

深圳市鑫域达科技有限公司

SHENZHEN 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:

◆ 项目名称/Project: XYD-HCSJ-1

◆ 物料名称/Name: Wifi1/BT (V1 版)

◆ 物料编号/Part no:

◆ 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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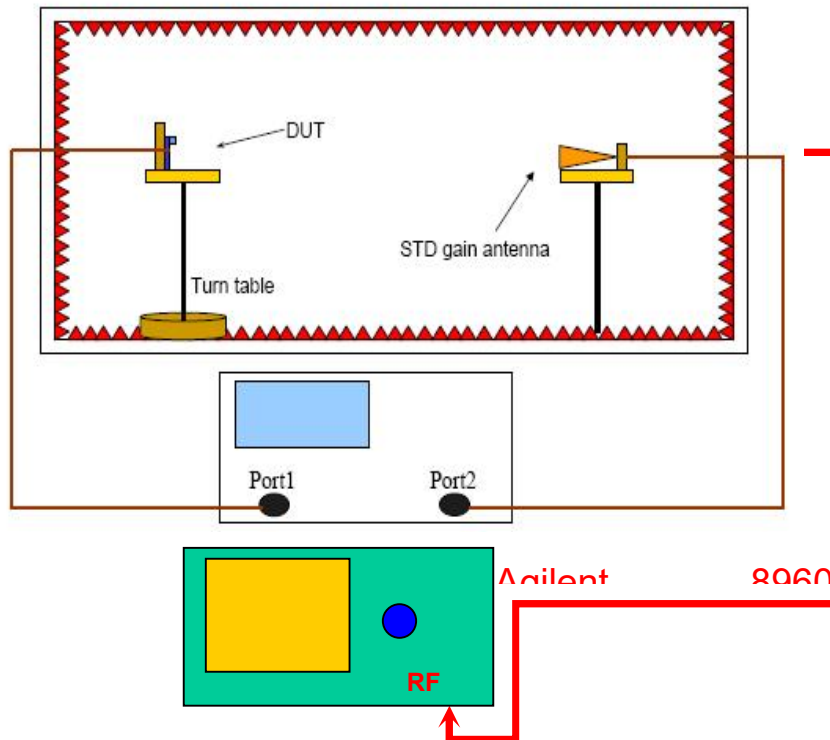
②	同轴线	3代端子, φ0.81线径, 长度37MM	黑色	1	端子扣口朝侧上
①	PPC	21.50mm*11.30mm*0.27mm	黑色	1	
序号	名称	规格说明	颜色	用量	备注
深圳市鑫域达科技有限公司					
◆□ 第三角法		机种	日期	2023/03/10	页码
未注公差参见标准	○	品名	设计	姚常青	审核
10以下	±0.10	料号	审核	工程	
10~20	±0.12	材质		射頻	
20~40	±0.15	模面处理	确认		RJ
40以上	±0.20	外观处理	单位	■	比例
请对照图纸纸				IT	版本
5		6		7	8

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, 5000 ~ 5850 MHz
驻波比/VSWR	2400 ~ 2500 MHz: < 2.0, 5000 ~ 5850 MHz: < 2.0
天线增益/Gain (Max)	2400 ~ 2500 MHz: -2.29 dBi, 5000 ~ 5850 MHz: -3.64 dBi
平均辐射效率 / Average radiation efficiency	2400 ~ 2500 MHz: 13.2%, 5000 ~ 5850 MHz: 9.2 %
阻抗/Input Impedance	50 ohm
B. 材料/ Material	
FPC+Cable	
C. 环境/Environmental Science	
工作温度/Working Temperature	- 30°C ~ + 85 °C
储藏温度/Storage temperature	- 30°C ~ + 85 °C

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)

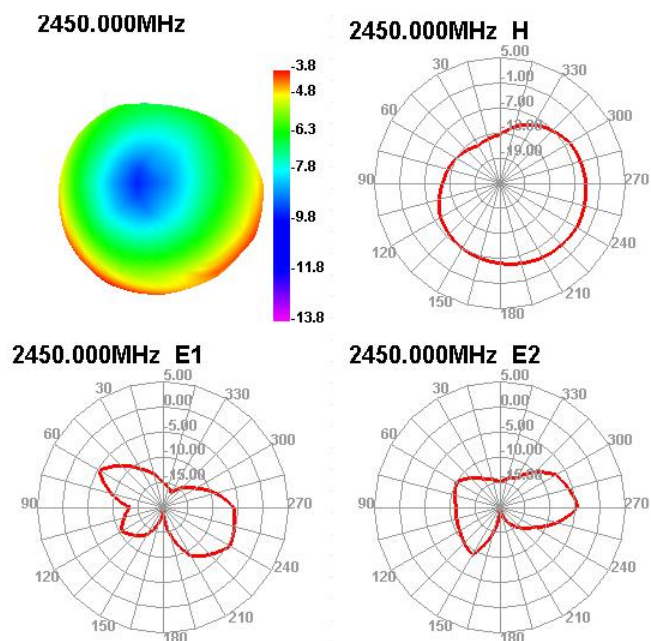


4.天线安装位置/Antenna installation position

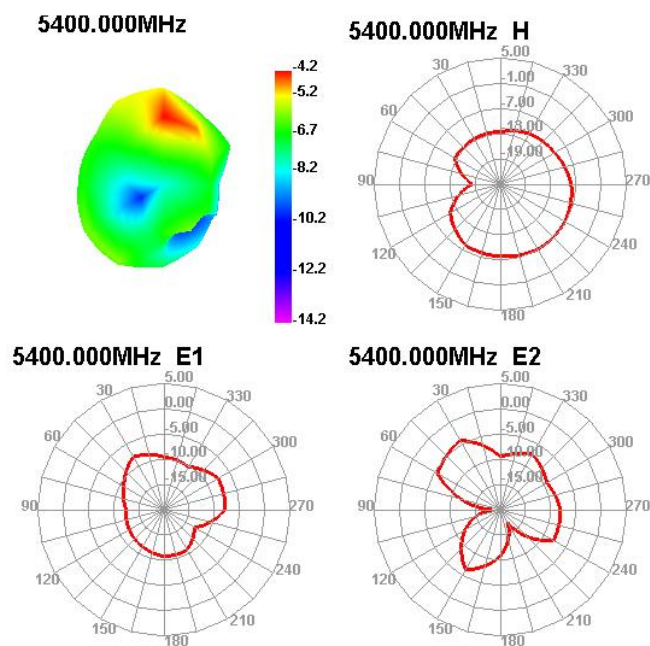


5.天线效率/增益/方向图/Ant Passive Efficiency/Gain/Pattern

Freq (MHz)	Effi (%)	Gain (dBi)
2400	14.78	-2.54
2410	15.8	-2.29
2420	12.29	-3.65
2430	15.09	-2.93
2440	11.65	-4.27
2450	13.6	-3.83
2460	10.67	-4.73
2470	13.25	-3.57
2480	11.71	-4.17
2490	13.42	-3.56
2500	12.33	-4.09



Freq (MHz)	Effi (%)	Gain (dBi)
5000	7.53	-6.4
5100	11.73	-4.51
5200	12.81	-4.64
5300	14.11	-3.64
5400	12.44	-4.18
5500	9.4	-5.19
5600	5.33	-7.16
5700	6.52	-6.98
5800	6.08	-5.12
5900	5.63	-6.26



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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