

深圳市鑫域达科技有限公司

SHENGZHEN XYD TELECOMMUNICATION TECHNOLOGY CO.,LTD.

移动通信终端天线

Mobile communication terminal antenna

产品设计与制造规格书

Product design and manufacturing specifications

◆ 客户名称/ Customer: 天和荣

◆ 项目名称/Project: birdfy2 主摄

◆ 物料名称/Name: WiFi Antenna

◆ 天线材质/Antenna materials: FPC

◆ 物料编号/Part no: XYD-THR-ZSWIFI-01

◆ 设计/Designer:

◆ 审核/Check:

◆ 客户确认签章/Approved:

地址/Add: 深圳市南山区西丽镇平山一路云谷二期 8 栋 505

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目录:/list

1.天线 2D 图/Antenna 2D diagram

2.技术指标/Technical target

3.动态测试说明/Dynamic test instruction

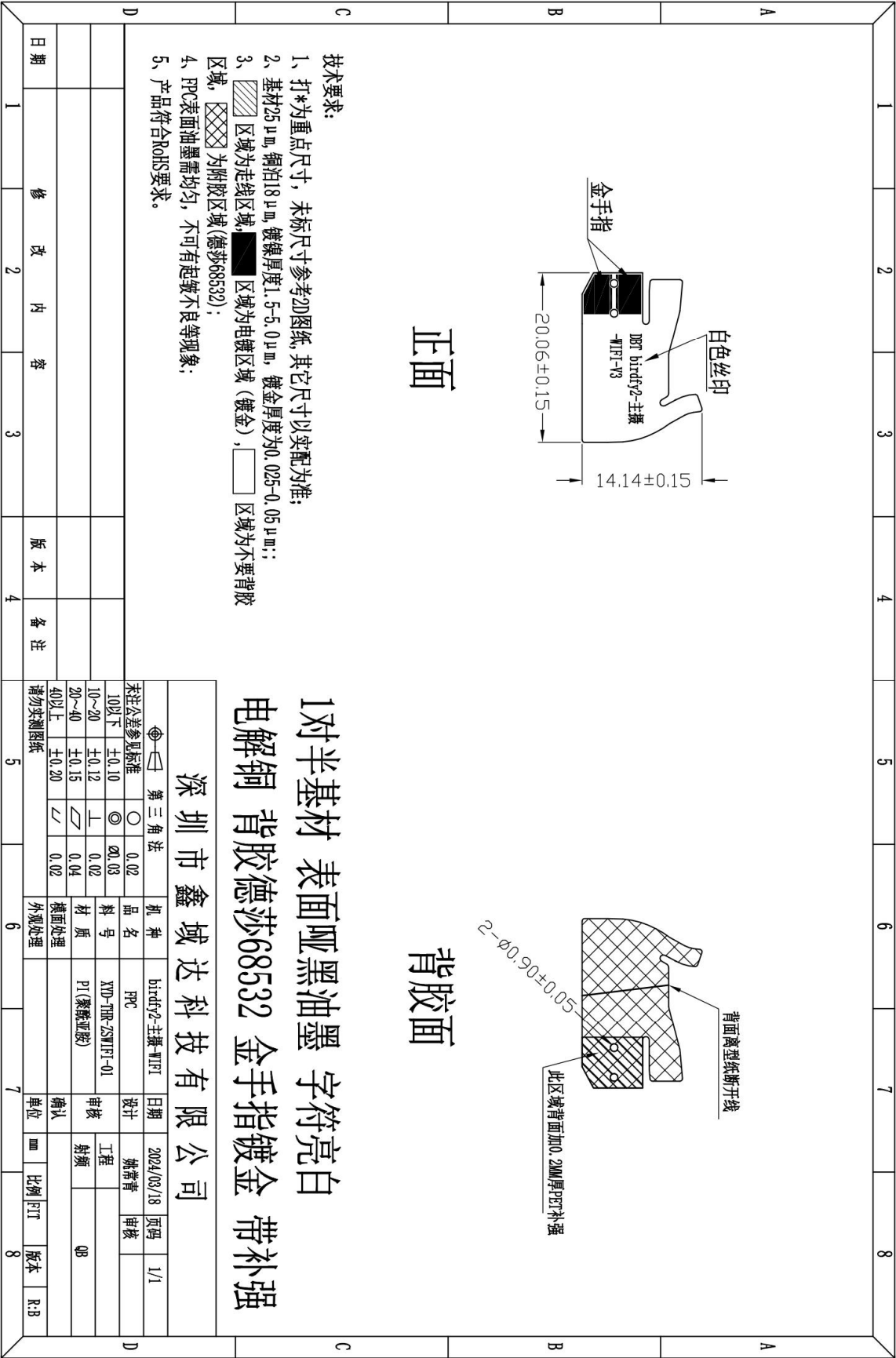
4.天线安装图示/Diagram of antenna installation

5.匹配电路/Matching Circuit

6.天线测试数据/Antenna test report

7.包装方式/Packing method

1. 天线 2D 图/Antenna 2D diagram

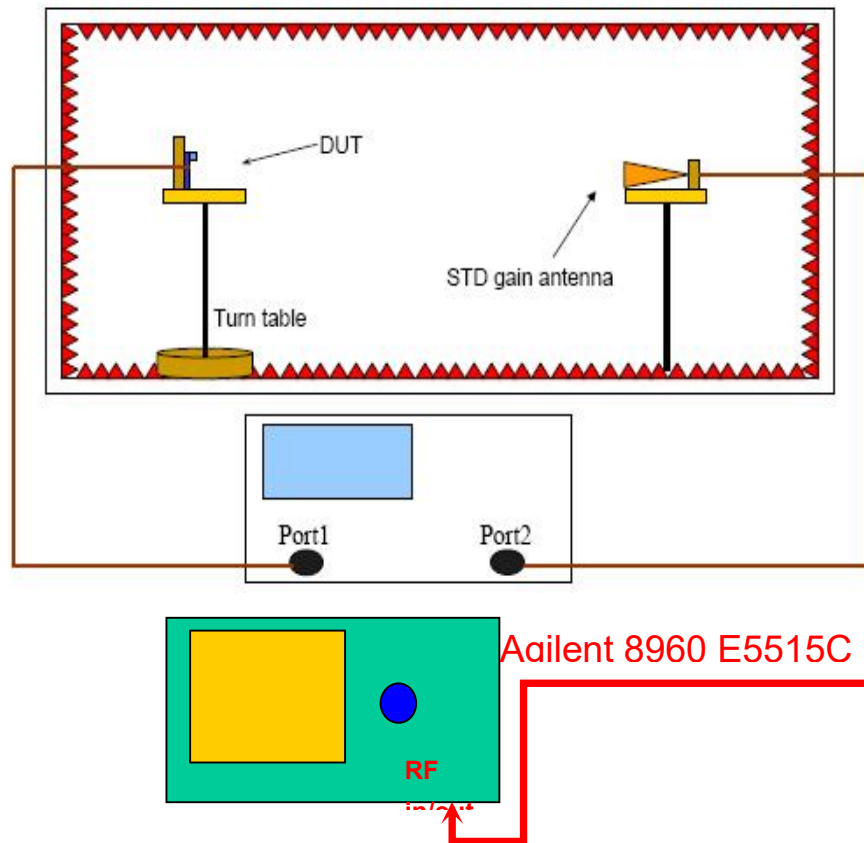


2.技术指标/ Technical target

A. 电气性能/Electrical Parameter	
工作频率范围/Frequency Range	2400~ 2500 MHz
驻波比/VSWR	2400~ 2500 MHz: <1.5
天线增益/Gain (Max)	2400~ 2500 MHz: 3.16 dBi
平均辐射效率/ Average radiation efficiency	2400~ 2500MHz :60.3 %
阻抗/Input Impedance	50 ohm
B. 材料/ Material	
FPC	
C. 环境/Environmental Science	
工作温度/Working Temperature	- 30℃ ~ + 85℃
储藏温度/Storage temperature	- 30℃ ~ + 85℃

3.动态测试数据--- 天线安置在设备里/Dynamic test instructions - Antennas are placed in electronic scales

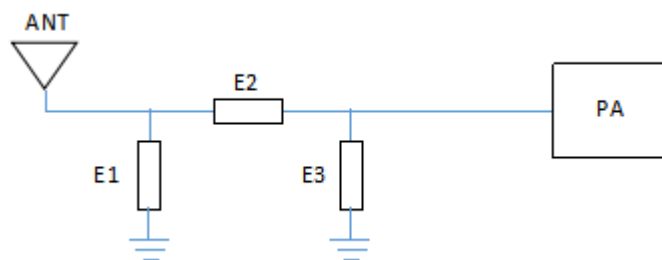
测试仪器/ Testing instrument : Anrits CMW500+ Anechoic Chamber 6X4X3m(3D-OTA)



4.天线安装图示/Diagram of antenna installation



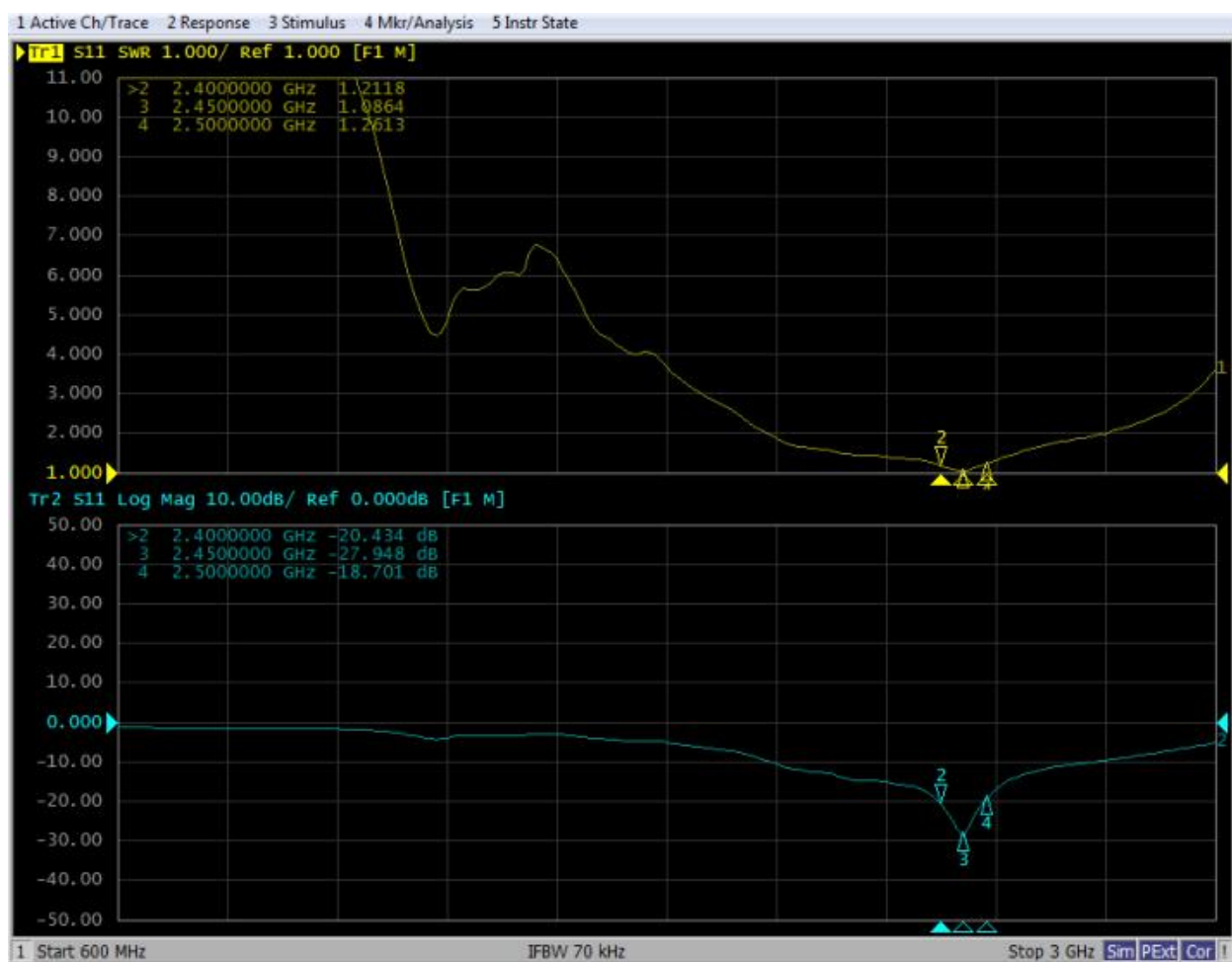
5. 匹配电路/Matching Circuit



(天线匹配未做修改/The antenna match has not been modified)

6. 天线实际测试数据/Antenna test report

6. 1) 天线无源测试数据/Passive antenna test data



6.2) 天线有源测试数据/Active antenna test data

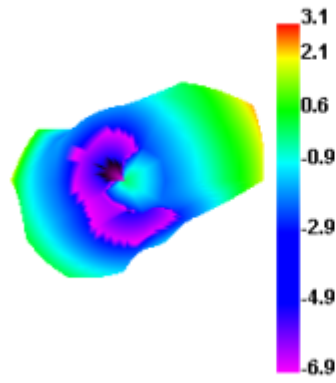
802.11b : 11MBps			
Test	Wifi 2G TRP		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Txp Ave(dBm)	12.95	12.5	12.1
Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-85.69	-86	-85.86
802.11g : 54MBps			
Test	Wifi 2G TRP		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Txp Ave(dBm)	11.64	10.47	10.04
Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-72.36	-71.95	-71.59
802.11n : MCS7			
Test	Wifi 2G TRP		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Txp Ave(dBm)	11.43	10.31	10
Test	Wifi 2G TIS		
Result	1	6	11
Frequency (MHz)	2412	2437	2462
Sens Ave(dBm)	-70.8	-70.35	-70.37

6.3) 天线效率/增益/方向图 Antenna Efficiency/gain/pattern

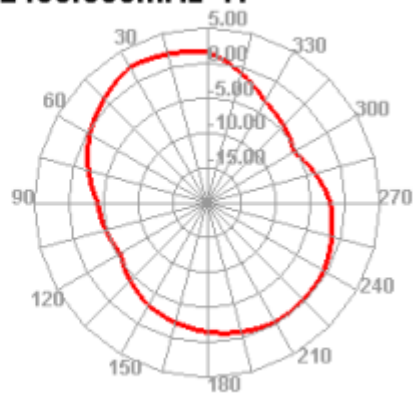
2.4g WIFI&BT

Freq (MHz)	Effi (%)	Gain (dBi)
2400	58.85	2.96
2410	55.59	2.85
2420	55.86	3.02
2430	57.71	3.03
2440	61.96	3.16
2450	63.07	3.09
2460	59.06	2.65
2470	60.17	2.64
2480	64.76	3.05
2490	61.7	2.88
2500	64.54	3.15

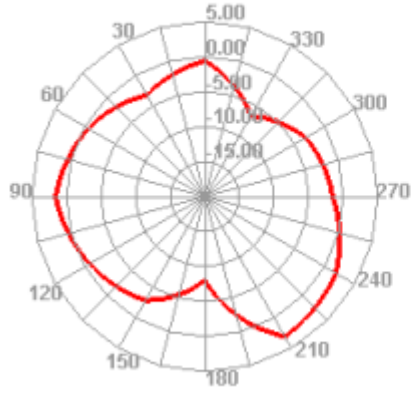
2450.000MHz



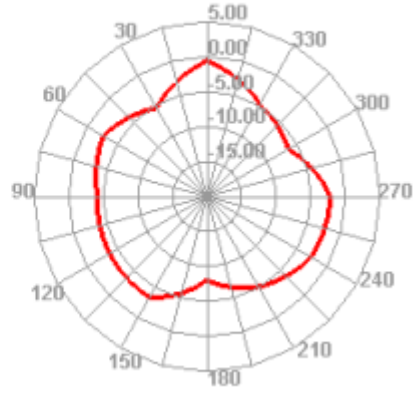
2450.000MHz H



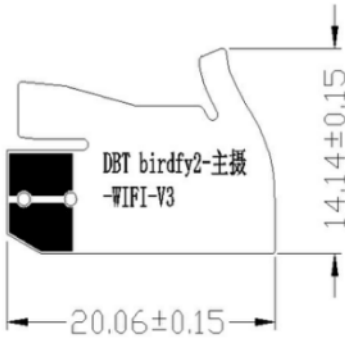
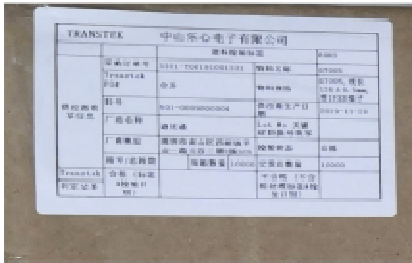
2450.000MHz E1



2450.000MHz E2



7.包装方式/Packing method

1. 单个产品 2D 图/2D drawing of the product		产品料号/ The product material number	XYD-THR-ZSWIFI-01
		产品名称 / Product name	birdfy2 主摄 _WIFI/FPC
		产品版本/ Product version	V3
2. 箱内所有层堆放后的照片 /Photos of all stacked layers in the box	3. 整箱封箱后的照片/ Photo of the whole case after sealing		
		整版数量/ Number of full pages	按实际出货数量 /In actual quantity
		备注:每箱数量以实际为准, 左侧图片为参考, 按实物为准。 /Remarks: the quantity of each box shall be actual, the picture on the left side shall be for reference, and the actual goods shall be regarded as standard.	
4. 整包的照片/ A whole pack of photos	5. 整箱的箱表面贴的标签的照片/A photograph of the label on the surface of the entire case	储存条件: -10° 至 30° 之间, 湿度 70%RH 以下的室内。 /Storage conditions:between -10 ° to 30 ° , humidity 70% Rh below the indoor.	
			
注: 上图中的图片只用做包装标准示范, 不能用做最终资料审核。 /Note: the picture in the picture above is only used for packing standard demonstration, not for final data audit.			
确认者 /Confirmer	杨小平/ Yang Xiaoping	日期/Date	2024-4-11

注/Remark:

1. 以上测试结果限于测试样机/The above test results are limited to the test prototype.

2. 整机壳料工艺、软件版本、配件(摄像头 FPC、喇叭、听筒、马达、电池等)、芯

片的改变都会导致整机天线性能变化。/Full shell material technology, software version, accessories (camera, FPC, speaker, receiver, motor, battery, etc.), core

The performance of the whole antenna will change with the change of the chip.

3. 整机的环境处理(如接地位置、尺寸,屏蔽方式等)改变会导致整机性能变化。/The change of environmental treatment (such as grounding position, size, shielding mode, etc.) of the whole machine will lead to the change of the performance of the whole machine.

郑重申明/Solemnly declare:

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