



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

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## 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

# Contents

**1. Antenna 2D diagram**

**2. Technical target**

**3 Test results of antenna S11 parameters**

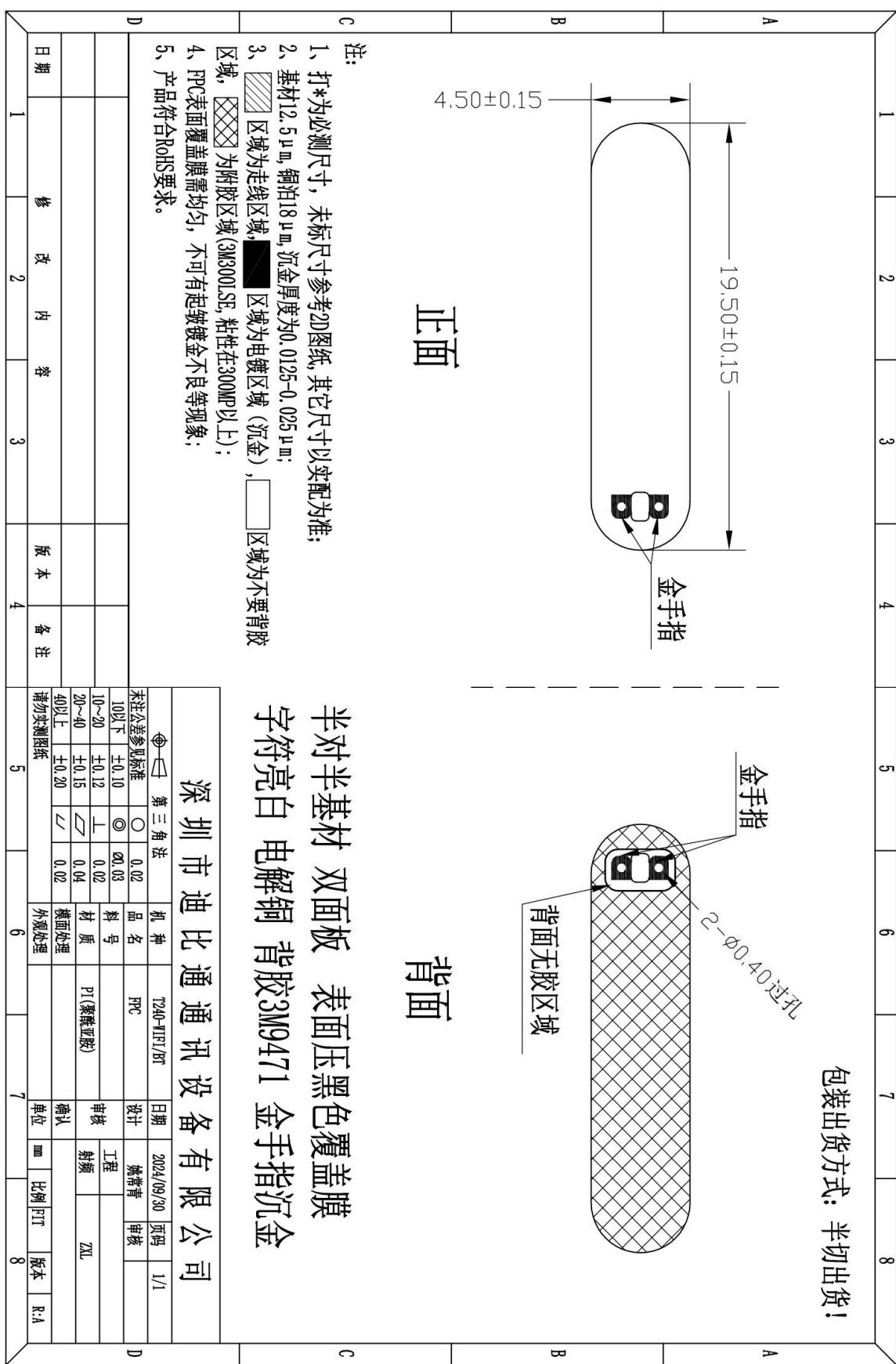
**4. Dynamic test instruction**

**5. Matching Circuit**

**6. Antenna test report**

**7. Packing method**

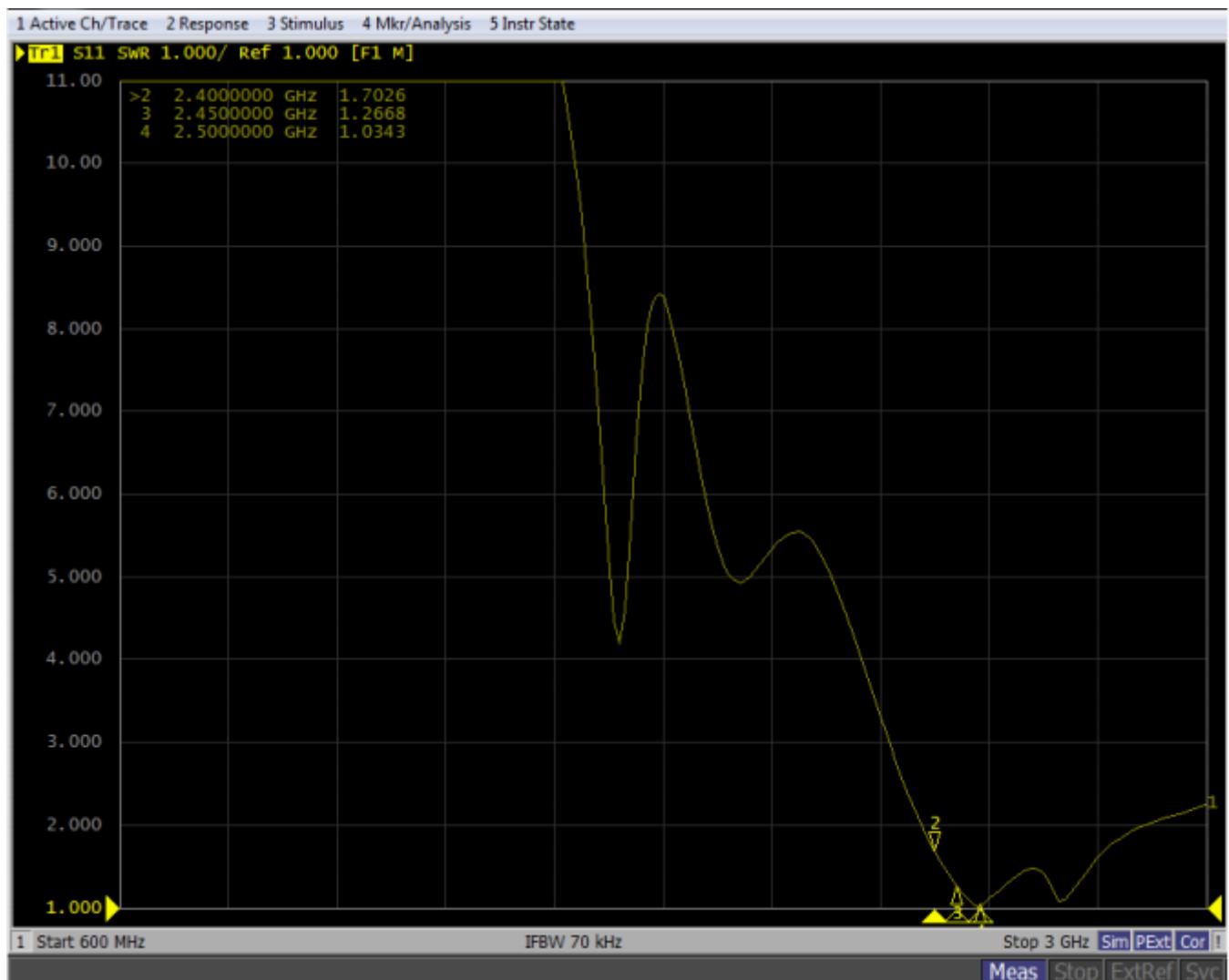
## 1. Antenna 2D diagram



## 2. Technical target

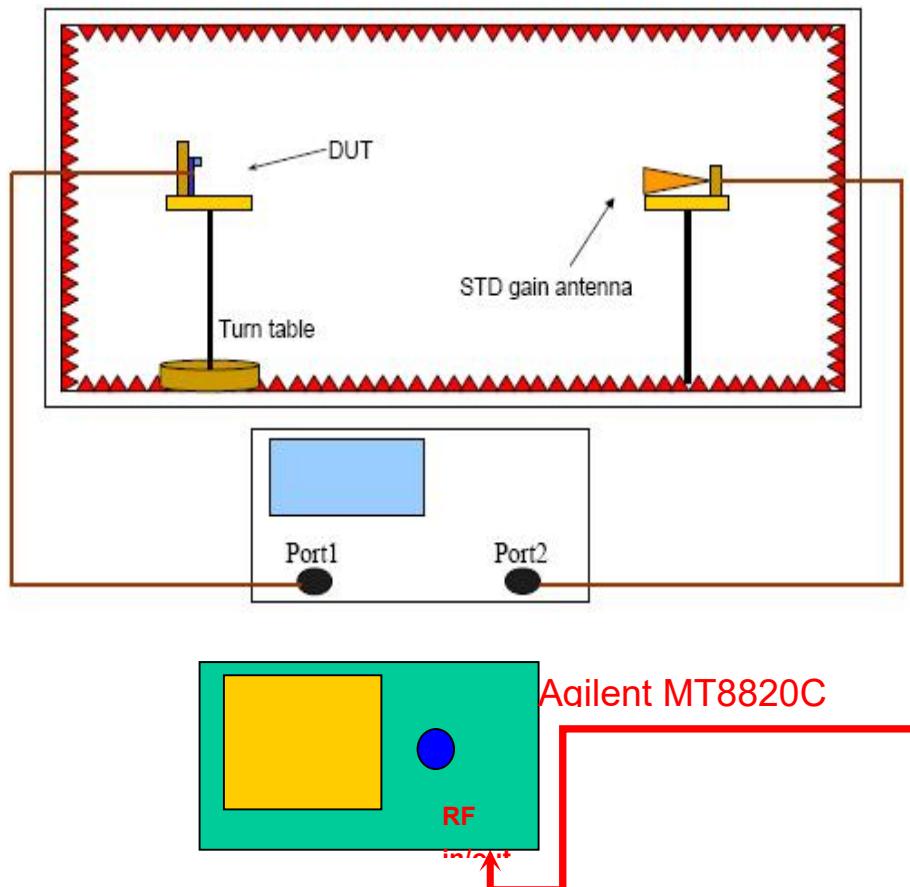
<b>A. Electrical Parameter</b>	
<b>Frequency Range</b>	<b>2400-2500MHz</b>
<b>VSWR</b>	<b>2400-2500MHz: ≤2.0</b>
<b>Gain (MAX)</b>	<b>2400-2500MHz: -6.02 dBi</b>
<b>Radiation efficiency</b>	<b>2400-2500MHz: 7.97%</b>
<b>Input Impedance</b>	<b>50 ohm</b>
<b>B. Material</b>	
<b>FPC</b>	
<b>C. Environmental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

### 3 Test results of antenna S11 parameters

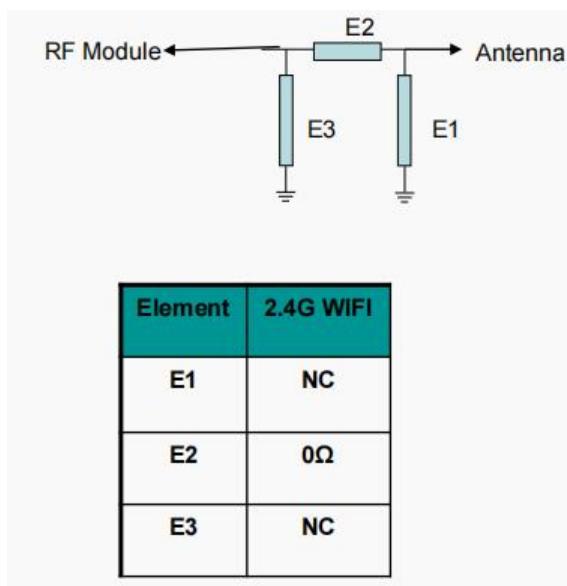


**4.** Dynamic test instructions - Antennas are placed in electronic scales

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



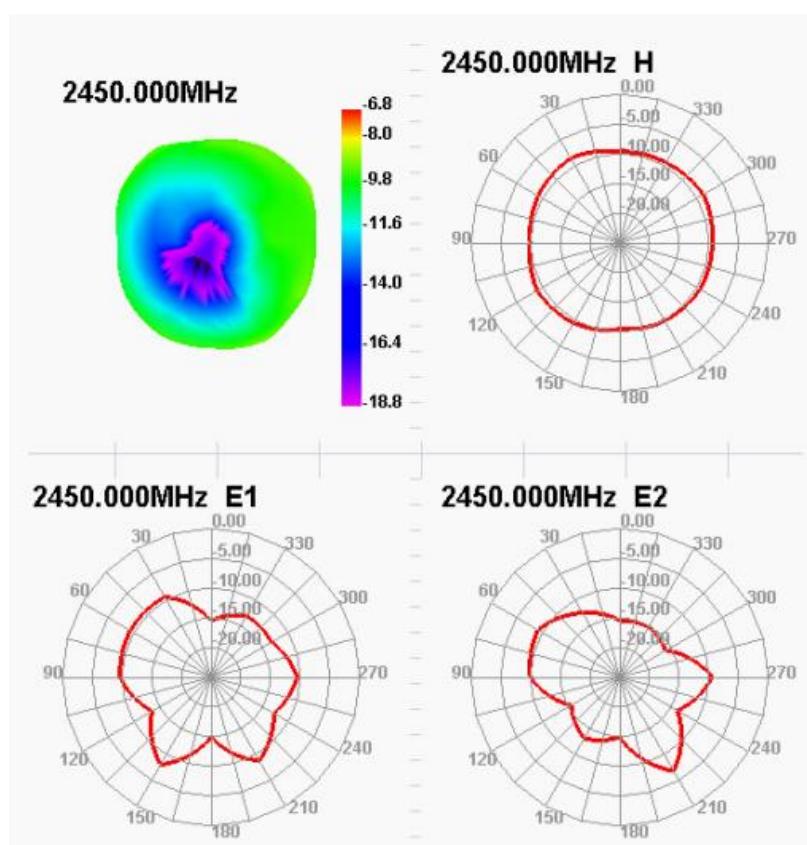
**5.** Matching Circuit



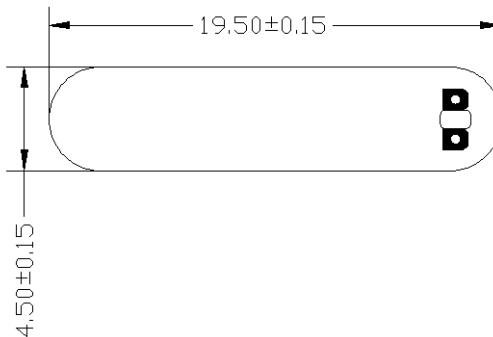
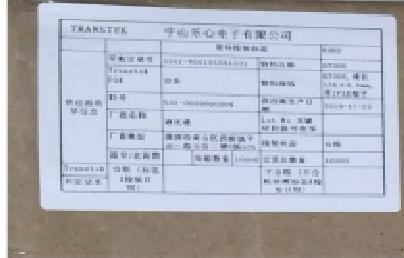
## 6. Antenna test report

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 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.				
Confirmator	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.