

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：_____

2.4G 同轴天线

(Description)

地址 (address) :Room 1301, 13th Floor, No. 8 Langhua Road, Xinshi Community,
Dalang Street, Longhua District, Shenzhen

产品选型表：

(Product Type)

型号	说明	备注
IPEX1-0300-1.13L65	IPEX-1 剥线 0:30:0 (线芯) OD1.13 线 长 65mm	订制款

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	IPEX1-0300-1.13L65
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)	2.63dBi
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)	65*1.13
接口形式/Connector Type:	IPEX-1
电缆型号 Cable type (mm)	Φ 1.13
电缆长度 Cable length (mm)	65
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：IPEX1-0300-1.13L65 图片仅供参考

（定制客户中间连接线长度定制，天线形状定制）

*注： 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。

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).

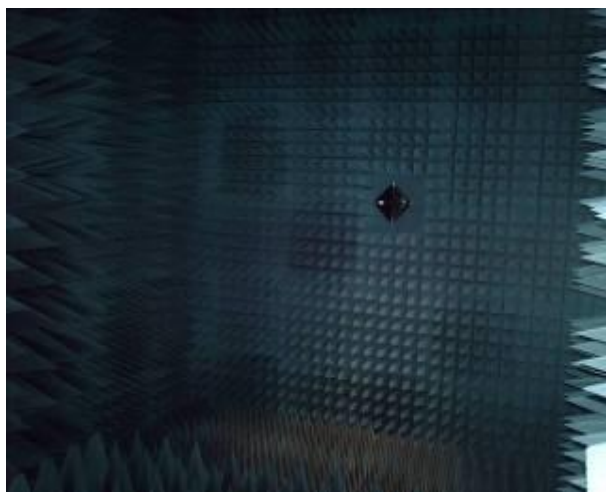


Figure.2



Figure.3

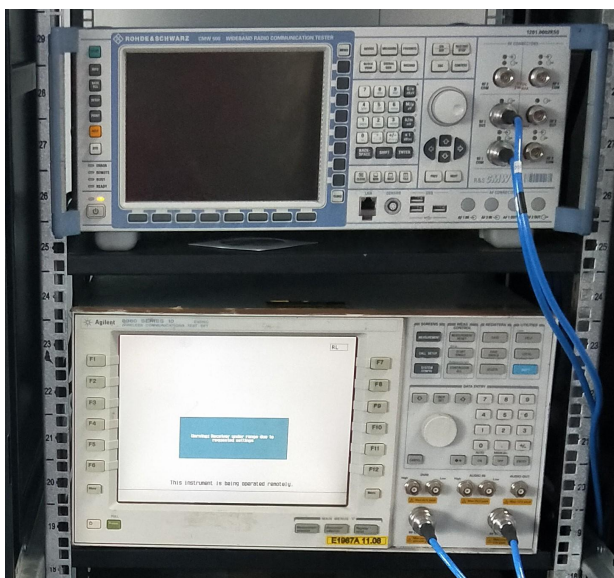


Figure.4

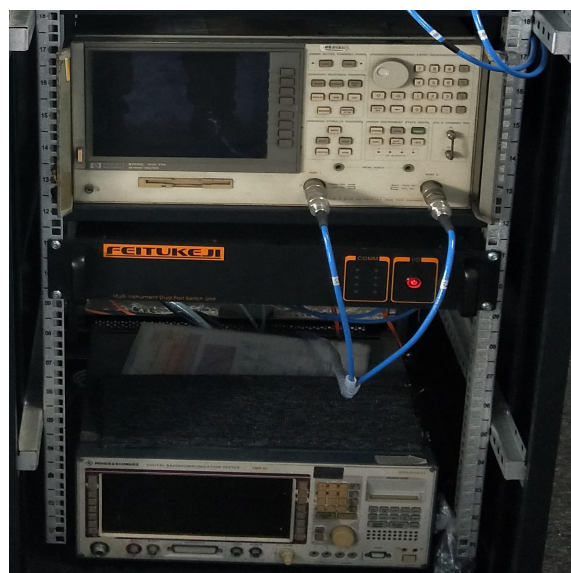
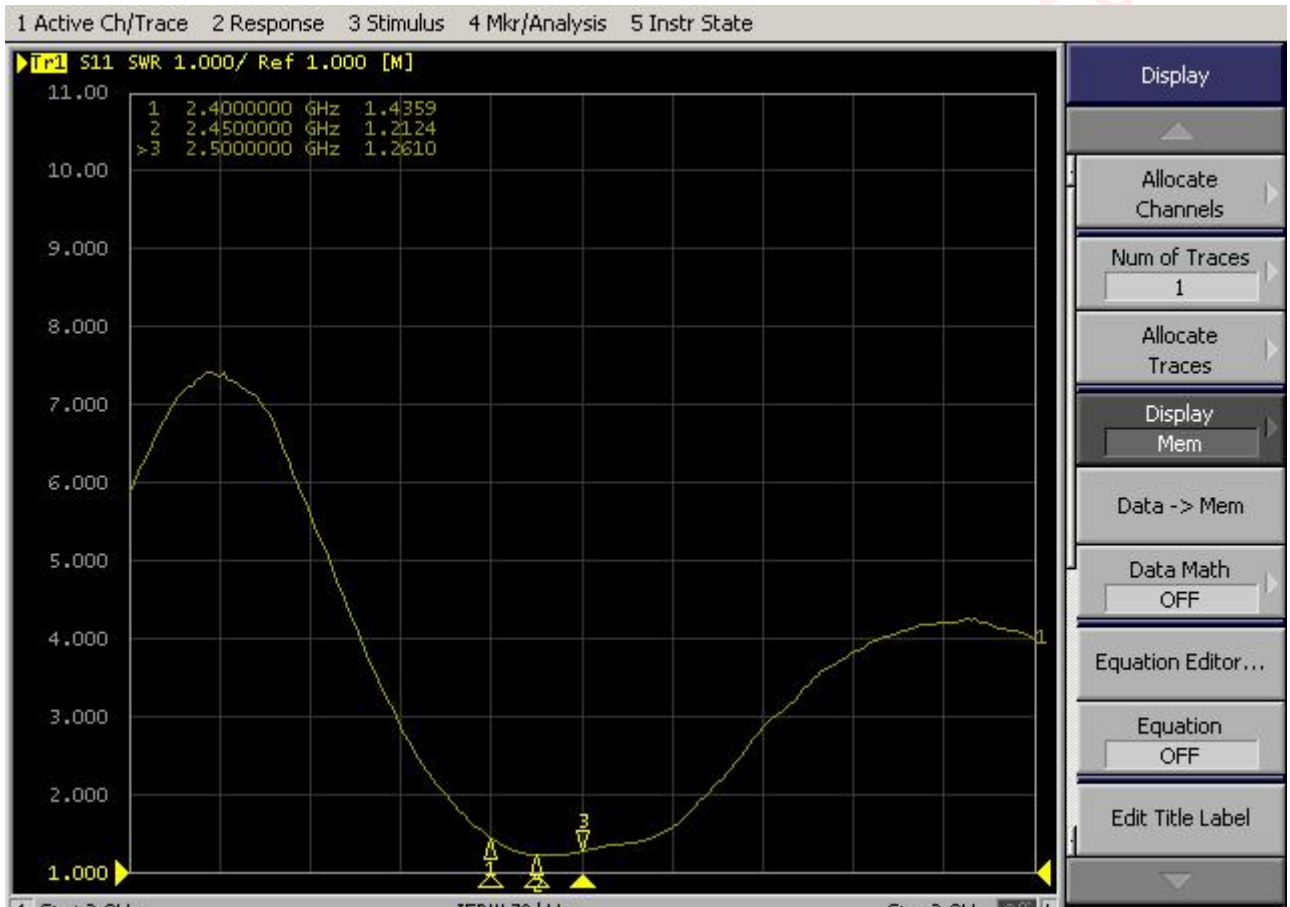


Figure.5

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)

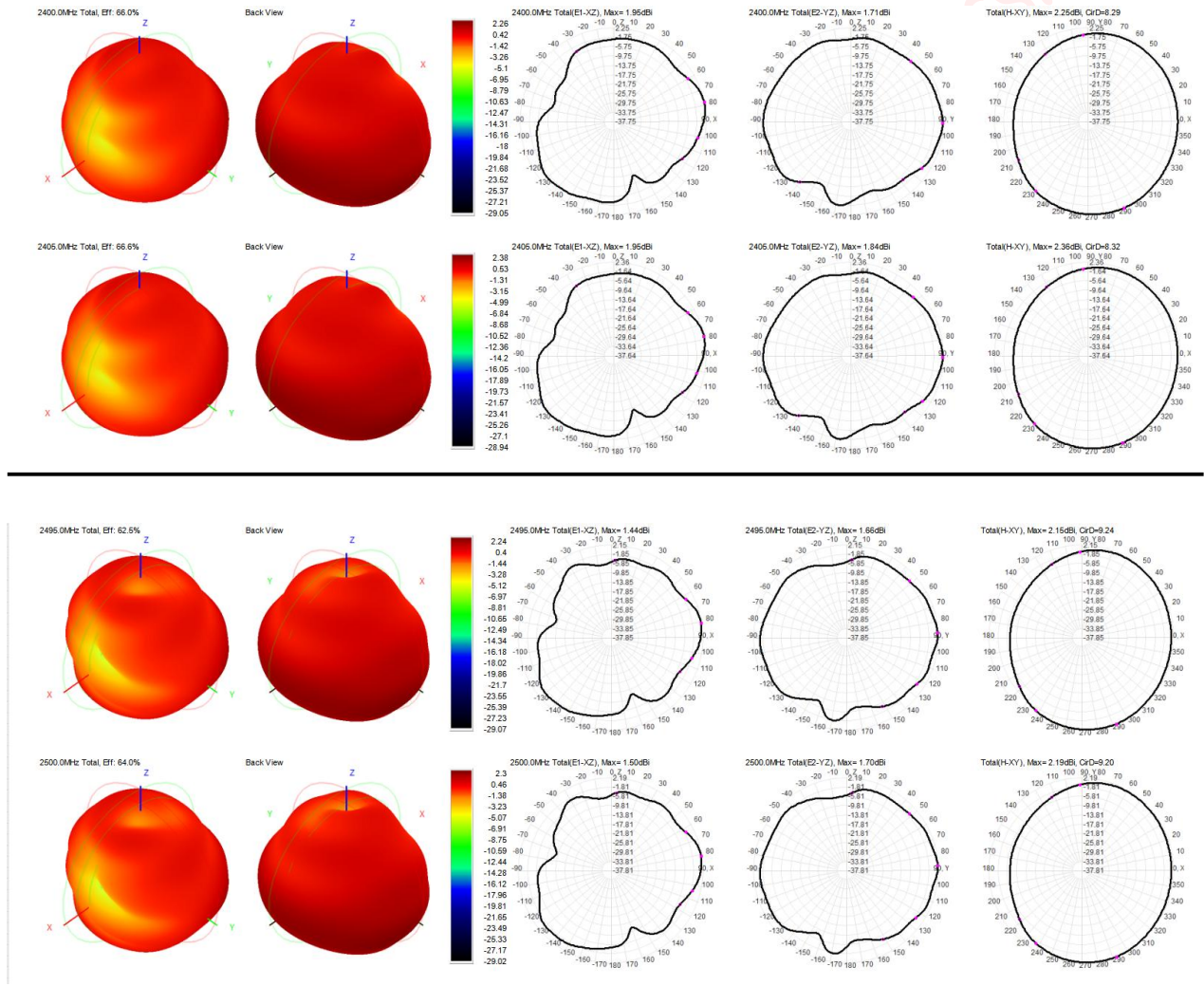


*注：以上为实测数据，仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。

增益：

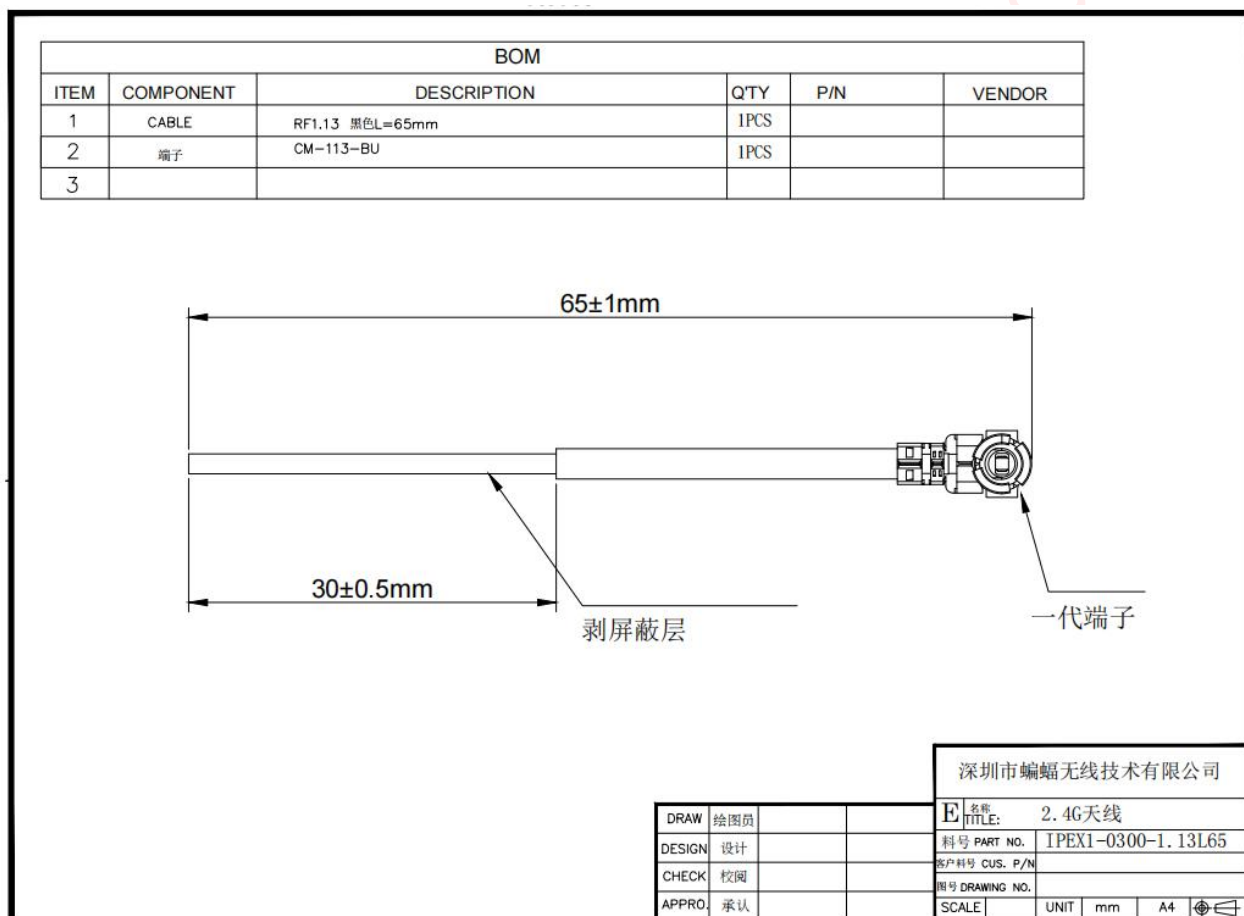
Frequency ID	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
Frequency (MHz)	2400.0	2405.0	2410.0	2415.0	2420.0	2425.0	2430.0	2435.0	2440.0	2445.0	2450.0	2455.0	2460.0	2465.0	2470.0	2475.0	2480.0	2485.0	2490.0	2495.0	2500.0
Efficiency (dBi)	-1.81	-1.77	-1.68	-1.66	-1.66	-1.73	-1.82	-1.89	-1.96	-1.96	-1.86	-1.82	-1.87	-1.88	-1.87	-2.01	-2.15	-2.04	-2.00	-2.04	-1.94
Gain (dBi)	2.26	2.38	2.52	2.60	2.63	2.59	2.50	2.41	2.34	2.34	2.45	2.52	2.51	2.53	2.57	2.43	2.28	2.35	2.32	2.24	2.30
Efficiency (%)	65.99	66.58	67.85	68.23	68.19	67.22	65.78	64.65	63.65	63.73	65.18	65.81	65.03	64.89	64.95	62.94	61.00	62.45	63.03	62.52	63.98
Directivity (dB)	4.07	4.14	4.21	4.26	4.30	4.31	4.32	4.31	4.30	4.29	4.31	4.34	4.38	4.40	4.44	4.44	4.42	4.39	4.33	4.28	4.24
Peak Gain Position (Theta)	89.00	89.00	89.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	88.00	87.00	87.00	87.00
Peak Gain Position (Phi)	246.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00	247.00	248.00	248.00	248.00	248.00	248.00	248.00	248.00	248.00
Efficiency ThetaPol (%)	46.12	46.55	47.47	47.76	47.71	46.94	45.89	44.97	44.17	44.14	45.02	45.36	44.70	44.56	44.51	43.04	41.69	42.61	42.87	42.38	43.23
Efficiency PhiPol (%)	19.88	20.02	20.38	20.46	20.48	20.28	19.89	19.67	19.49	19.59	20.16	20.45	20.33	20.33	20.43	19.90	19.32	19.84	20.16	20.14	20.75
Upper Hem. Efficiency (%)	34.73	34.98	35.65	35.88	35.89	35.38	34.57	33.87	33.18	33.04	33.65	33.88	33.44	33.39	33.50	32.55	31.57	32.32	32.58	32.20	32.77
Lower Hem. Efficiency (%)	31.26	31.60	32.21	32.35	32.30	31.84	31.22	30.78	30.48	30.70	31.53	31.93	31.58	31.50	31.44	30.39	29.43	30.14	30.45	30.32	31.20

场型图:



4. Mechanical Specification

4.1 Assembly Drawing



5.免责声明:

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