

Product Number: 04.A1.天线带

PCB Product Name: 2.4/5Gwifi/蓝牙双频天线

manufacturer: Shenzhen Xinchida Technology Co., Ltd.

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1. Specification

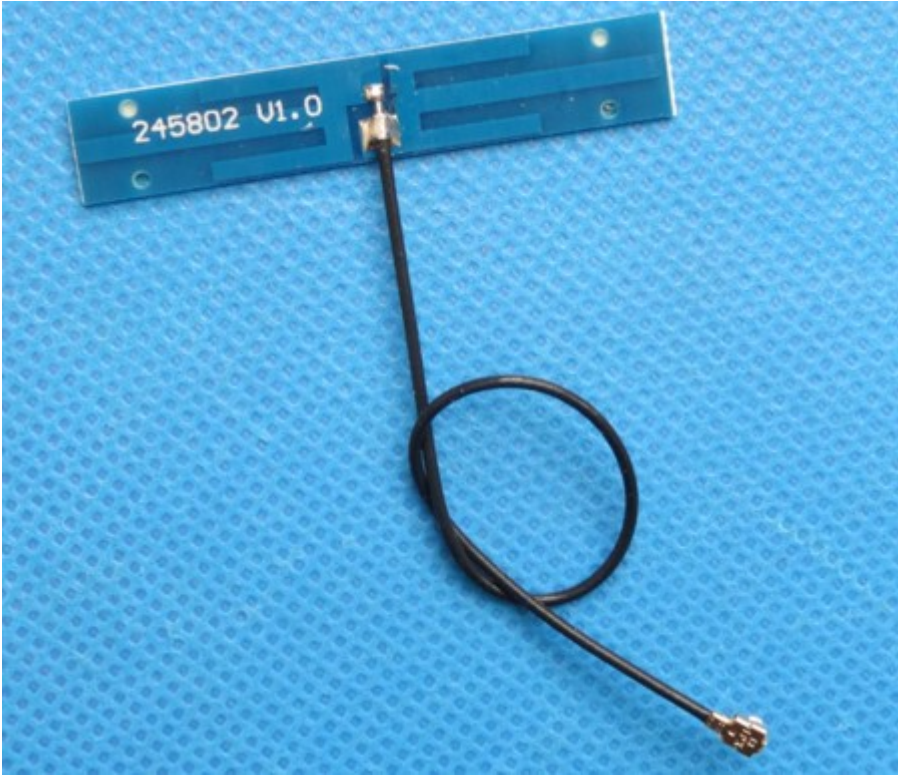
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1. Specification



A. Electrical Characteristics	
Frequency 天线频率	2400-2500MHZ / 5150~5850MHZ
S.W.R. 驻波比	< 2.0
Antenna Gain 天线增益	4 dBi ±0.7 @ E-Plane // Peak Gain
Polarization 极化方式	Linear 线性极化
FPCB SIZE 天线尺寸	50.8*9*0.6mm
Impedance 阻抗	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator 材质	FR-4
Cable Type 线材类型	RG-1.13
Connector Type 天线接口	50 ohm / I-PEX MHF20278-111R-13
Cable length 天线长度	从焊点算起 13CM
AntennaNOTIC 天线注意事项	天线面板尽量避开贴在金属物上
C. Environmental	
Operation Temperature	- 40 °C ~ + 80 °C
Storage Temperature	- 40 °C ~ + 80 °C

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Antenna Color Storage life	< 2 year
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2. Characteristics and Reliability Test

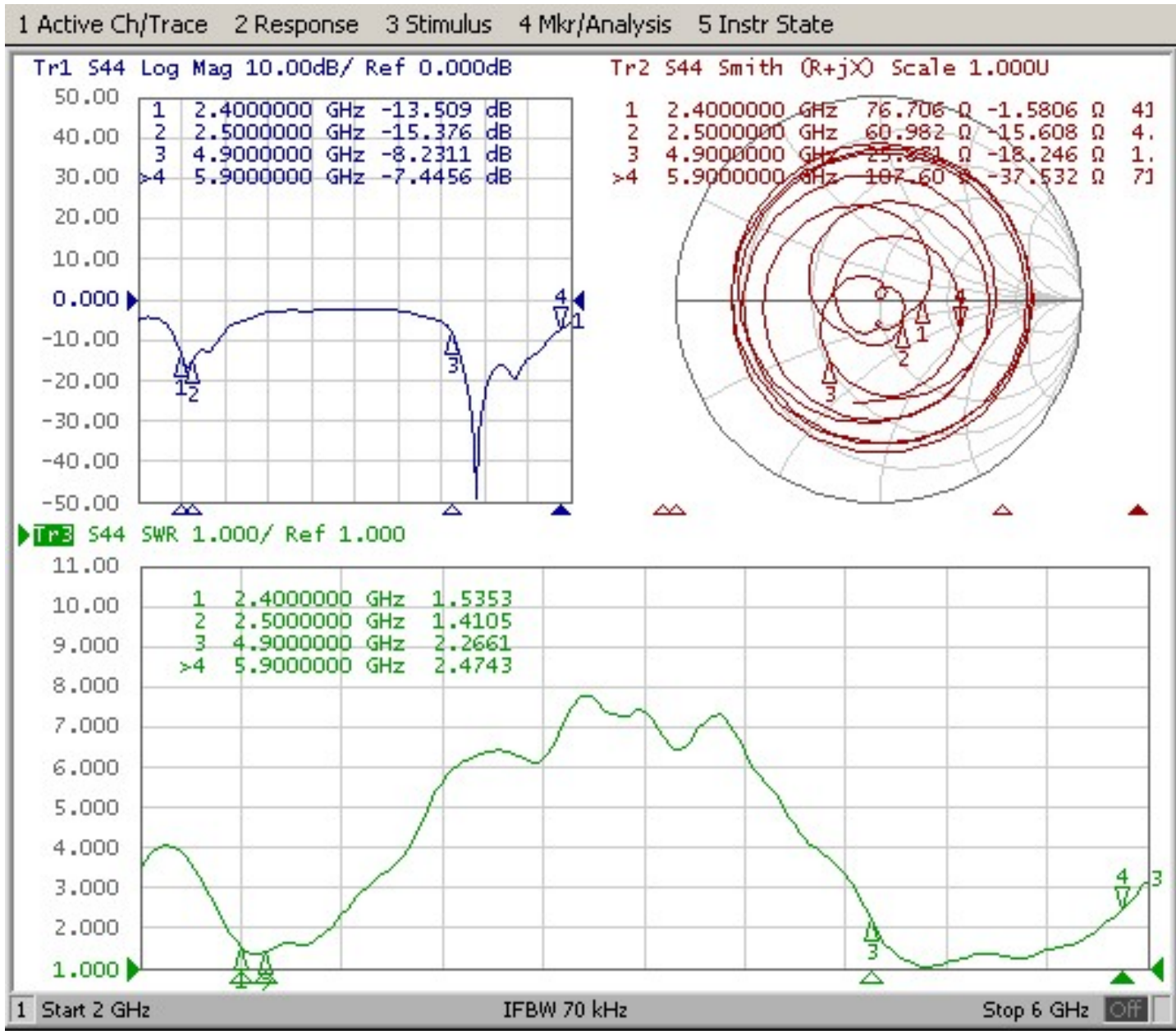
Test Items		Test Condition and Procedure	Requirements
C1	S.W.R.	Set DUT on Network Analyzer; make individual calibration to test	Directive DUT specification
C2	Antenna Gain	Set DUT on Antenna Chamber; make individual calibration to test	Directive DUT specification
M1	Vibration	GB / T2423 . 48-1997 Amplitude: 0.03 inch (1.5mm); Freq: 20 to 80 to 20 Hz 3 directions; 2 hours for each direction	1. No Visual Damage 2. Frequency Tol.<= 5%
M2	Random Drop	GB / T2423.8-1995 Height: 1.0 Meter; 3 directions; 1 time for each direction	1. No parts separated 2. Frequency Tol.<= 5%
M3	Solderability	GB 2423 . 28- 82 Solder iron: 260±5°C; Duration: 5 seconds	1. Mounted on PCB 2. No Visual Damage
M4	Terminal-Pull Test	Holding with individual specification; force applied to axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M5	Terminal-Torque Test	Holding with individual specification; applied clockwise and counterclockwise to the axis of terminal	1. Directive DUT specification 2. Frequency Tol.<= 5%
M6	Dimension	Inspection of dimension, color, material, package, surface process	Directive DUT specification
E1	Salt Spray	GB / T 2423 . 17- 93 Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E2	Humidity	GB / T 2423 . 4 - 93 Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%

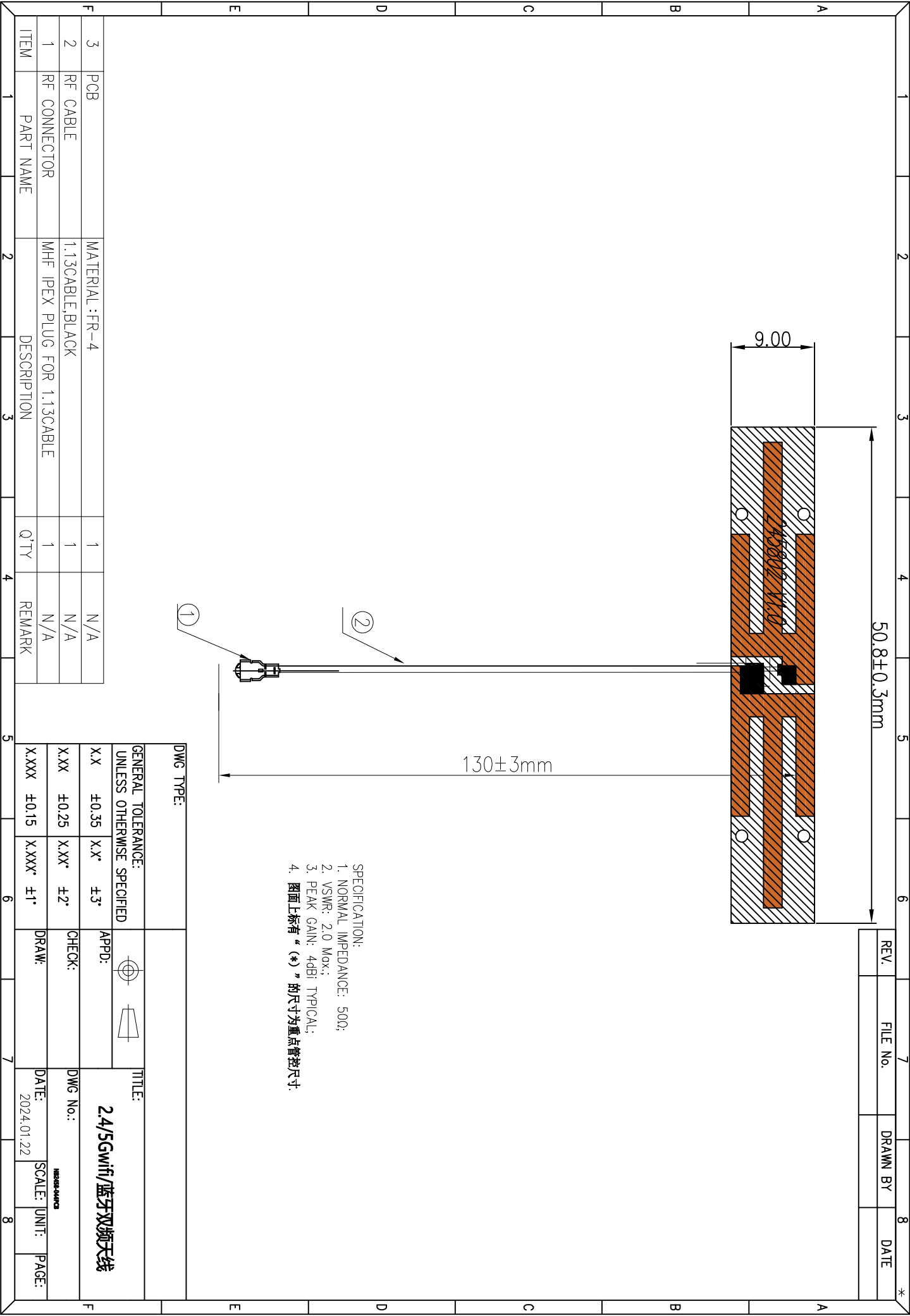
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E3	Thermal Shock	GB / T 2423 . 22 - 87 1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes) Cycles: 24	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
E4	Life (High Temp.)	GB /T 2423 . 2 - 89 Temp: 80°C; Time: 24 hours	After 2 Hours Recovery 1. No Visual Damage 2. Frequency Tol.<= 5%
R3	PFOA	With Reference to USA EPA 3540C:1996 by LC/MS	Directive RoHS 2006/122/EC

3. Antenna - S Parameter Test Data





Model : 2.4GHz Antenna
Remark : H-Plane // Vertical Polarization
Tested by : Antenna 3D Chamber // Zhao Yao Rong

Location: **Chamber**
Time: 上午 10:33:40
Temperatuer (°C): **22.00**
Approved by:

Freq. (MHz)	2390	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Peak Gain (dBi)	4.38	4.38	4.62	4.64	4.70	4.53	4.59	4.53	4.70	4.56	4.58	4.4
Peak Degree	27	27	27	27	21	15	0	345	258	263	252	245
AV Gain (dBi)	4.1	4.1	4.33	4.31	4.43	4.32	4.34	4.34	4.41	4.18	4.24	4.19

