

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：_____ FPC ANT

(Description)

产品选型表：

(Product Type)

型号	说明	备注
BW258FND35-15B4L140		参数均可订制

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

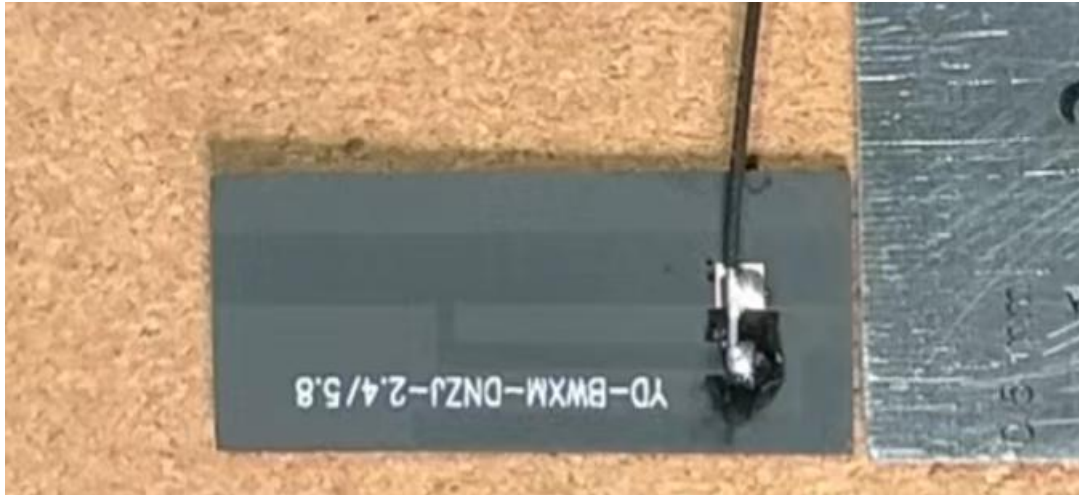


1.1 Specifications

天线型号 Antennas Type	BW258FND35-15B4L140
频率范围 Frequenc Range (MHz)	2400-2500MHz
输入阻抗 Input Impedence (Ω)	50 Ω
电压驻波比 V. S. W. R	<2
增益 Gain (dBi)	2.22dBi
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)	35-15
接口形式/Connector Type:	IPEX-4
电缆型号 Cable type (mm)	Φ 0.81
电缆长度 Cable length (mm)	140
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

* Note: The above data is for reference only. Since the antenna function is sensitive, please inform us of any changes of the surrounding institutions.

1.2 Antenna Picture



上图型号: BW258FND35-15B4L140

(Customize the middle connecting line length and antenna shape)

***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。

* Note: Since the antenna function is sensitive, please inform us of any changes in the surrounding institutions.

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).

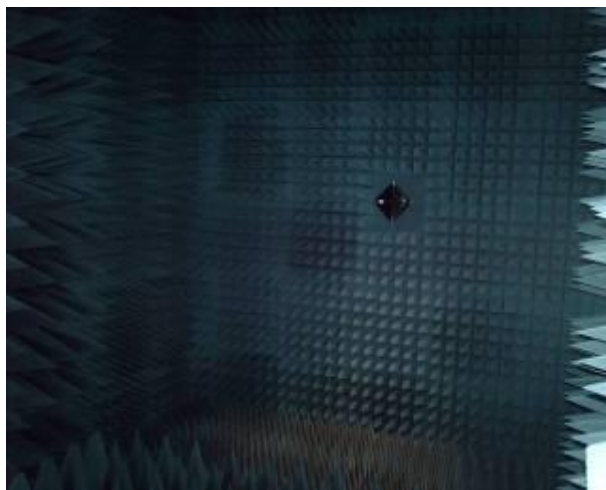


Figure.2

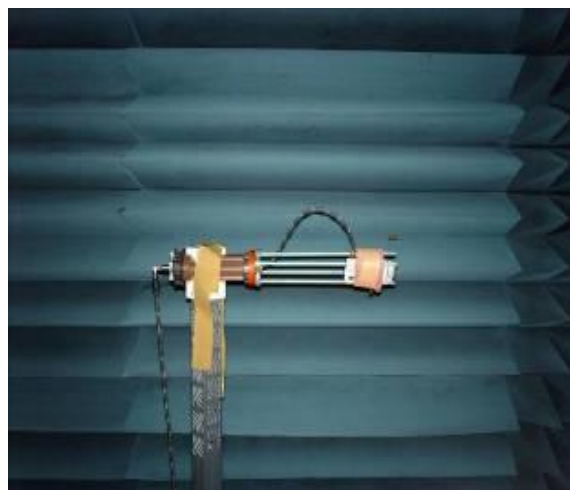


Figure.3

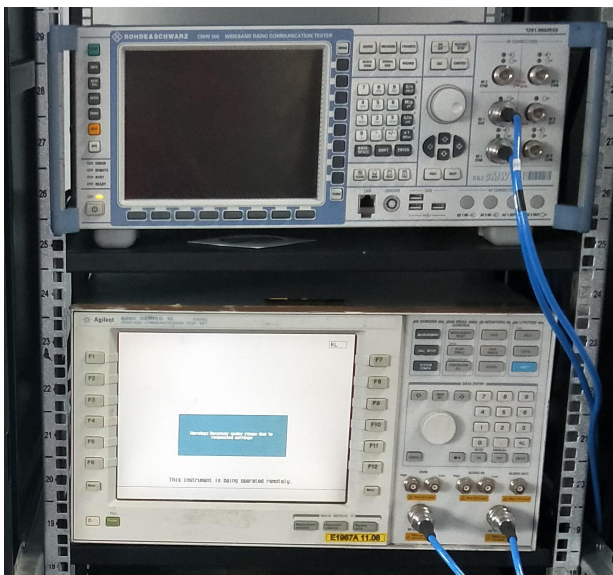


Figure.4

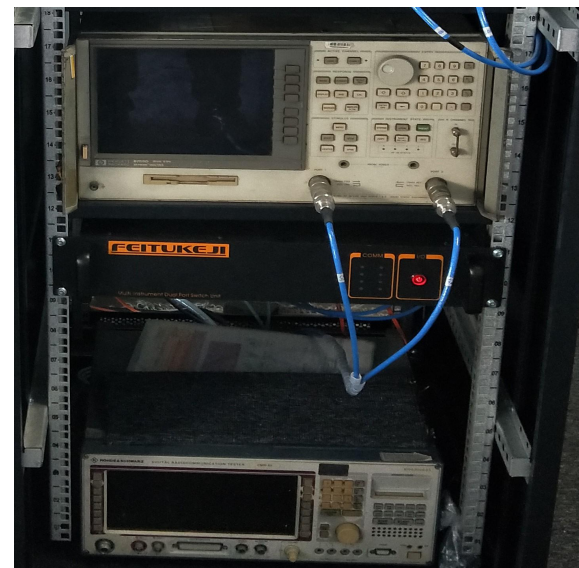


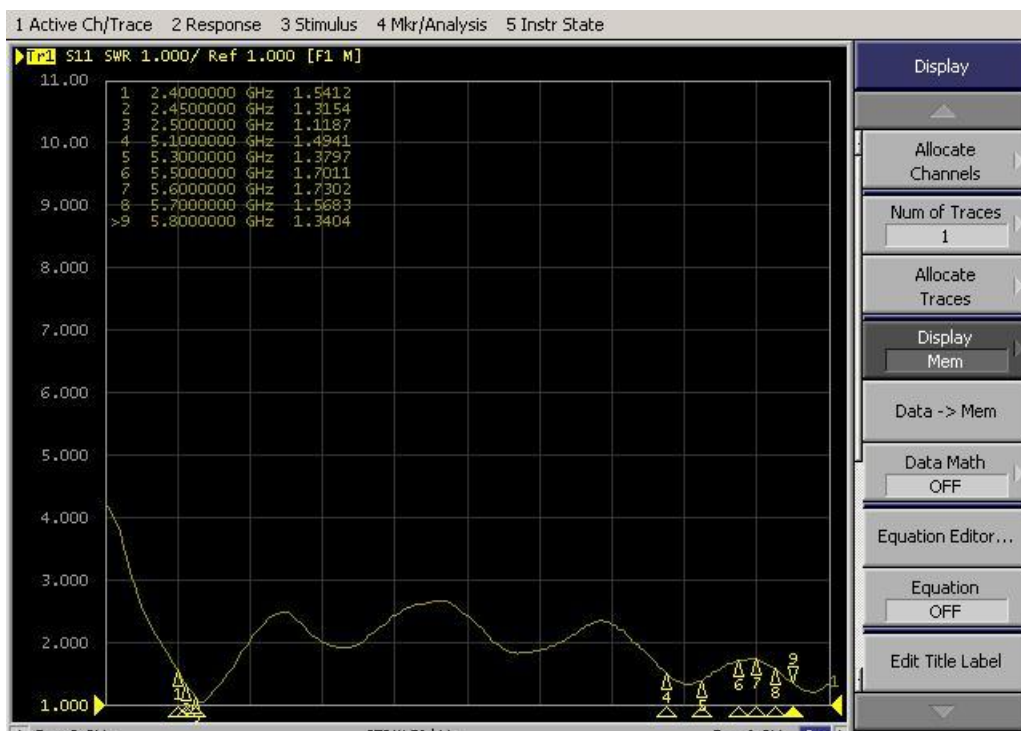
Figure.5



3. Performance Data

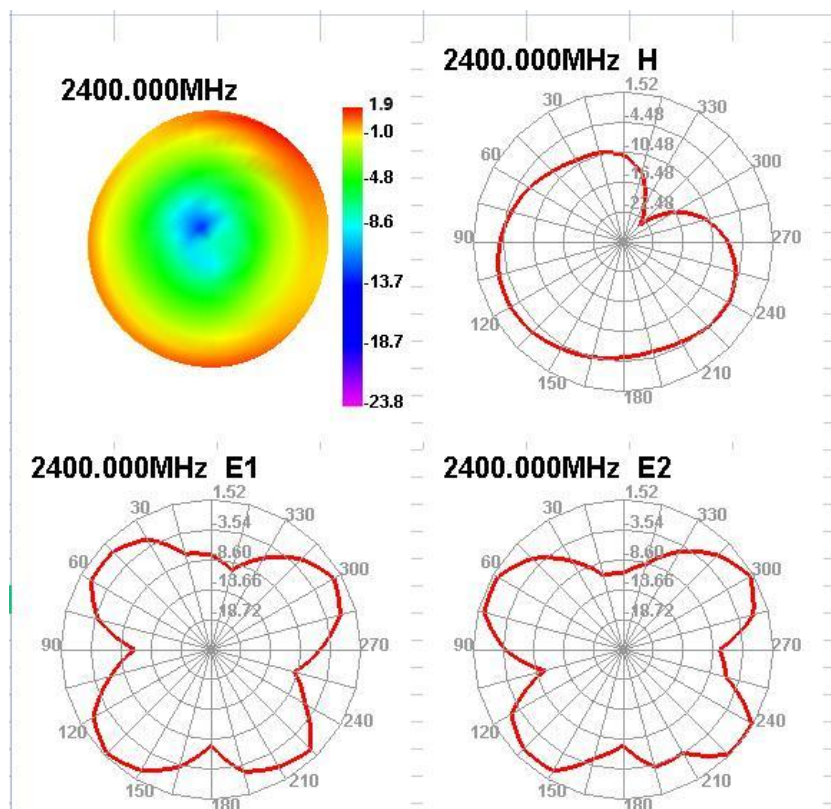
3.1 Passive data

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

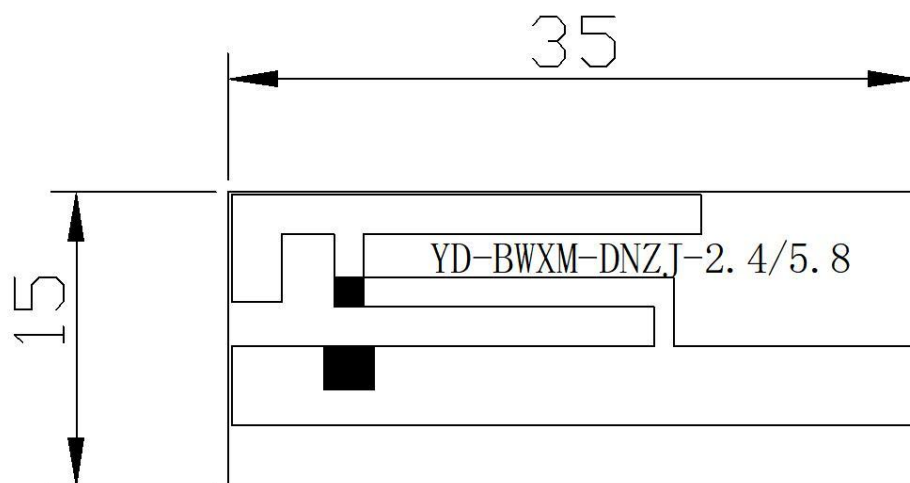


*注：以上为实测数据，仅供参考；因天线功能较为敏感，主体周边机构有变更请通知我们评估。

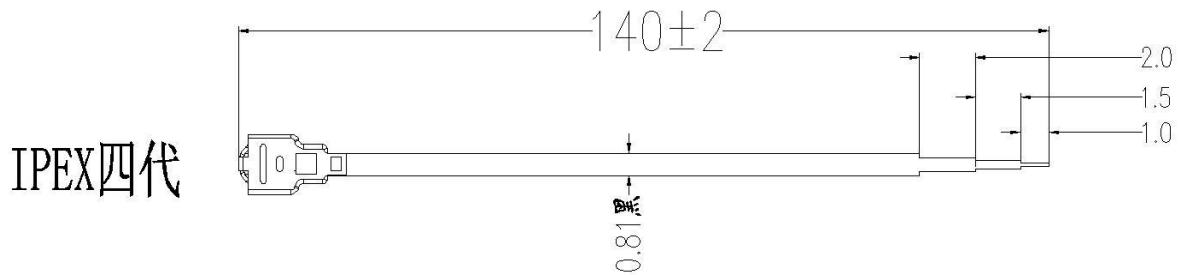
Passive Test For WIFI										
Freq (MHz)	Effi (%)	Effi (dB)	Gain (dBi)	Gain (dBd)	UHS (%)	DHS (%)	Max (dB)	Min (dB)	Attenut Hor	Attenut Ver
2400	54.51	-2.64	1.93	-1.22	27.374	27.137	1.93	-15.24	48.42	48.27
2410	53.12	-2.75	1.97	-1.18	26.984	26.137	1.97	-15.25	48.62	48.42
2420	54.92	-2.6	2.22	-0.93	28.175	26.746	2.22	-15.05	48.87	48.69
2430	53.16	-2.74	2.04	-1.11	27.347	25.813	2.04	-15.2	48.84	48.66
2440	52.85	-2.77	1.9	-1.25	27.092	25.756	1.9	-15.14	48.95	48.73
2450	54.93	-2.6	1.95	-1.2	27.939	26.992	1.95	-15.43	49.07	48.77
2460	56.27	-2.5	1.99	-1.16	28.379	27.893	1.99	-15.88	49.11	48.76
2470	56.58	-2.47	2.06	-1.09	28.364	28.212	2.06	-16.95	49.11	48.73
2480	60.33	-2.19	1.44	-0.71	30.169	30.16	1.44	-17.48	49.41	48.96
2490	65.91	-1.81	1.97	-0.18	32.97	32.943	1.97	-17.48	49.76	49.29
2500	63.79	-1.95	1.9	-0.25	32.048	31.746	1.9	-17.49	49.65	49.12



4.1 Assembly Drawing



注：双面黑油，白色字符，补强0.2MM, 基材一对半, 背胶3M9471



5.免责声明 (Disclaimer) :

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