



SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

ANTENNA DATA SHEET

- ◆ Projec: T240

- ◆ Name: 2.4G antenna

- ◆ Antenna Type: FPC antenna

- ◆ Peak Gain : -6.02dBi

Manufacturer: **SHENZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.**

Add: Rm505, 8th building, Yungu 2nd period, pingshan No.1 Road, Xili Town,Nanshan District, ShenZhen , China

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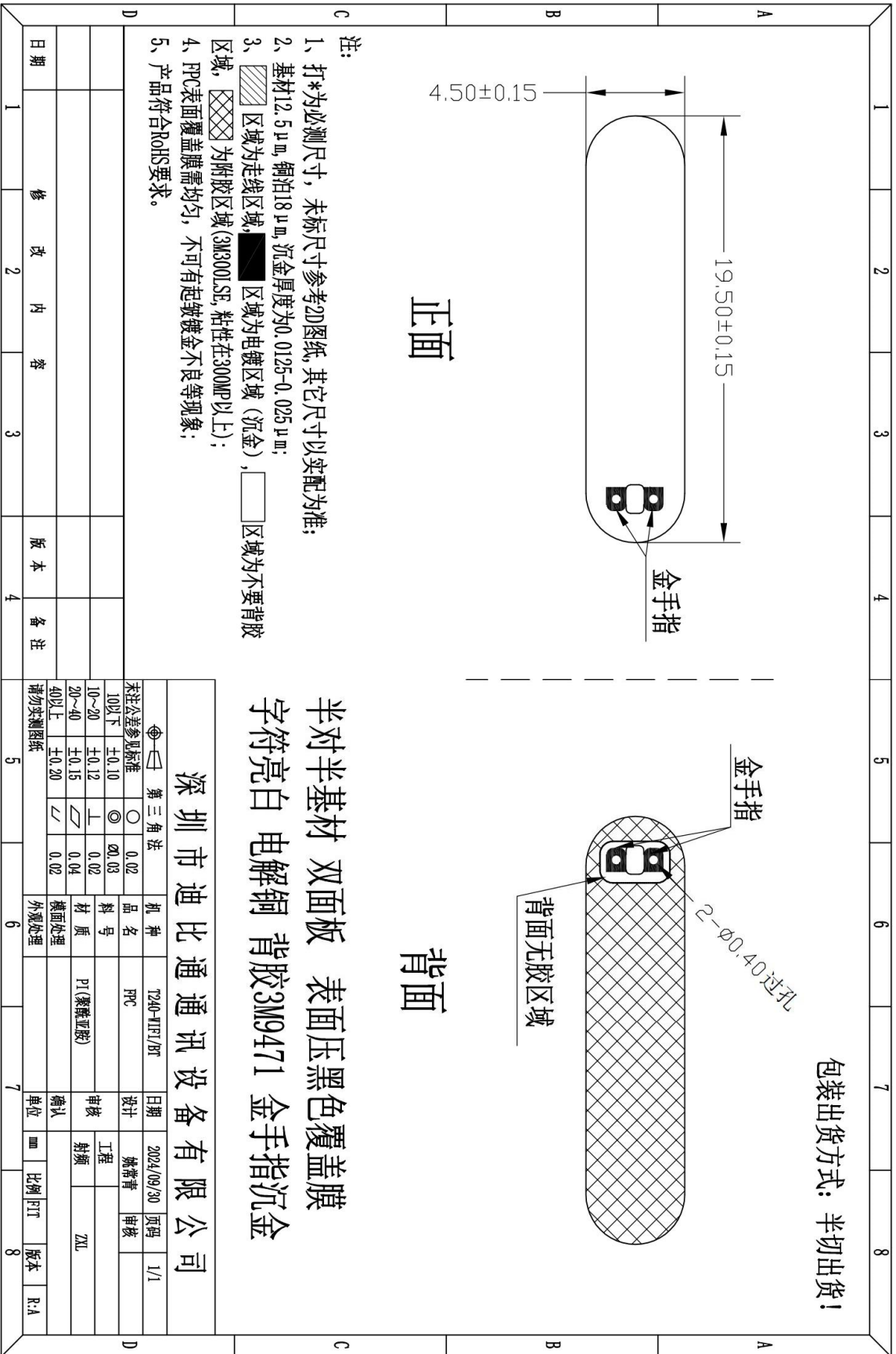
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1. Antenna 2D diagram



包装出货方式: 半切出货!

正面

背面

- 注:
- 1、打*为必测尺寸, 未标尺寸参考2D图纸, 其它尺寸以实配为准;
 - 2、基材12.5 μm , 铜泊18 μm , 沉金厚度为0.0125-0.025 μm ;
 - 3、▨区域为走线区域, ▩区域为电镀区域(沉金), □区域为不要背胶区域, ⊞为附胶区域(3M300LSE, 粘性在300MP以上);
 - 4、FPC表面覆盖膜需均匀, 不可有起皱镀金不良等现象;
 - 5、产品符合RoHS要求。

半对半基材 双面板 表面压黑色覆盖膜
字符亮白 电解铜 背胶3M9471 金手指沉金

深圳市迪比通通讯设备有限公司

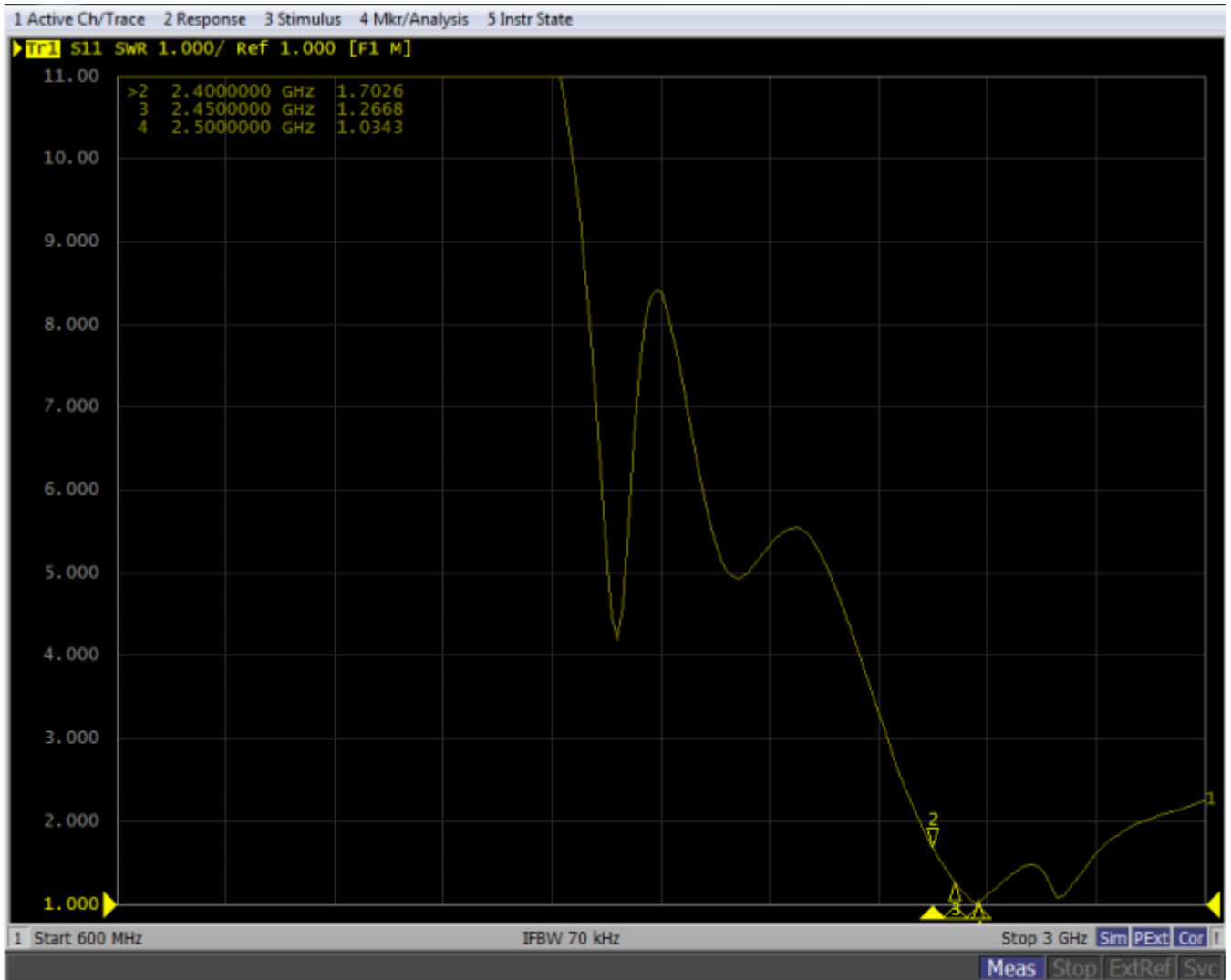
日期	修改内容	版本	备注	5	6	7	8
1	2	3	4	5	6	7	8

第三角法	机种	1240-TEF/BT	日期	2024/09/30	页码	1/1
未注公差参照标准	品名	FPC	设计	姚常青	审核	
10以下	料号		审核	工程		
10~20	材质	PI(聚酰亚胺)	确认	转频		ZXL
20~40	表面处理		确认			
40以上	外观处理		单位	mm	比例	1:1
请勿参照图纸	外观处理		单位	mm	比例	1:1

2. Technical target

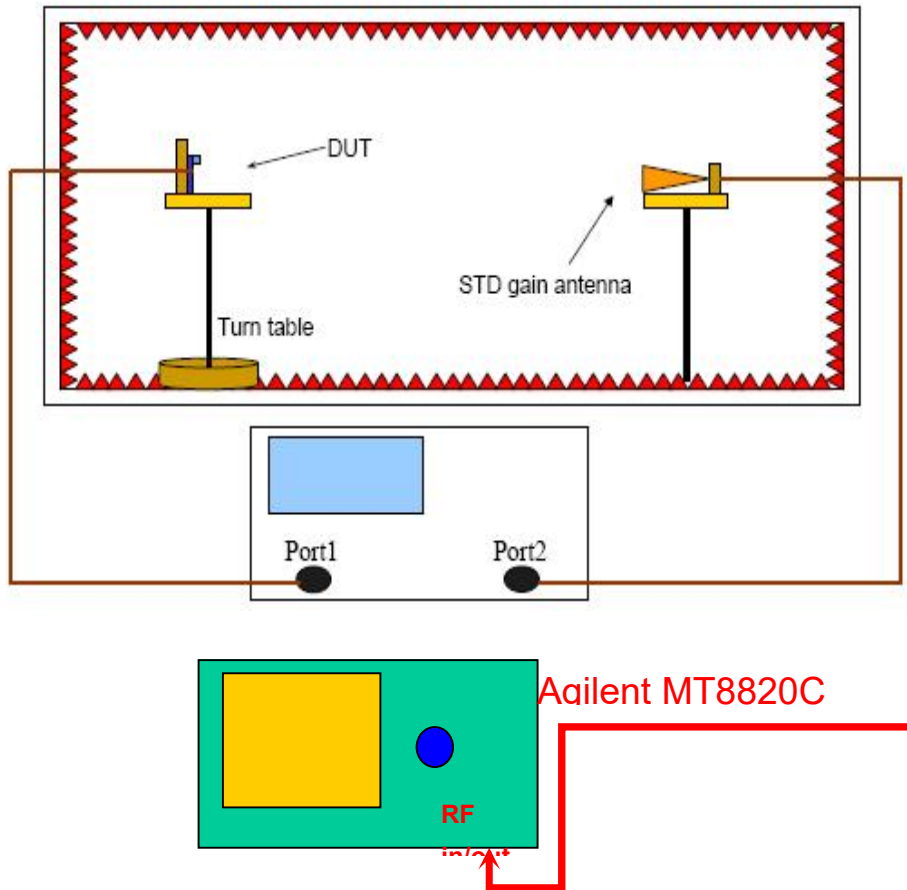
A. Electrical Parameter	
Frequency Range	2400-2500MHz
VSWR	2400-2500MHz: ≤ 2.0
Gain (MAX)	2400-2500MHz: -6.02 dBi
Radiation efficiency	2400-2500MHz: 7.97%
Input Impedance	50 ohm
B. Material	
FPC	
C. Environmental Science	
Working Temperature	- 30°C ~ + 85 °C
Storage temperature	- 30°C ~ + 85 °C

3 Test results of antenna S11 parameters

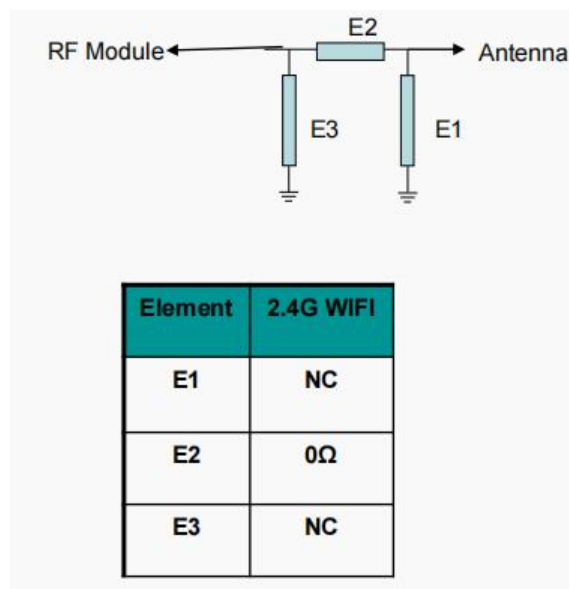


4. Dynamic test instructions - Antennas are placed in electronic scales

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



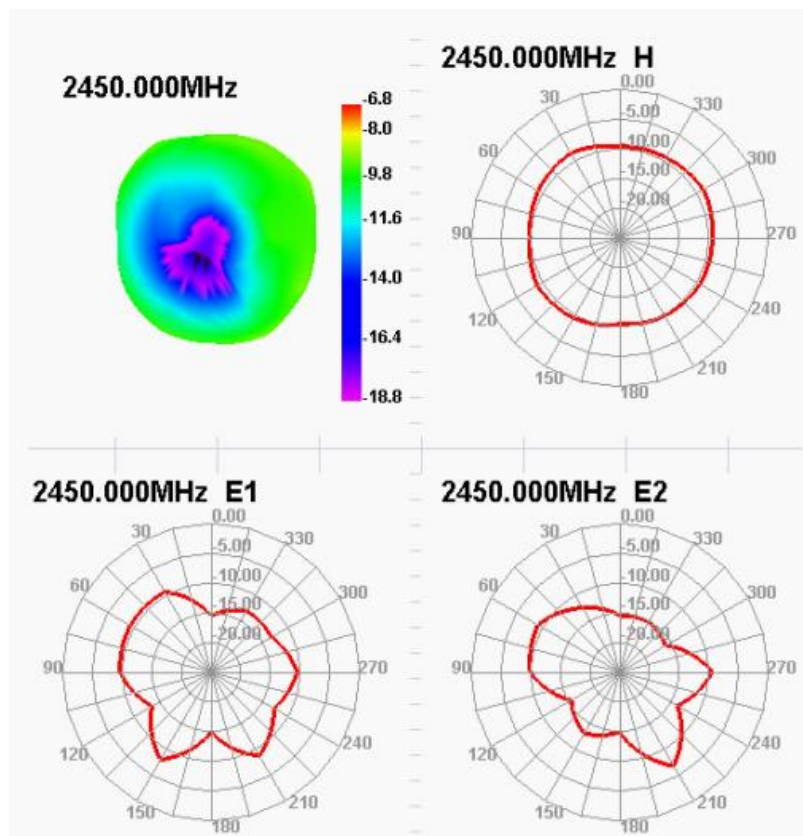
5. Matching Circuit



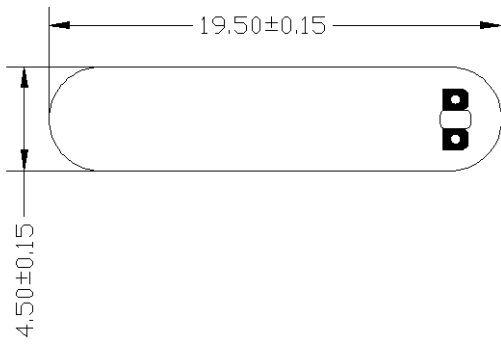



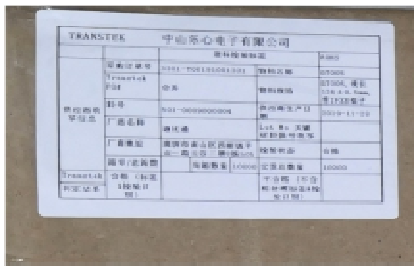
6. Antenna test report

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. Packing method

1. 2D drawing of the product		The product material number	
		Product name	T240_天线
		Product version	/
2. Photos of all stacked layers in the box	3. Photo of the whole case after sealing	Number of full pages	
		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. A whole pack of photos	5. A photograph of the label on the surface of the entire case	Storage conditions: between -10° to 30° , humidity 70% Rh below the indoor.	
			
Note: the picture in the picture above is only used for packing standard demonstration, not for final data audit.			
Confirmer	Yang Xiaoping	Date	2024-11-12

Remark:

1. The above test results are limited to the test prototype.

2. 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. 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.

Solemnly declare:

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.