深圳市迪比通通讯设备有限公司

SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

Product design and manufacturing specifications

◆ 客户名称/ Customer: 升迈/百融至信

◆ 项目名称/Projec: W 1

◆ 物料名称/Name：FPC Antenna

◆ 天线材质/Antenna materials: FPC

◆ 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
Rm505, 8th building, Yungu 2nd period, pingshan No.1 Road, Xili Town,Nanshan District, ShenZhen , China
电话/Tel: 86-755-83763273/13927478525
传真/Fax: 86-755-83763348
电邮/Email: dbt1668@163.com

目录

1.天线 **2D** 图/**Antenna 2D diagram**

2.技术指标/**Technical target**

3.天线 **S11** 参数测试结果

/Test results of antenna S11 parameters

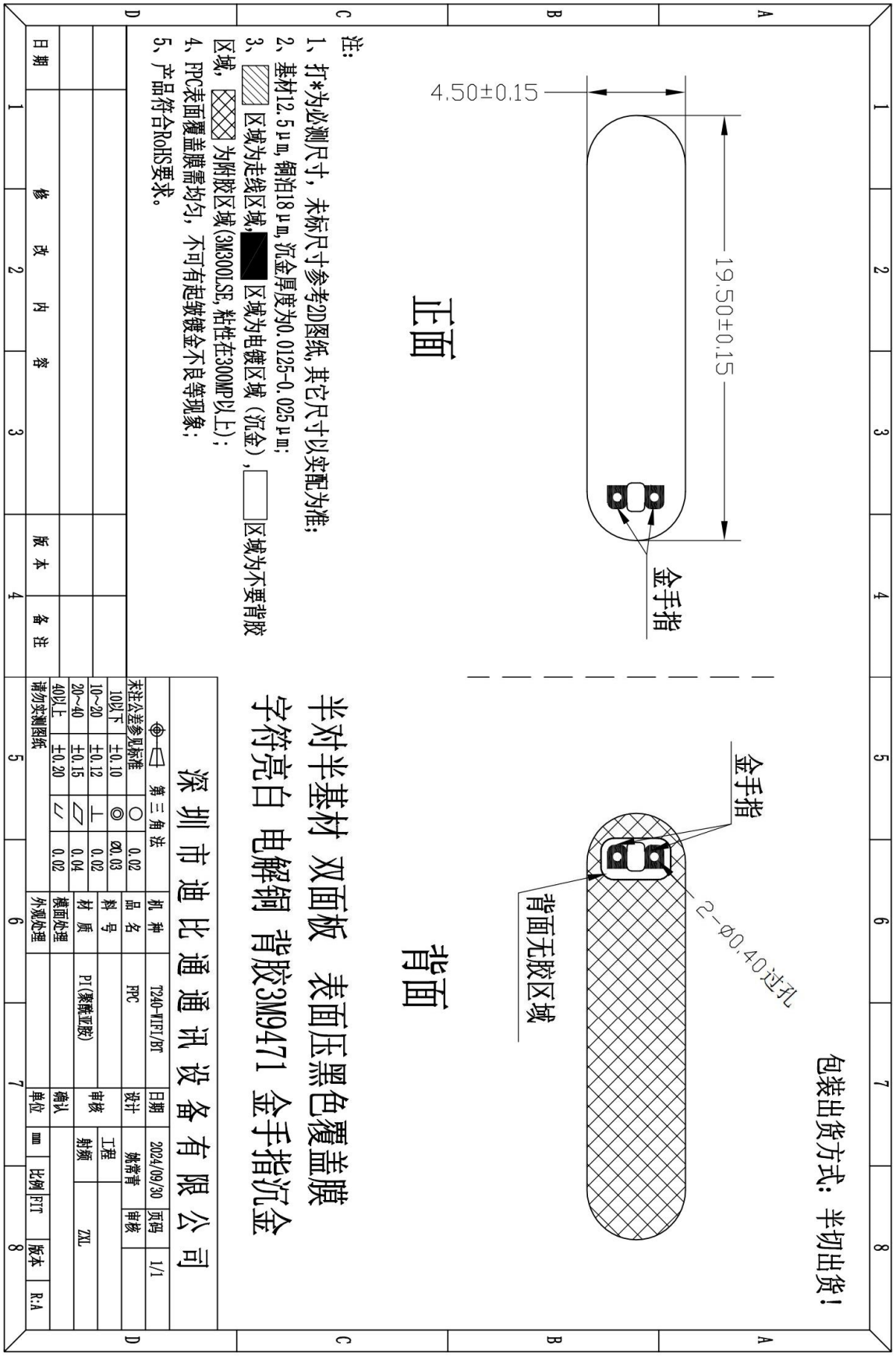
4.动态测试说明/**Dynamic test instruction**

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

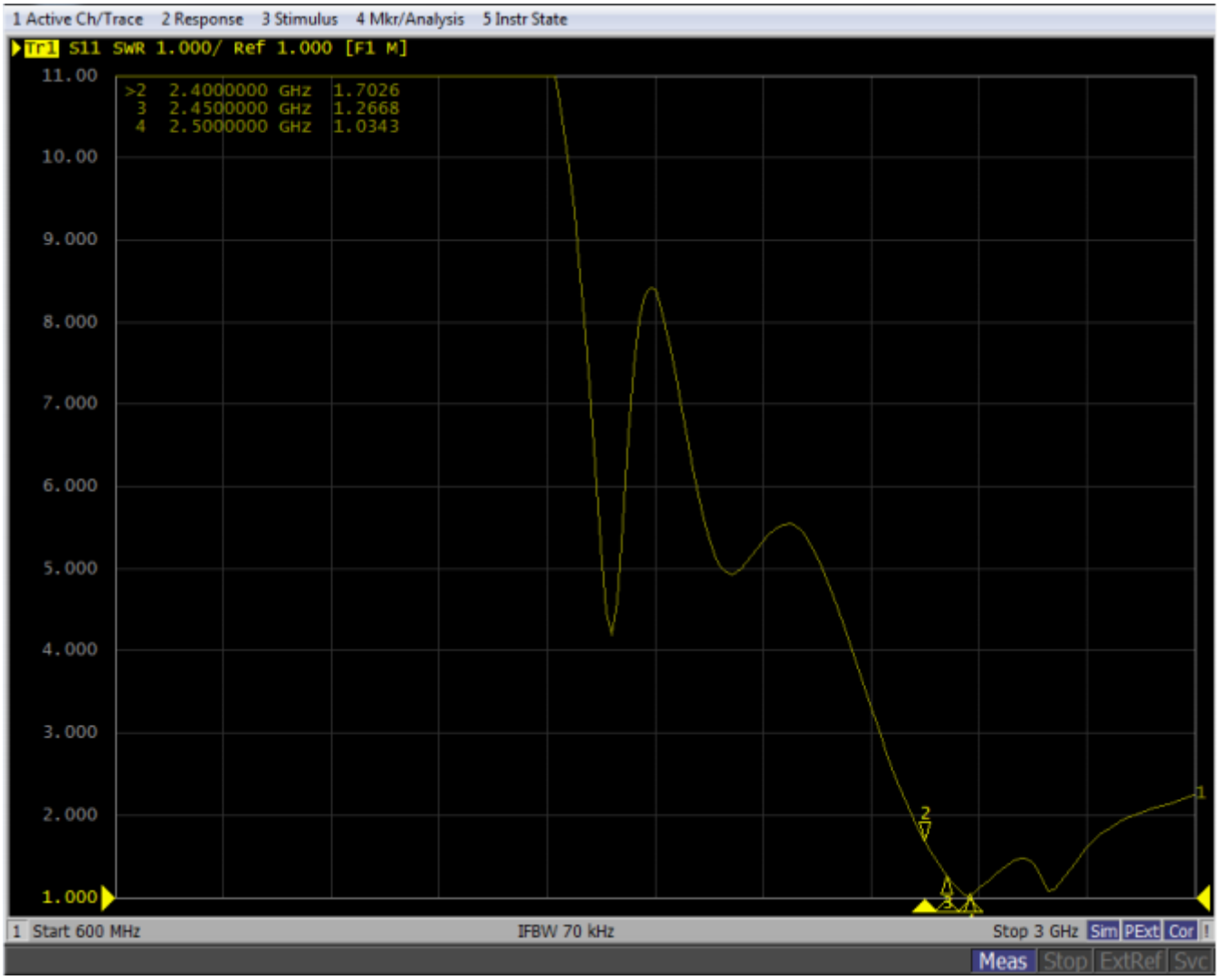


2.技术指标/ Technical target

A. 电气性能/Electrical Parameter	
工作频率范围/**Frequency Range**	**2400-2500MHz**
驻波比/**VSWR**	**2400-2500MHz:≤2.0**
天线增益/**Gain (MAX)**	**2400-2500MHz: -6.02 dBi**
平均辐射效率/**Radiation efficiency**	**2400-2500MHz: 7.97%**
阻抗/**Input Impedance**	**50 ohm**
B. 材料/ Material	
FPC	
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**

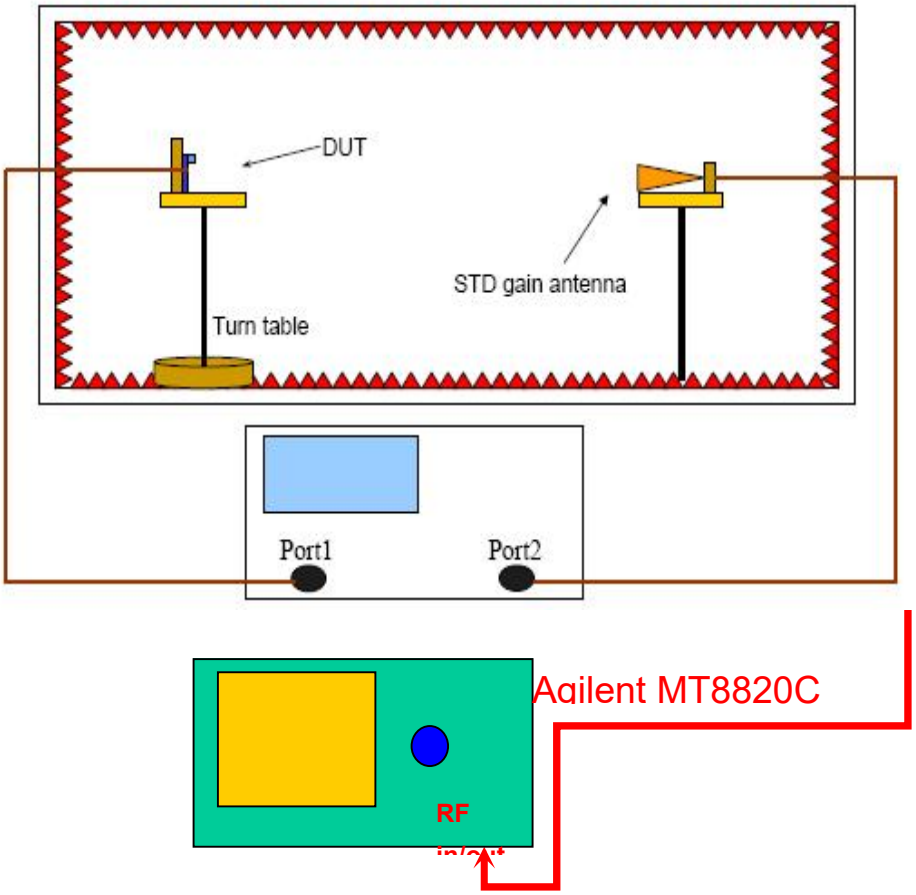
3.天线 S11 参数测试结果/

Test results of antenna S11 parameters

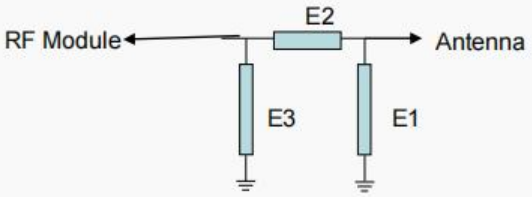


4.动态测试数据--- 天线安置在设备里/Dynamic test instructions - Antennas are placed in electronic scales

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



5.匹配电路/Matching Circuit



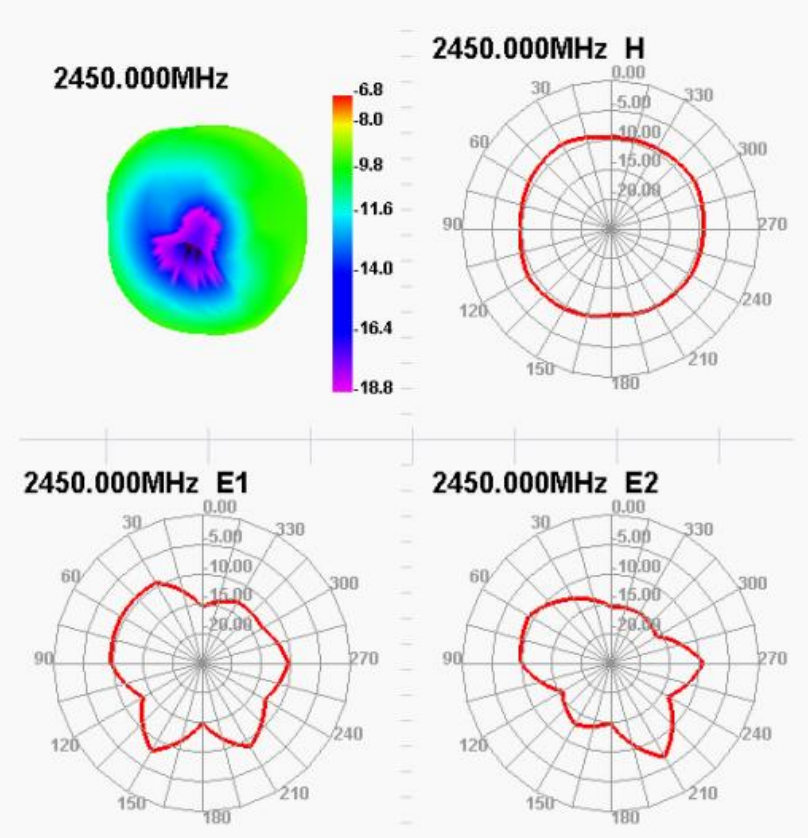
Element	2.4G WIFI
E1	NC
E2	0Ω
E3	NC

(匹配电路未做修改)

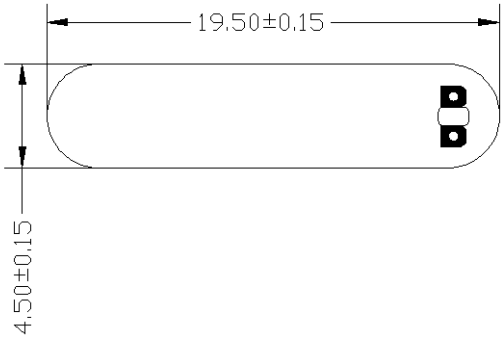
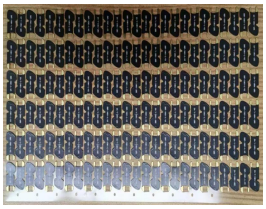
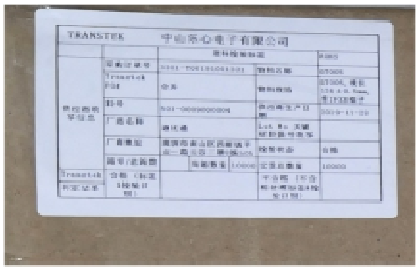
6.天线测试数据/Antenna test report

测试数据_无源效率/增益/方向图/Test data_Gain/Efficiency/3D POLar plot &Radiation Pattern

Freq (MHz)	Effi (%)	Gain (dBi)
2400	7.01	-6.98
2410	5.58	-8.11
2420	6.43	-7.66
2430	9.1	-6.11
2440	7.76	-6.85
2450	8.24	-6.77
2460	9.59	-6.1
2470	7.78	-7.06
2480	7.97	-6.94
2490	9.83	-6.02
2500	8.43	-6.62



7.包装方式/Packing method

<table>
<tr><td colspan="2">1.单个产品 2D 图/2D drawing of the product</td><td rowspan="3">产品料号/
The product material number</td><td rowspan="3"></td></tr>
<tr><td colspan="2"> 
</td></tr>
<tr><td colspan="2"></td></tr>
<tr><td colspan="2"></td><td>产品名称 /
Product name</td><td>T240_天线</td></tr>
<tr><td colspan="2"></td><td>产品版本/
Product version</td><td>/</td></tr>
<tr><td>2.箱内所有层堆放后的照片/Photos of all stacked layers in the box</td><td>3.整箱封箱后的照片/ Photo of the whole case after sealing</td><td></td><td></td></tr>
<tr><td> </td><td> </td><td>整版数量/
Number of full pages</td><td>以实际数量为准！</td></tr>
<tr><td></td><td></td><td colspan="2">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.</td></tr>
<tr><td>4.整版的照片/
A whole pack of photos</td><td>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</td><td colspan="2" rowspan="2">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.</td></tr>
<tr><td>  </td><td>  </td></tr>
<tr><td colspan="4">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.</td></tr>
</table>

确认者 /Confirmer	杨小平/ Yang Xiaoping		日期/Date	2024-11-12		

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:

此款天 线设计、研发知识产权为我司所有，如发现有相同产品未经我司允许供应给贵司，我司将依法追究相应法律责任，请尊重知识产权，您的支持是我们的无限动力，谢谢合作！/This antenna design and R&D intellectual property rights are owned by our company. If we find that the same products are supplied to your company without our permission, we will pursue the corresponding legal responsibility according to law. Please respect intellectual property rights. Your support is our unlimited power. Thank you for your cooperation.