



SHENGZHEN DIBITONG TELECOMMUNICATION TECHNOLOGY CO.,LTD.

Mobile communication terminal antenna
Product design and manufacturing specifications

◆ Customer: Neewer

◆ Project:RGB 1200

◆ Name: 2.4G Antenna

shrapnel ☐ FPC ☒ support ☐ coaxial ☒

◆ Part no: 4-07-00-000369

◆ Designer:

◆ Check:

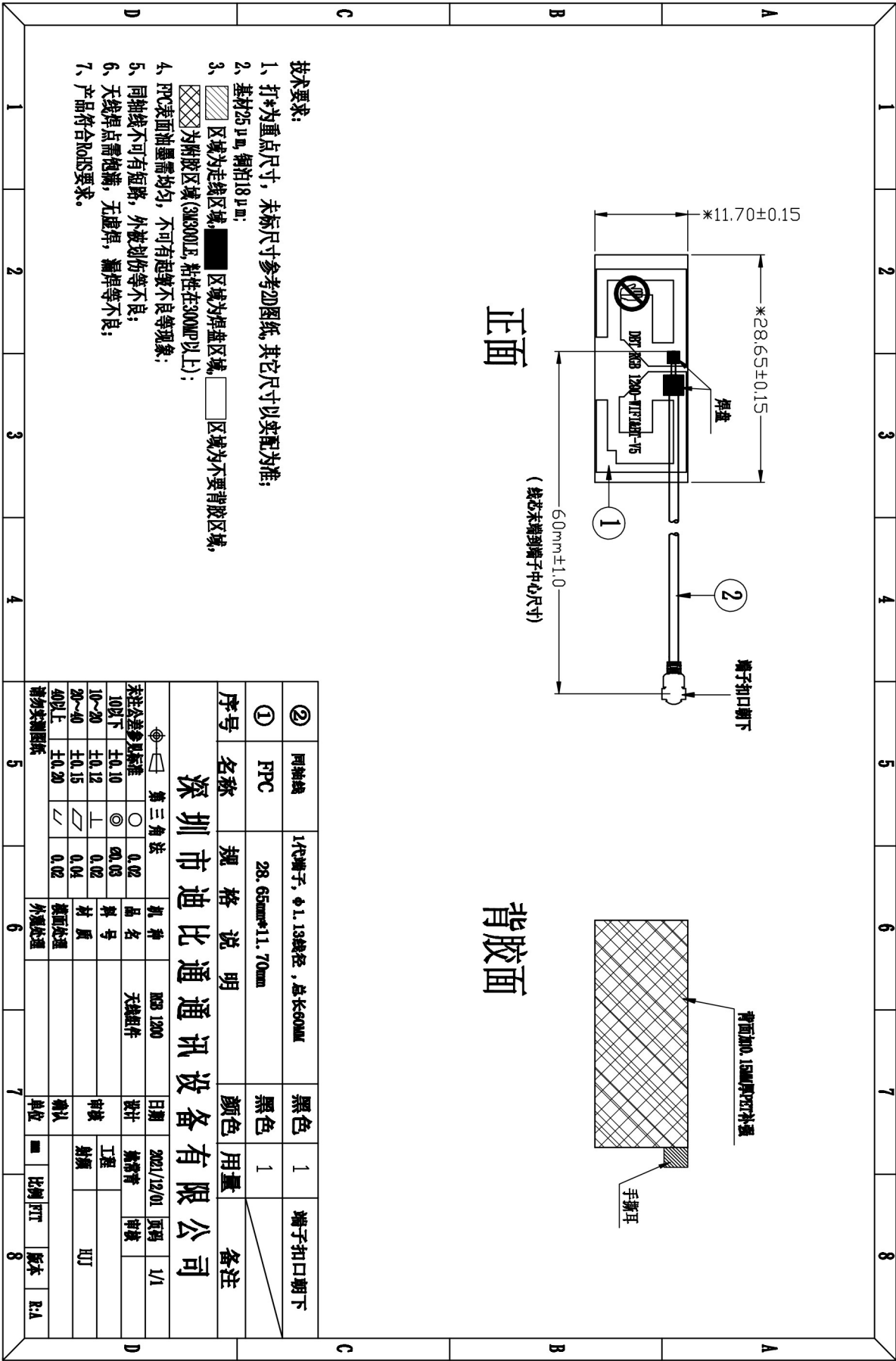
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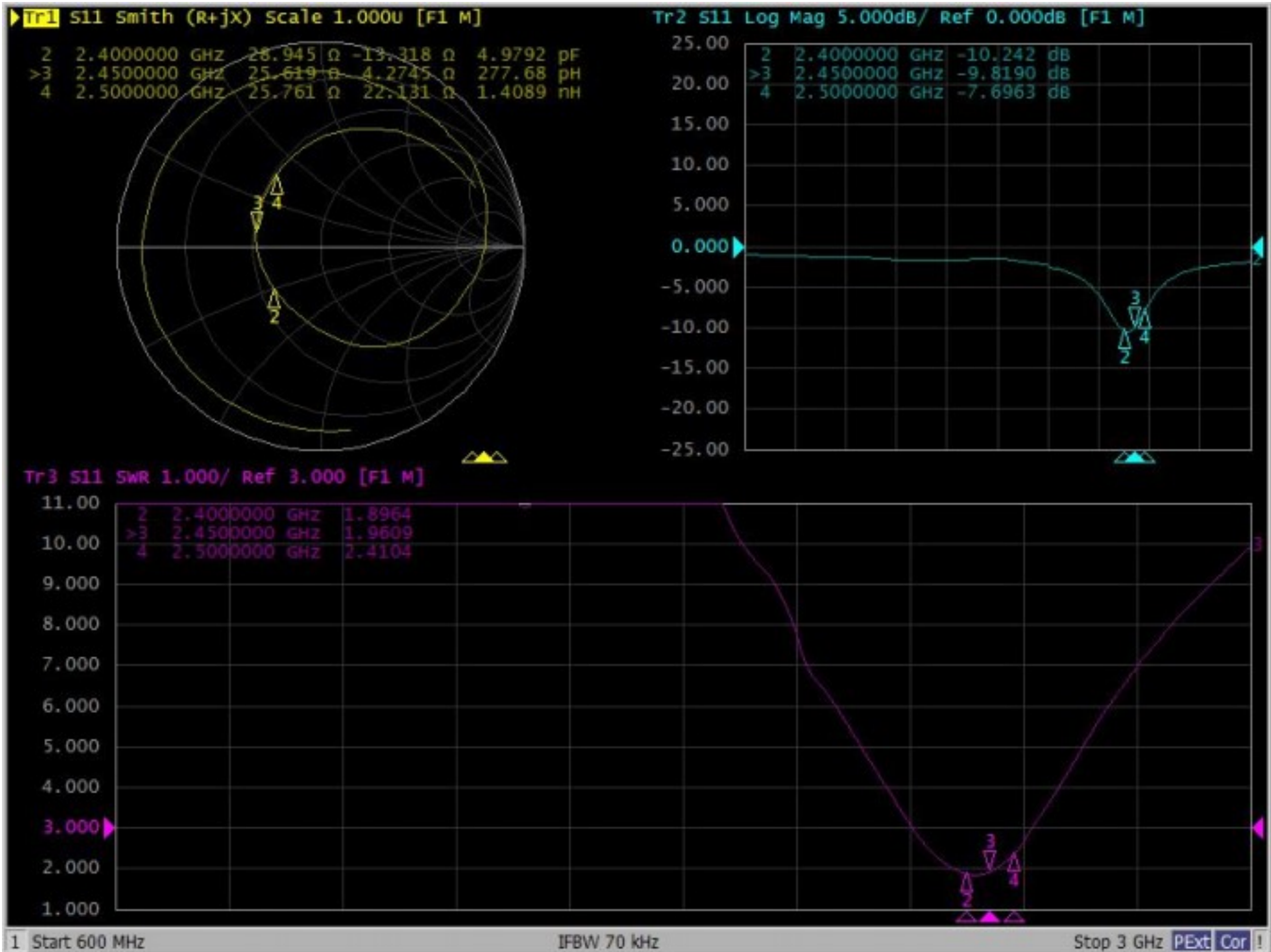
1.Antenna finished product



2. Technical indicators

A. Electrical properties	
Operating frequency range	2400 ~ 2500 MHz
Standing wave ratio	≤2.0
Input resistance	50 ohm
B. Material	
FPC+Cable	
C. Environment	
Operating temperature	- 30°C ~ + 85 °C
Stored temperature	- 30°C ~ + 85 °C

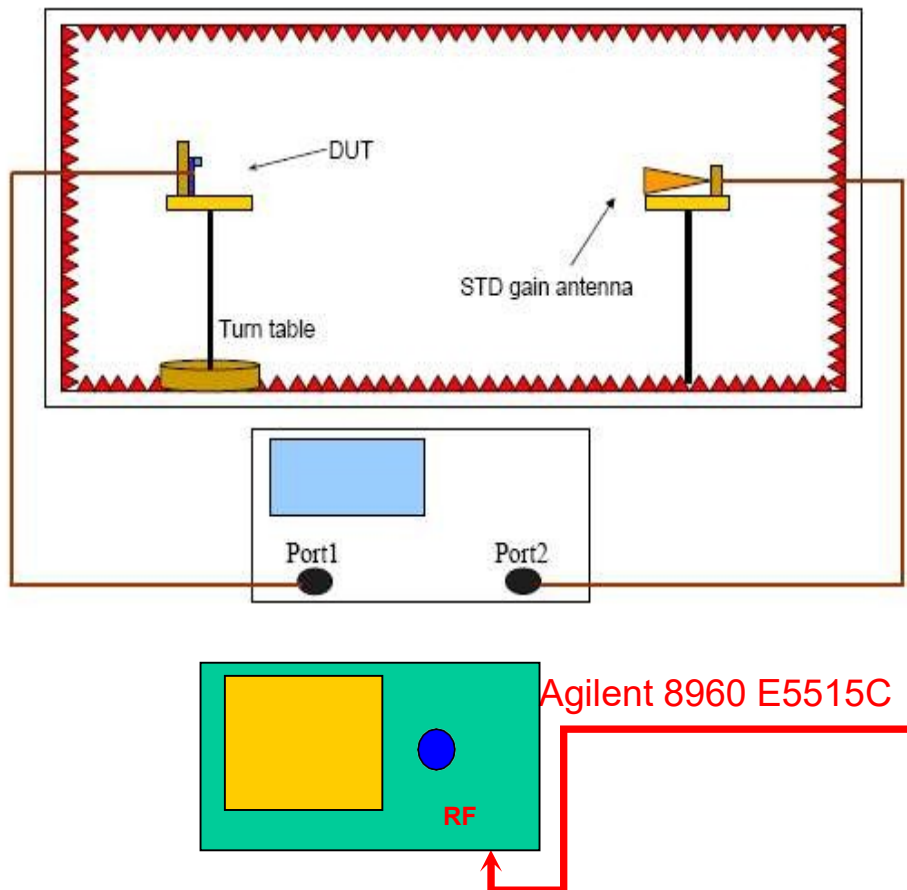
3.S11 VSWR/Impedance Test Results



Impedance: 50 Ohm

4. Dynamic test data

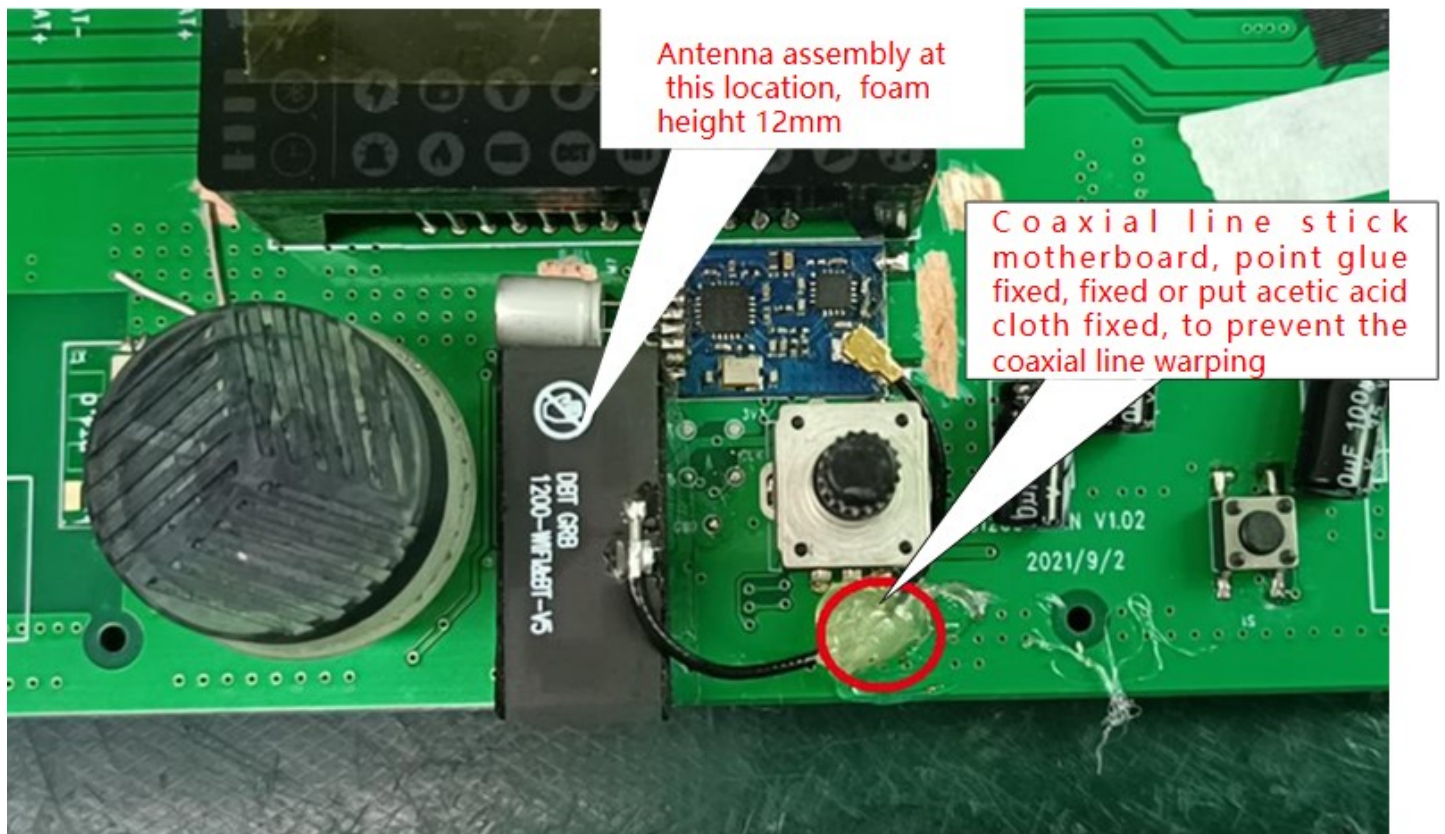
Test instrument: Agilent 8960 E5515B+ Chamber



5. Antenna matching circuit diagram

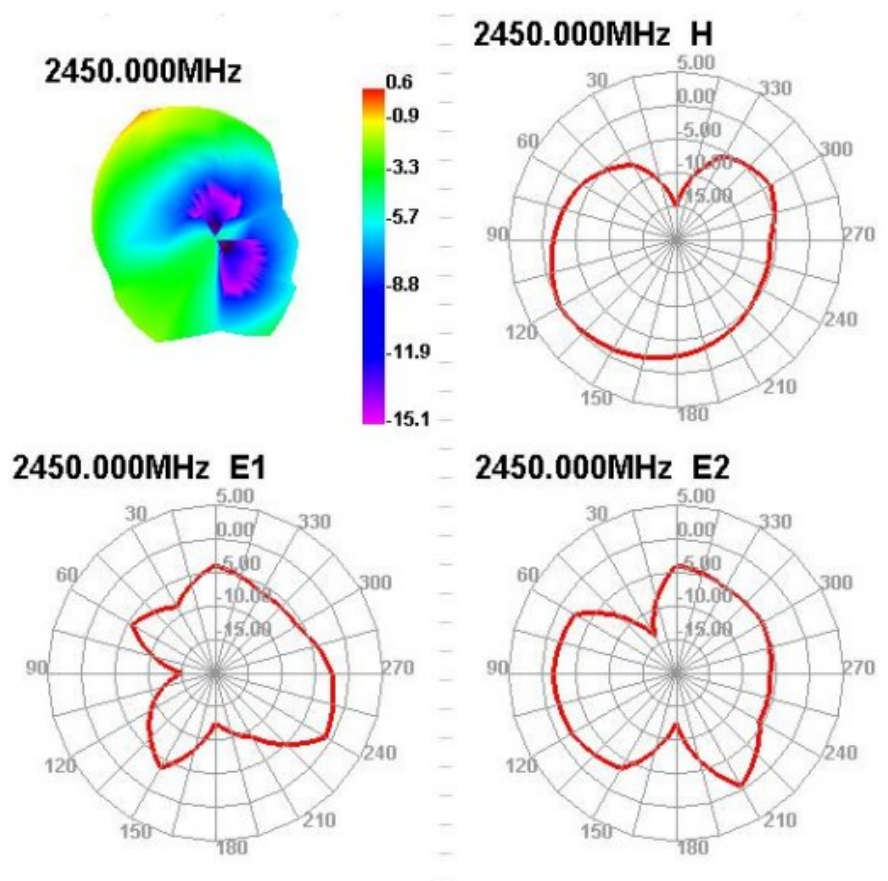
*The match is unmodified.

6. Antenna test environment processing diagram



7. Antenna actual test data

Freq (MHz)	Effi (%)	Gain (dBi)
2400	30.85	0.18
2410	32.94	0.59
2420	30.79	0.48
2430	32.89	0.71
2440	31.26	0.66
2450	32.33	0.61
2460	30.78	0.38
2470	31.27	0.25
2480	32.73	0.2
2490	27.62	-0.83
2500	31.83	-0.53



Note:

- 1. The above test results are limited to the test prototype**
- 2. Changes in the overall casing material process, software version, accessories (camera FPC, speakers, earpieces, motors, batteries, etc.), and chips will lead to changes in the performance of the overall antenna.**
- 3. Changes in the environmental processing of the whole machine (such as grounding position, size, shielding method, etc.) lead to changes in the performance of the whole machine**

Solemnly declare:

The intellectual property rights of this antenna design and research and development are owned by our company. If we find that the same products are supplied to your company without our permission, our company will investigate the corresponding legal responsibilities according to law. Please respect the intellectual property rights. Your support is our unlimited power. , thank you for your cooperation!