



深圳市迪比通通讯设备有限公司

SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

产品设计与制造规格书

Product design and manufacturing specifications

- ◆ 客户名称/ Customer: 艾迪希
- ◆ 项目名称/Projec: MANTRA 80
- ◆ 物料名称/Name: WIFI/BT 天线
- ◆ 天线材质/Antenna materials: FPC+CABLE
- ◆ 物料编号/Part no:
- ◆ 设计/Designer:
- ◆ 审核/Check:
- ◆ 客户确认签章/Approved:

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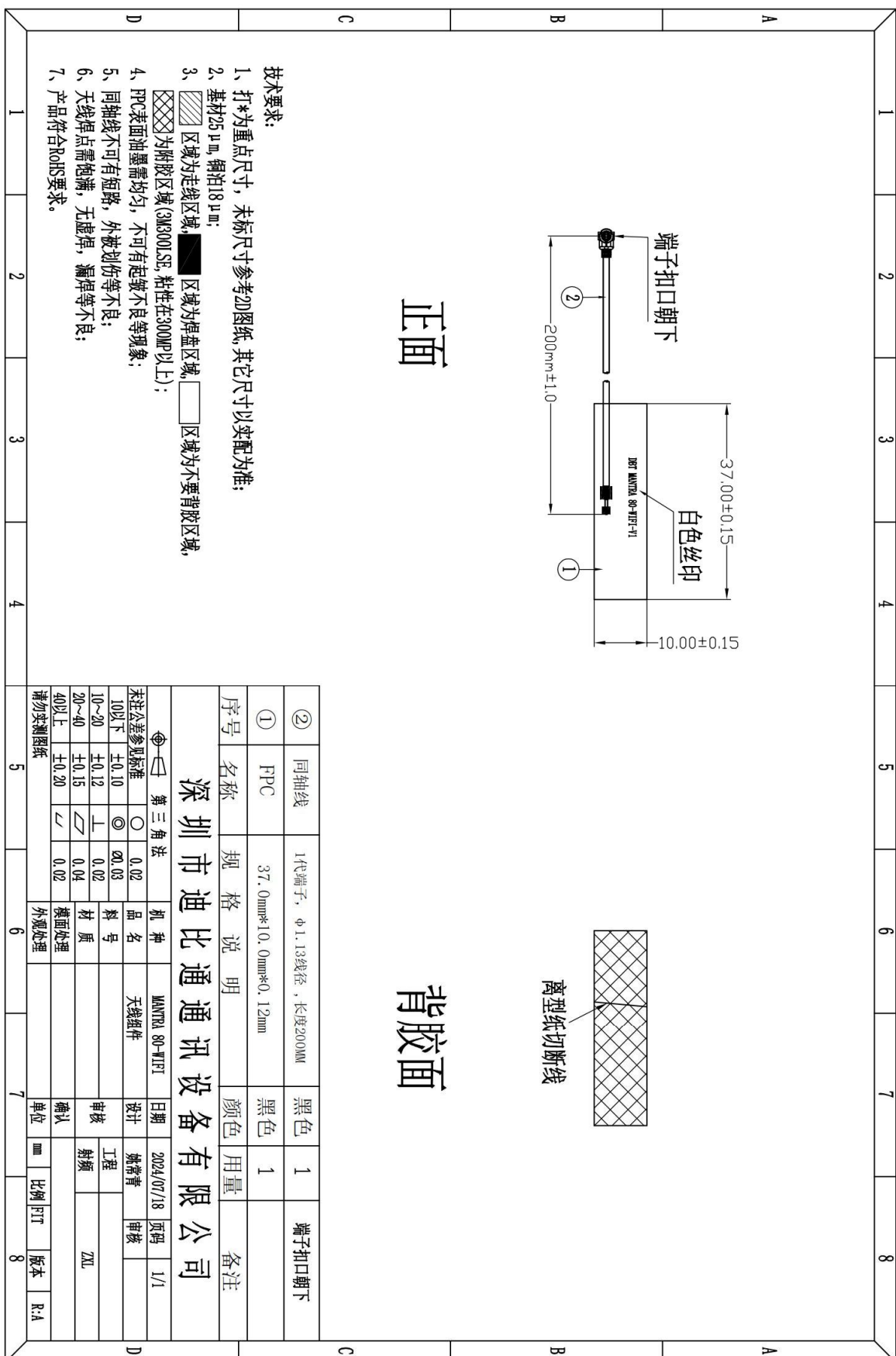
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1. 天线 2D 图/Antenna 2D diagram

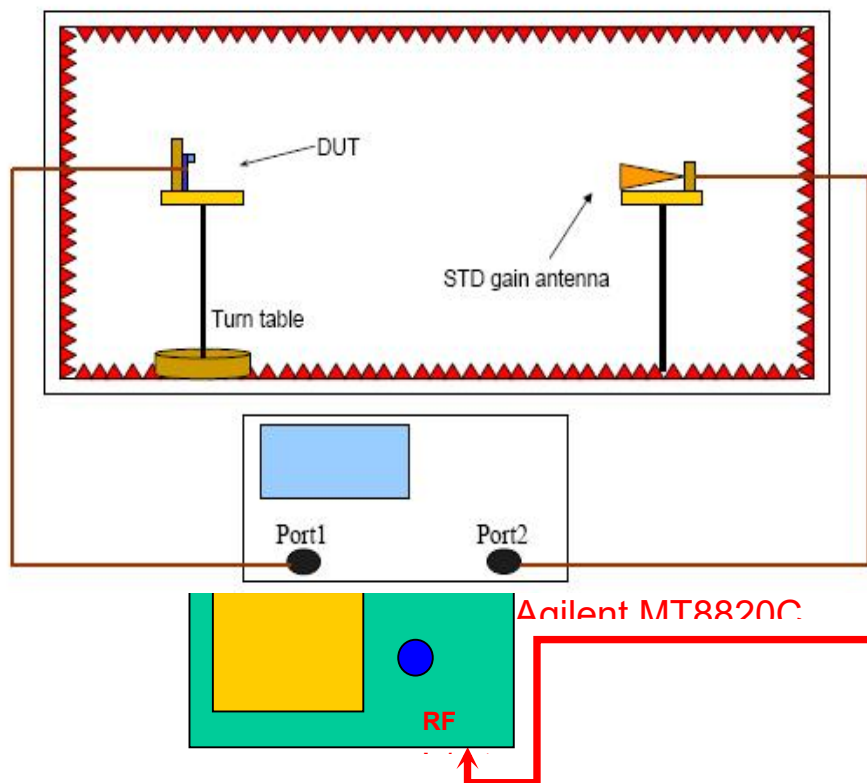


2.技术指标/ Technical target

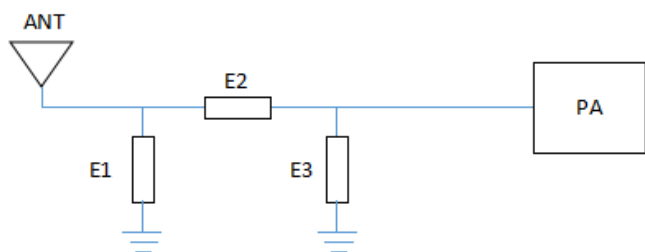
A. 电气性能/Electrical Parameter	
工作频率范围/Frequency Range	2400~ 2500 MHz
驻波比/VSWR	2400~ 2500MHz: < 2.0
天线增益/Gain (Max)	2400~ 2500 MHz: 0.49 dBi
平均辐射效率/ Average radiation efficiency	2400~ 2500MHz: 31.2 %
阻抗/Input Impedance	50 ohm
B. 材料/ Material	
FPC+CABLE	
C. 环境/Environmental Science	
工作温度/Working Temperature	- 30℃ ~ + 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.匹配电路/Matching Circuit



Element	4G	WIFI/BT		
E1				
E2				
E3				

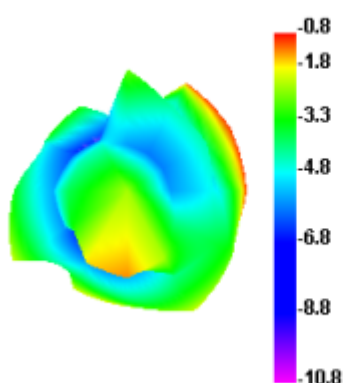
匹配电路未做修改
(The match has no changed)

5.天线实际测试数据/Antenna test report

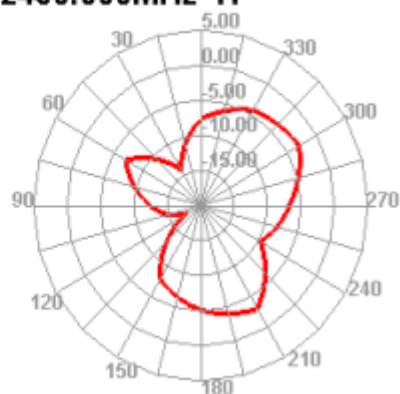
5.1)WIFI/BT 天线效率/增益/方向图

Freq (MHz)	Effi (%)	Gain (dBi)
2400	31.14	-0.66
2410	30.88	-0.77
2420	30	-0.86
2430	30.77	-0.88
2440	30.14	-1.16
2450	30.09	-0.8
2460	28.6	-0.79
2470	30.77	-0.34
2480	33.26	0.17
2490	33.61	0.46
2500	34.11	0.49

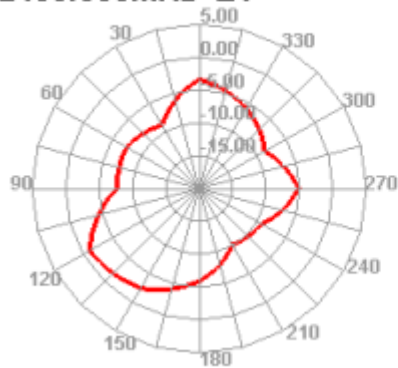
2450.000MHz



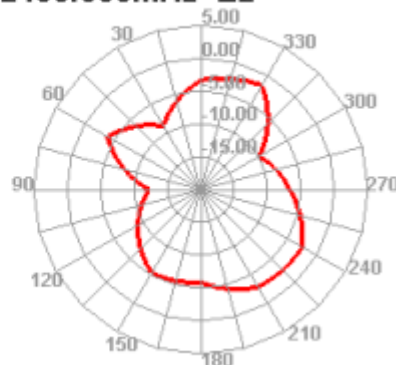
2450.000MHz H



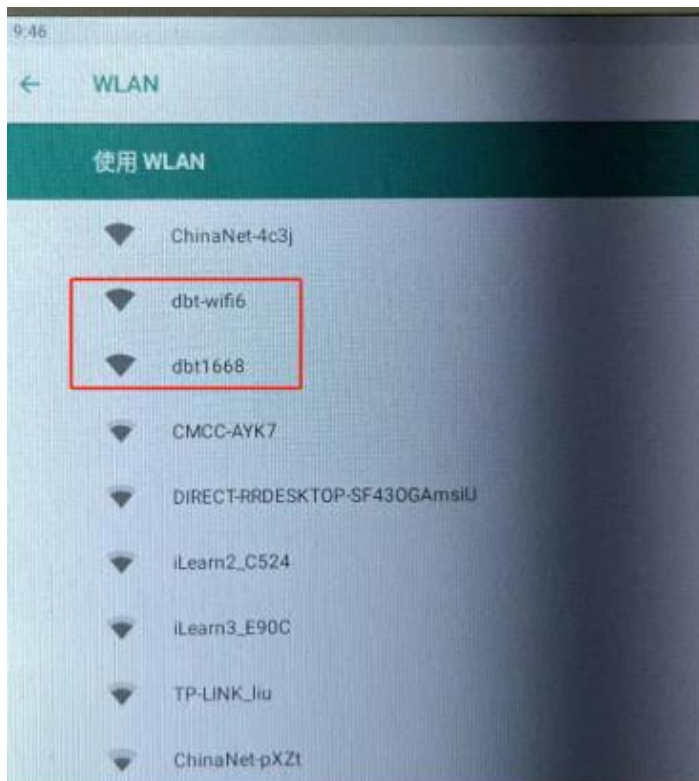
2450.000MHz E1



2450.000MHz E2

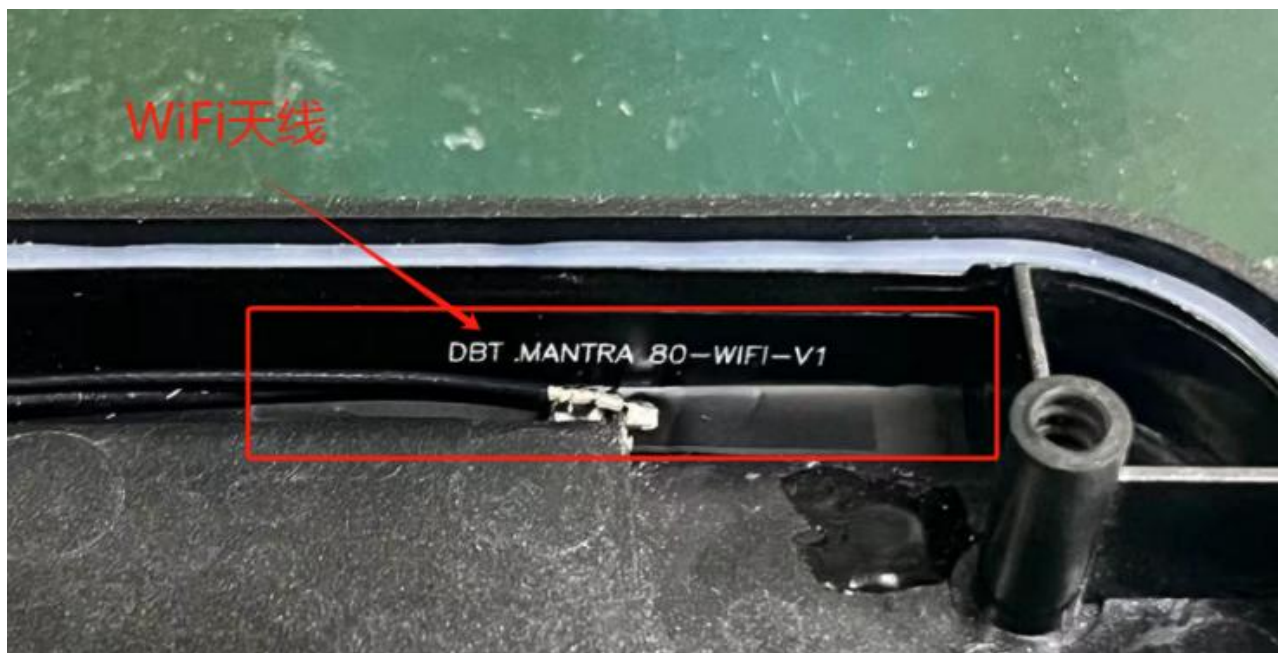


5.2)WIFI/BT 实测效果

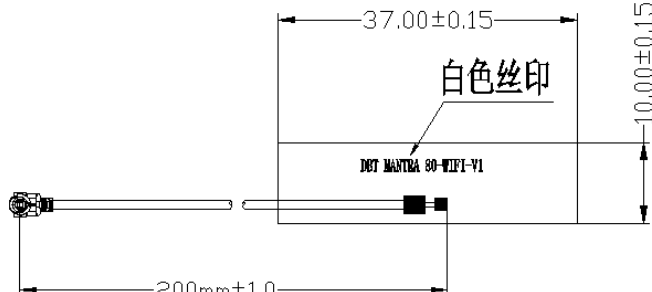
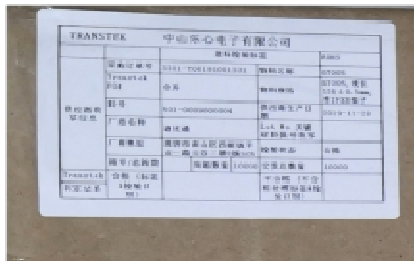


WIFI实测10M处信号满格
BT 8M传输正常

6.天线安装位置/Antenna installation position



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			
		产品名称 / Product name		MANTRA 80_WIF/BT 天线	
		产品版本/ Product version		V1	
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			
				一包数量/ Number of full pages	
				200PCS	
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		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.	
				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	2024-7-31	

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.

郑重声明/Solemnly declare:

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