



深圳市迪比通通讯设备有限公司

SHENZHEN DIBITONG 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: 咋莱/Commlite
- ◆ 项目名称/Projec: 118
- ◆ 物料名称/Name: 2.4G 铜管天线 /2.4G Copper tube antenna
- ◆ 天线材质/Antenna materials: 铜管+Cable+热缩管 /Copper tube +Cable+ heat shrink tube
- ◆ 物料编号/Part no: D.000.AT.0047
- ◆ 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

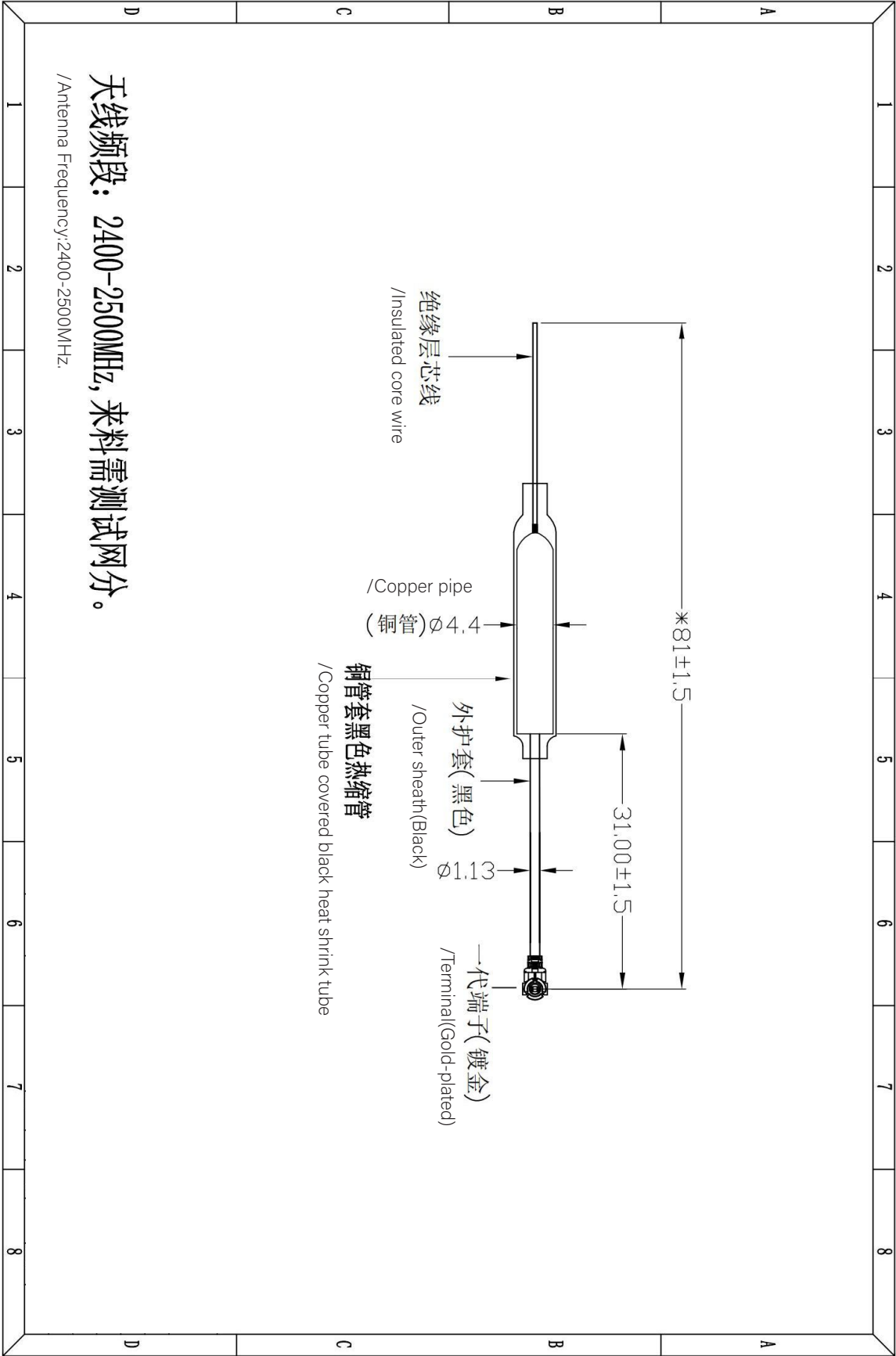
3.动态测试说明/Dynamic test instruction

4.匹配电路/Matching Circuit

5.天线测试数据/Antenna test report

6.包装方式/Packing method

1. 天线 2D 图/Antenna 2D diagram

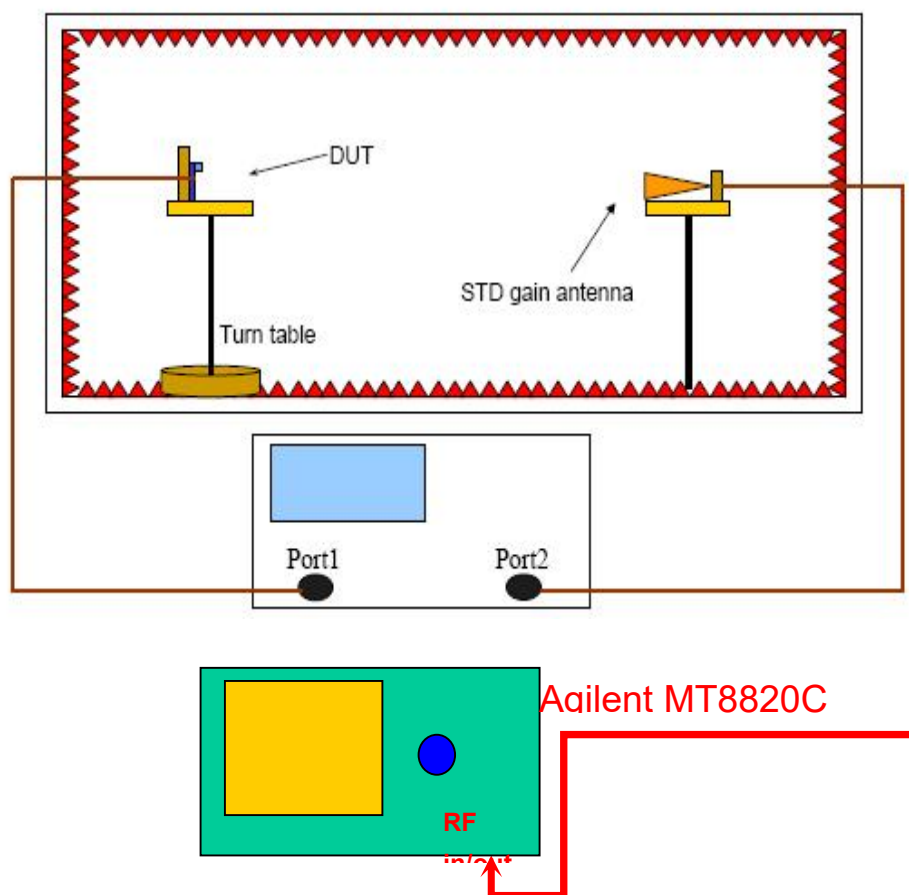


2.技术指标/ Technical target

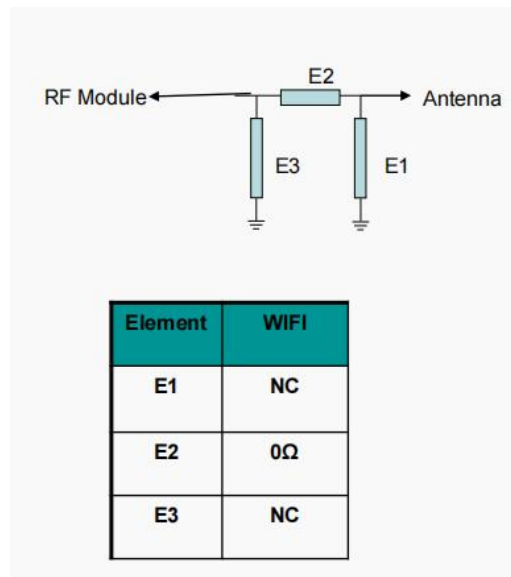
A. 电气性能/Electrical Parameter	
工作频率范围/Frequency Range	2400~2500 MHz
驻波比/VSWR	2400~2500 MHz: ≤ 1.8
天线增益/Gain (Max)	2400~2500 MHz: 2.88dBi
平均辐射效率/ Average radiation efficiency	2400~2500 MHz : 57.6%
阻抗/Input Impedance	50 ohm
B. 材料/ Material	
铜管+Cable+热缩管 /Copper tube+Cable+Heat shrink tube	
C. 环境/Environmental 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 : Anritsu CMW500+ Anechoic Chamber 6X4X3m(3D-OTA)



4.匹配电路/Matching Circuit

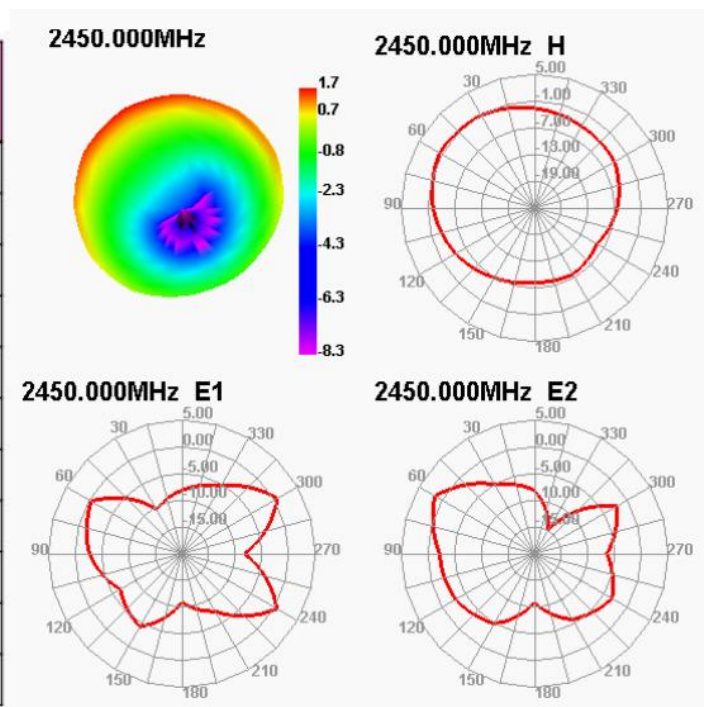


(The match has not changed)

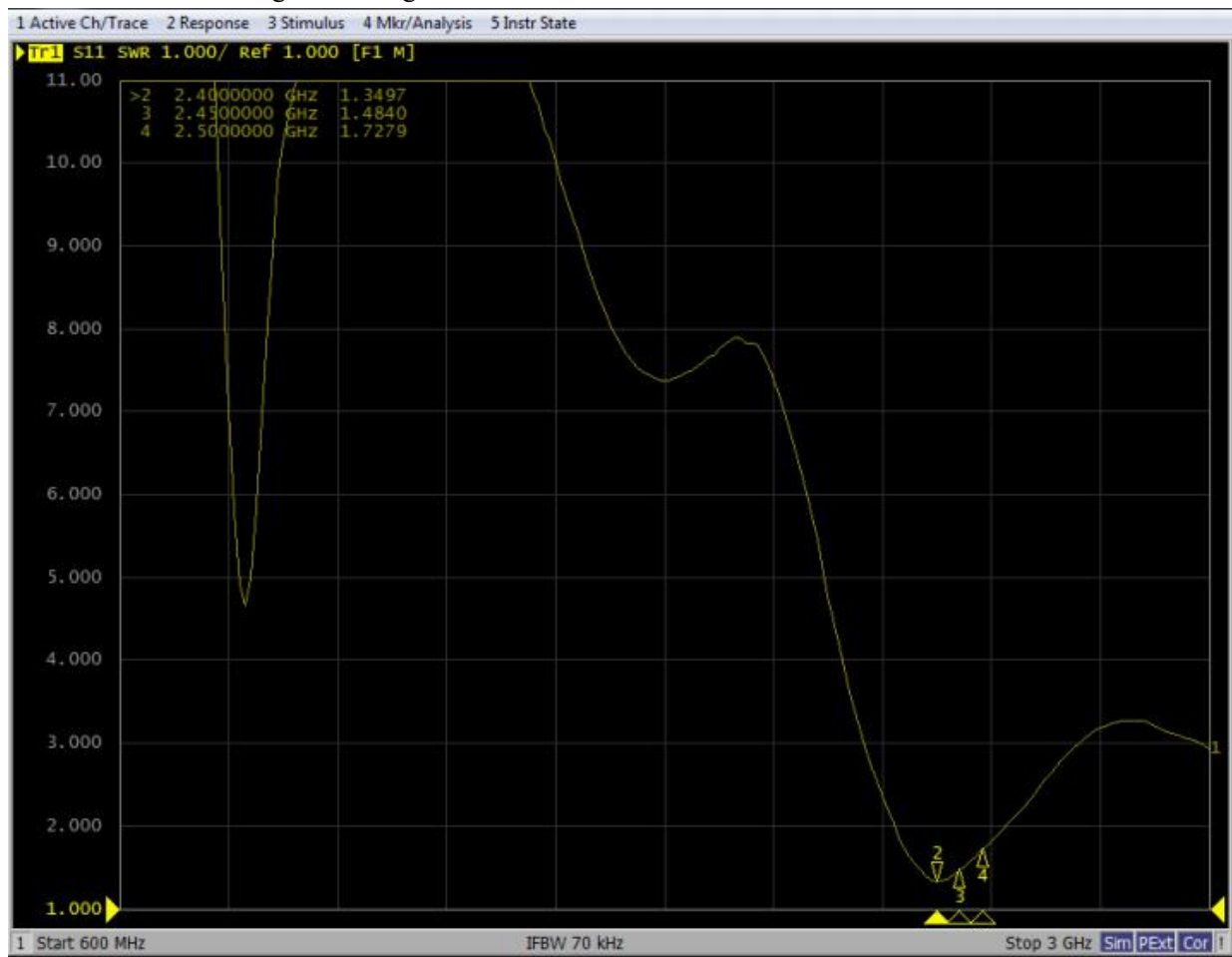
5.天线实际测试数据/Antenna test report

5.1)无源效率/增益/方向图/Passive Efficiency/Gain/Pattern

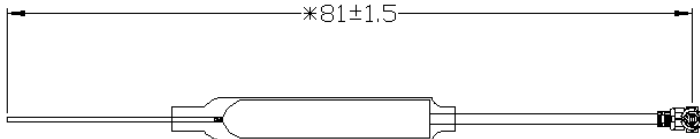
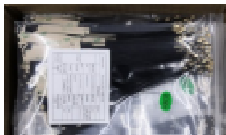
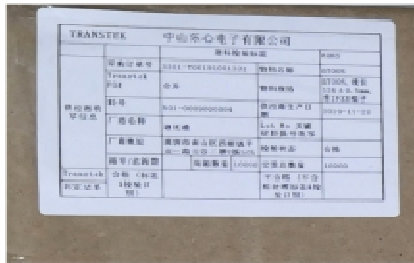
Freq (MHz)	Effi (%)	Gain (dBi)
2400	58.72	2.88
2410	55.22	2.29
2420	62.26	2.46
2430	55.42	1.59
2440	63.25	2.15
2450	54.01	1.73
2460	56.2	1.91
2470	55.95	1.62
2480	57.72	2.14
2490	56.33	1.44
2500	58.85	2.2



5.2) S11 驻波图/S11 Standing Wave Diagram



6.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	D. 000. AT. 0047
		产品名称 / Product name	118-2. 4G 铜管天线 Copper antenna
		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		
		整包数量/ Number of full pages	200PCS
		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	2025-8-8