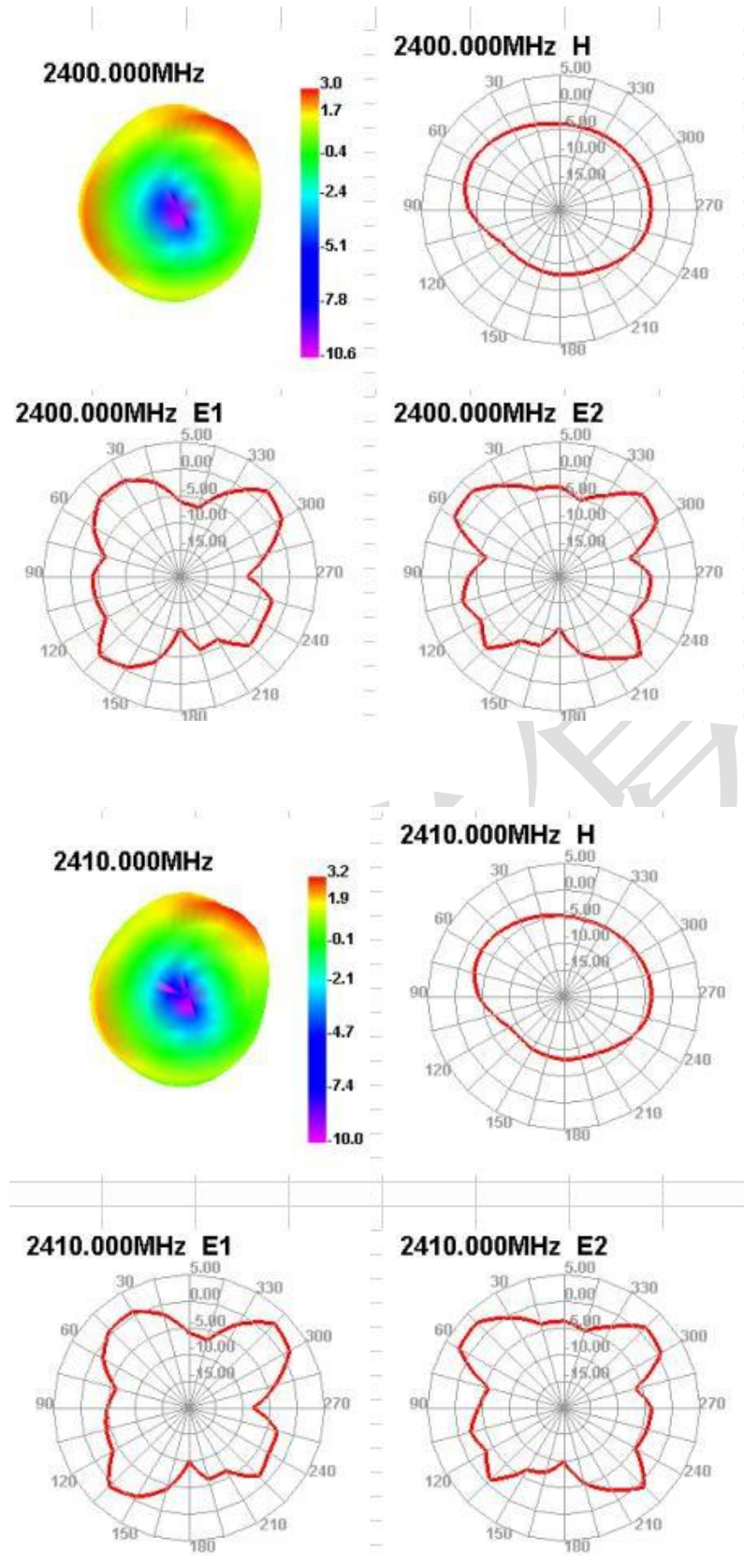
测试环境: 温度: 10℃——+30℃ 相对湿度: ≤80% (+40℃) 大气压力: 750mmkg±30mmkg	测试设备: HP8753D 网络分析仪 ETS 微波暗室
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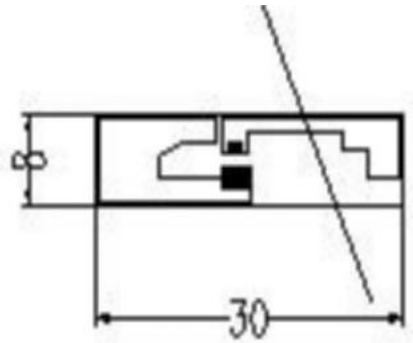
(1)产品的 S11 图值: VSWR



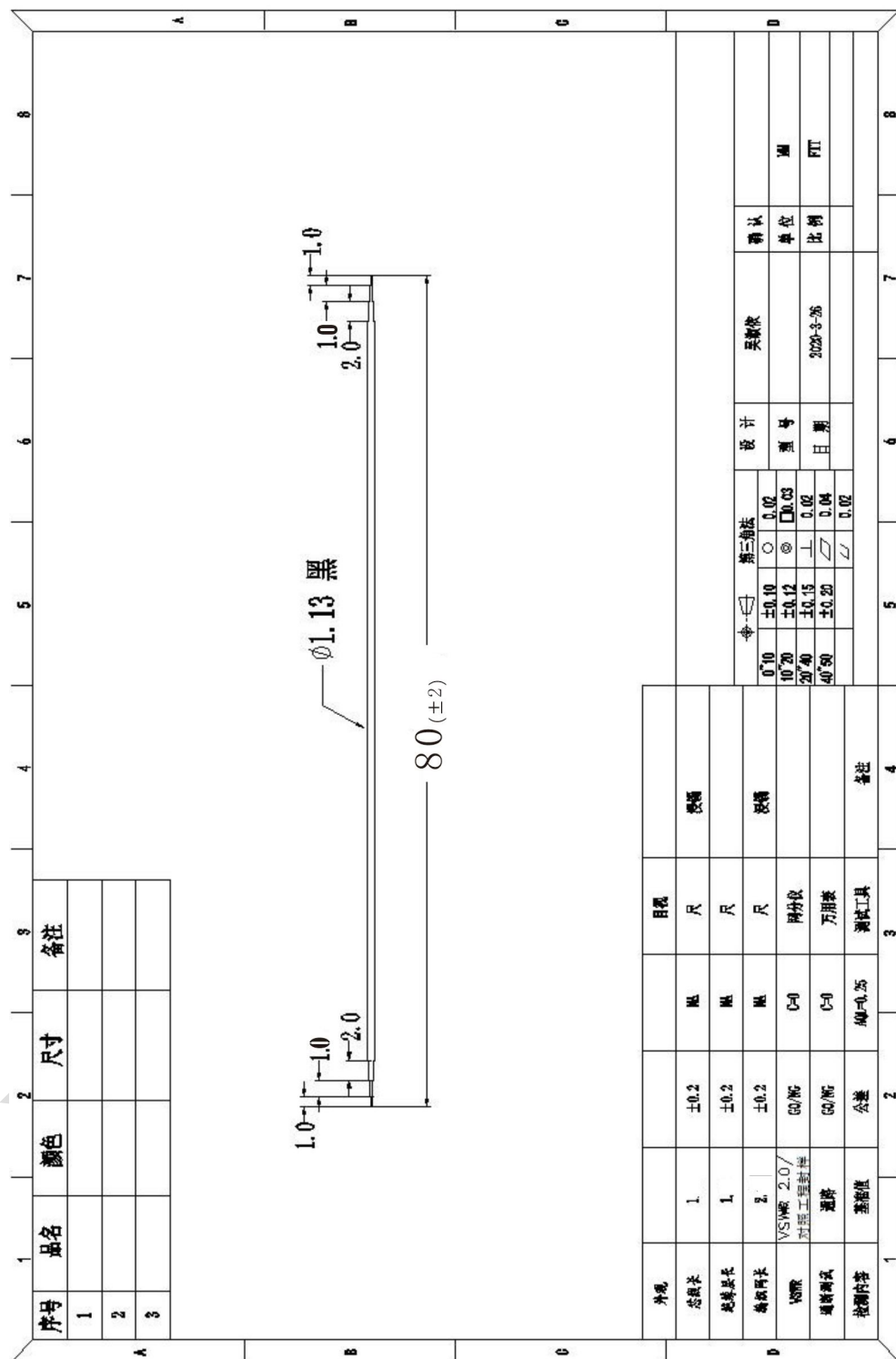
Passive Test For WIFI								
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	49.22	-3.08	1.3	-0.85	1.3	-17.14	48.09	47.94
2410	49.19	-3.08	1.23	-0.92	1.23	-16.88	48.07	47.87
2420	48.97	-3.1	1.12	-1.03	1.12	-16.27	48.18	48
2430	48	-3.19	1	-1.15	1	-15.74	48.17	47.99
2440	49.81	-3.03	1.21	-0.94	1.21	-15.97	48.33	48.11
2450	51.97	-2.84	1.44	-0.71	1.44	-16.43	48.44	48.14
2460	51.39	-2.89	1.4	-0.75	1.4	-17.57	48.41	48.06
2470	51.84	-2.85	1.43	-0.72	1.43	-17.85	48.49	48.11
2480	52.99	-2.76	1.48	-0.67	1.48	-17.28	48.63	48.18
2490	53.53	-2.71	1.45	-0.7	1.45	-16.92	48.76	48.29
2500	50.61	-2.96	1.1	-1.05	1.1	-17.94	48.69	48.16

3.2 Radiation Pattern (辐射场型)





- 注：1. 背胶3M9471;
2. 油墨：哑光黑色;
3. PI基材(一对一+电解铜).



RF113 规格

1. 适用范围

本规格书制定了电线的结构和电气特性

同轴线
AWG 32

1. Scope

This specification covers the construction and the electrical properties of wire.

Coaxial Wire
AWG 32

2. 结构/Construction

单位/Unit: mm

项目/Item		单位/Unit	详细资料/Details
Conductor 导体	材料/Material	-	绞合镀银铜丝 Silver-coated copper wire
	构成/Composition	(No./mm)	7/0.08
	外径/OD.	mm	0.24
	绞向/Orientation	-	S
Insulation 绝缘层	材料/Material	-	FEP(进口料)
	绝缘颜色/Insulation color	-	本色/Natural
	标称绝缘厚度/ Nom. Thickness	mm	0.22
	绝缘线径/OD.	mm	0.69
Braid Shield 编织	材料/Material	-	镀锡铜丝 Tinned copper wire
	构成/Composition	(No./mm)	16/4/0.05
	编织密度/Coverage	(%)	≥90
Jacket 外被	材料/Material	-	FEP
	标称绝缘厚度/ Nom. Thickness	mm	0.12
	外径/OD.	mm	1.13±0.10

3. Electrical Properties (at 20℃) /电气特性(20℃时)

项目/Item	单位/Unit	详细资料/Details
导体电阻/Conductor Resistance	Ω/km	571 (Max.)
绝缘电阻/Insulation Resistance	MΩ • km	100 (Min.)
耐压强度(AC)/Dielectric Strength(AC)	V/ 1 Min	500
特性阻抗/Impedance	Ω	50±3
耐温等级/ Temperature	℃	200
额定电压/rated voltage	V	30

4. 电线截面图示如下:

