

Shenzhen Lxc Electronics Technology Co ., Ltd

深圳市连兴创电子科技有限公司

APPROVAL SHEET

承认书

客户 (Customer) : 弘图

产品 (Product) : 2.4G-WIFI 天线 (L=70MM)

型号 (Model) : T500

料号 (Part Number) : LXC1BL70202601200001

制作人 (Written By) : 唐红交

签发时间 (Issued Date) : 2026-01-20

客户 CUSTOMER

频率范围 Frequency range	WIFI:(2.4/2.5) (MHz)
驻波比系数 VSWR	<2.0
输入阻抗 Input Impedance	50 (Ω)
极化方式 Polarization	垂直极化 Vertical Polarization
半功率波束 (3dB) HPW	180° H-plane 120° E-plane

RF by		Checked by	
ME by		Date	
Customer Confirm			

8Project:		Author:Wang	T500
Date: 2026-01-20			
TEST:	Language:	Check: Zhong	
A	English		
Address: 4th Floor, Building C, Jinruihua Industrial Park, No. 12 Huafang Road, Dalang Street, Longhua District, Shenzhen 电话: 0755-29195258 传真: 0755-29590286 Shenzhen Lxc Electronics Technology Co ., Ltd			

Revision History

Date	Revision	Description of Changes
2026-01-20	RA	Measured with SUS301 sample.

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1 Technical Summary

This report summarizes the electrical results of the proposed antenna to support the program. We test the antenna with the latest version handset. And it seems to be acceptable.

2 General Description

2.1 Components/Part revisions

VSWR: Voltage Standing Wave Rate.

3 Mechanical Description

4 Electrical Performance

4.1 Set-up

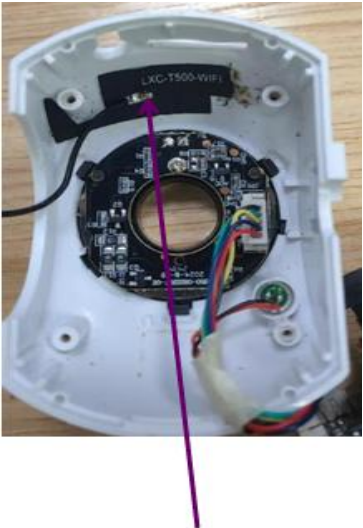
4.1.1 VSWR

VSWR measurements (S11) were performed using an Agilent 8753D Network Analyzer and the previously described test fixture. Coaxial chokes were used to mitigate surface currents on the outside of the cabling. The testing was performed in free space.

4.1.2 Gain & Radiation Patterns

The gain of the antenna was measured in the Lxc’s anechoic chamber. Coaxial chokes on the feed cable were used to mitigate surface currents. The chamber provides less than –30 dB reflectivity from 800 MHz through 3 GHz and an 18” diameter spherical quiet zone. The measurement results are calibrated using both dipole and leaky wave horn standards.

4.1.3 Matching Circuit Description

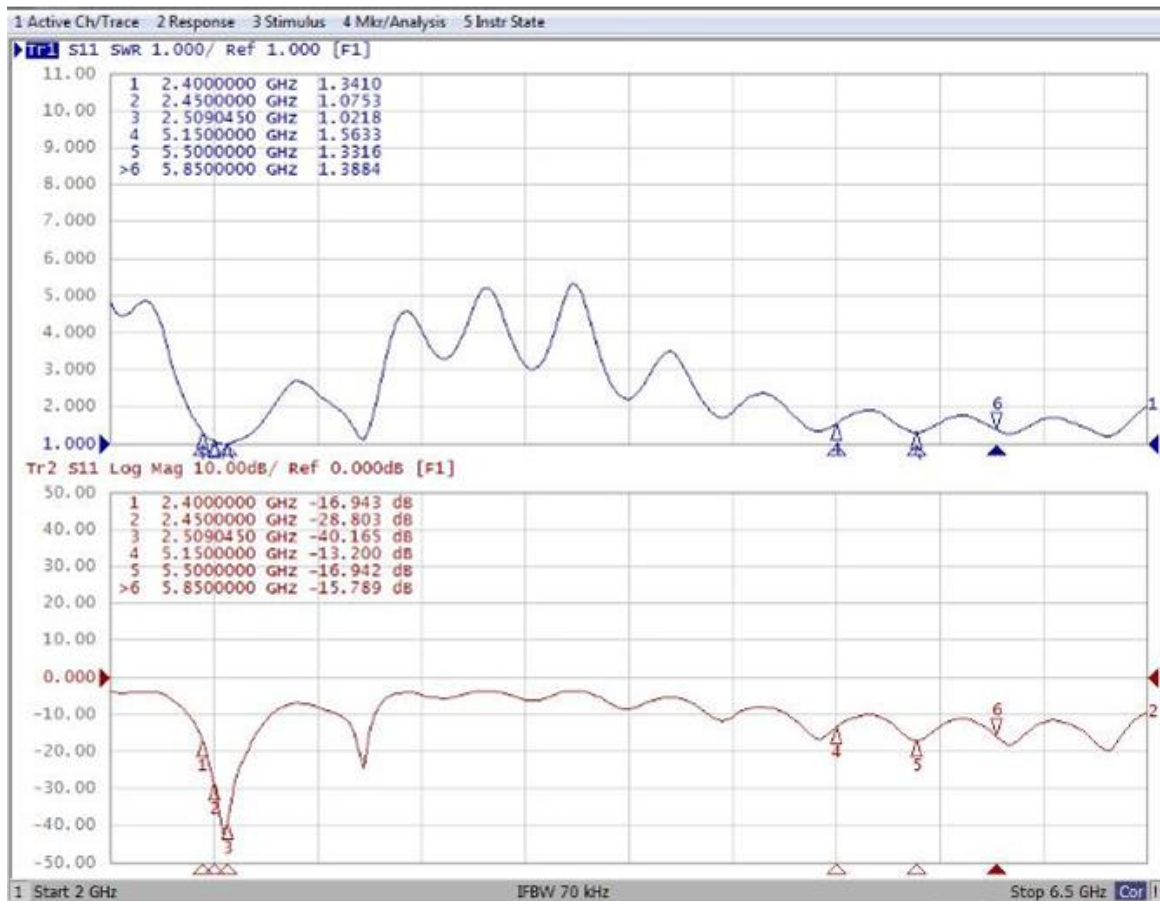


按图安装天线

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4.2 Measurement Data

4.2.1 Active result (WIFI)



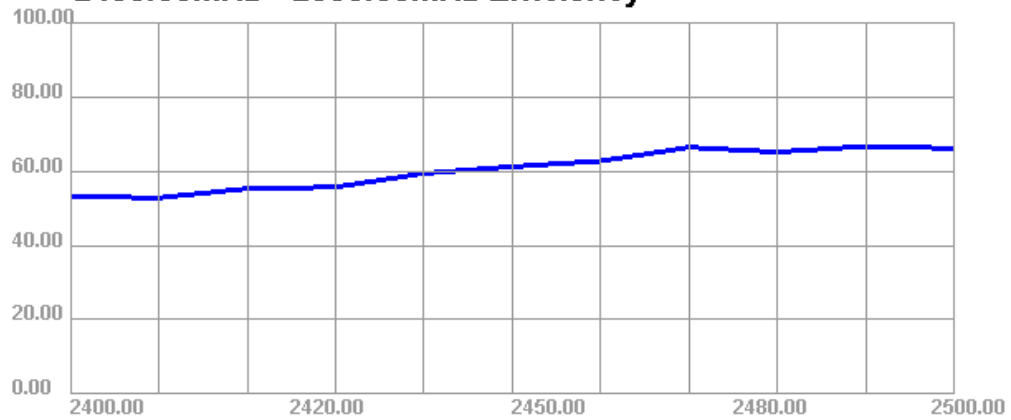
Freq (MHz)	Effi (%)	Gain (dBi)
2400	40.0	-0.45
2410	40.0	-0.44
2420	40.16	-0.27
2430	40.82	-0.22
2440	44.73	0.08
2450	46.97	0.45
2460	49.56	0.83
2470	52.76	1.26
2480	53.75	1.36
2490	51.76	1.16
2500	53.59	1.21

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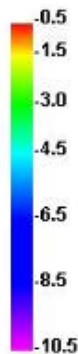
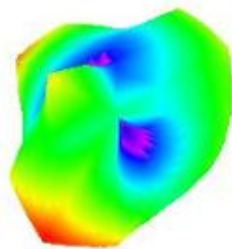
2400.00MHz - 2500.00MHz Gain



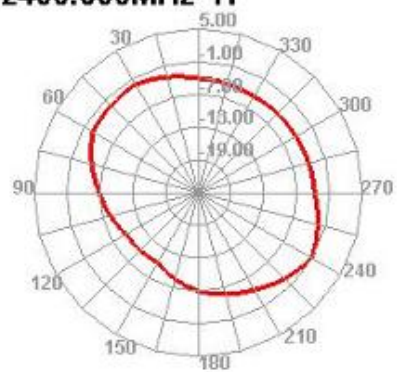
2400.00MHz - 2500.00MHz Efficiency



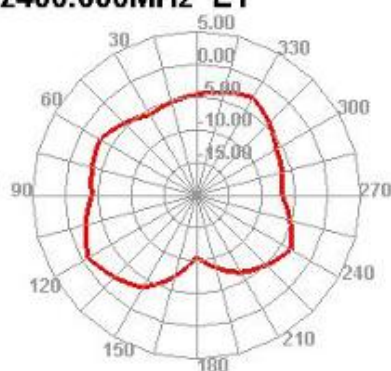
2400.000MHz



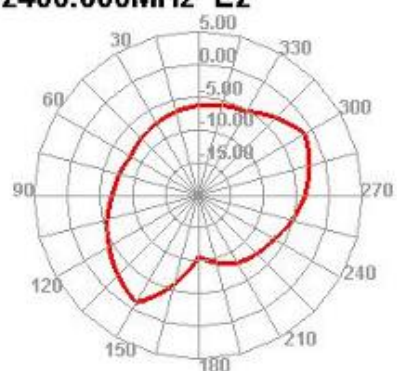
2400.000MHz H



2400.000MHz E1

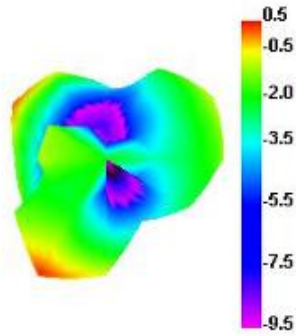


2400.000MHz E2

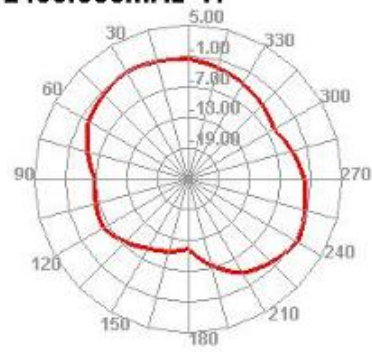


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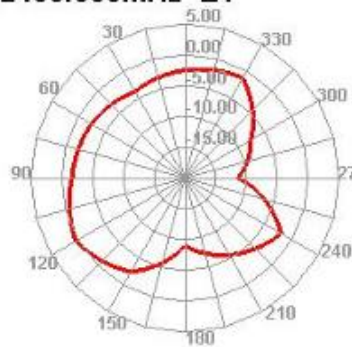
2450.000MHz



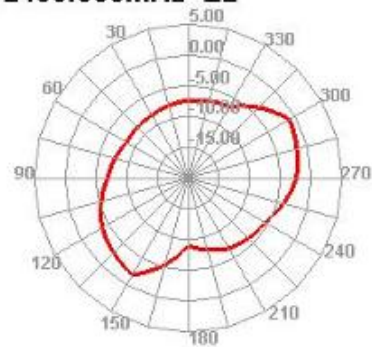
2450.000MHz H



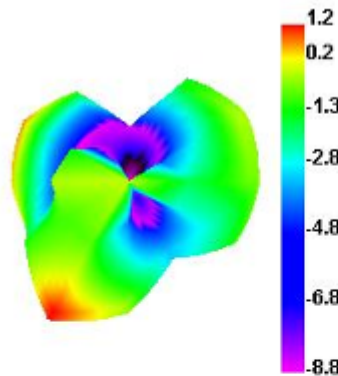
2450.000MHz E1



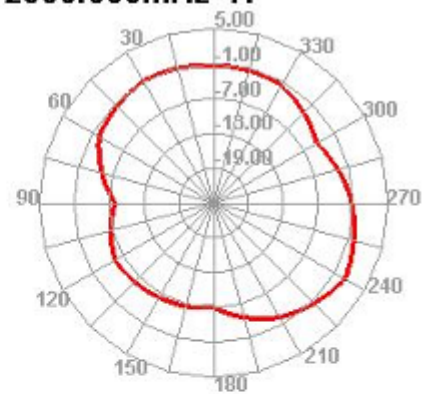
2450.000MHz E2



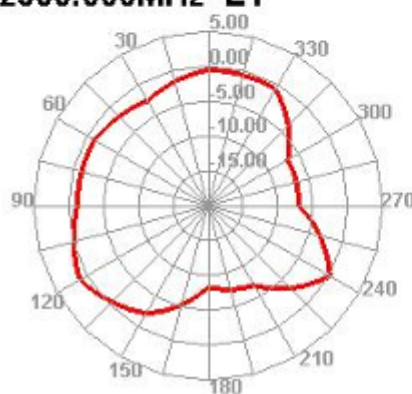
2500.000MHz



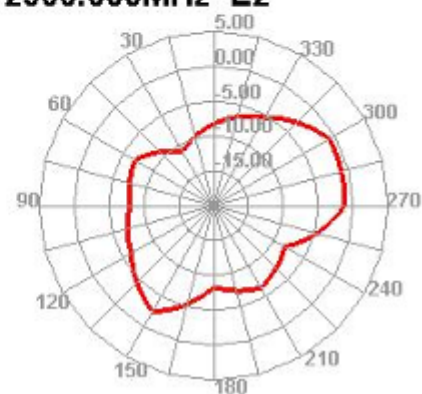
2500.000MHz H



2500.000MHz E1

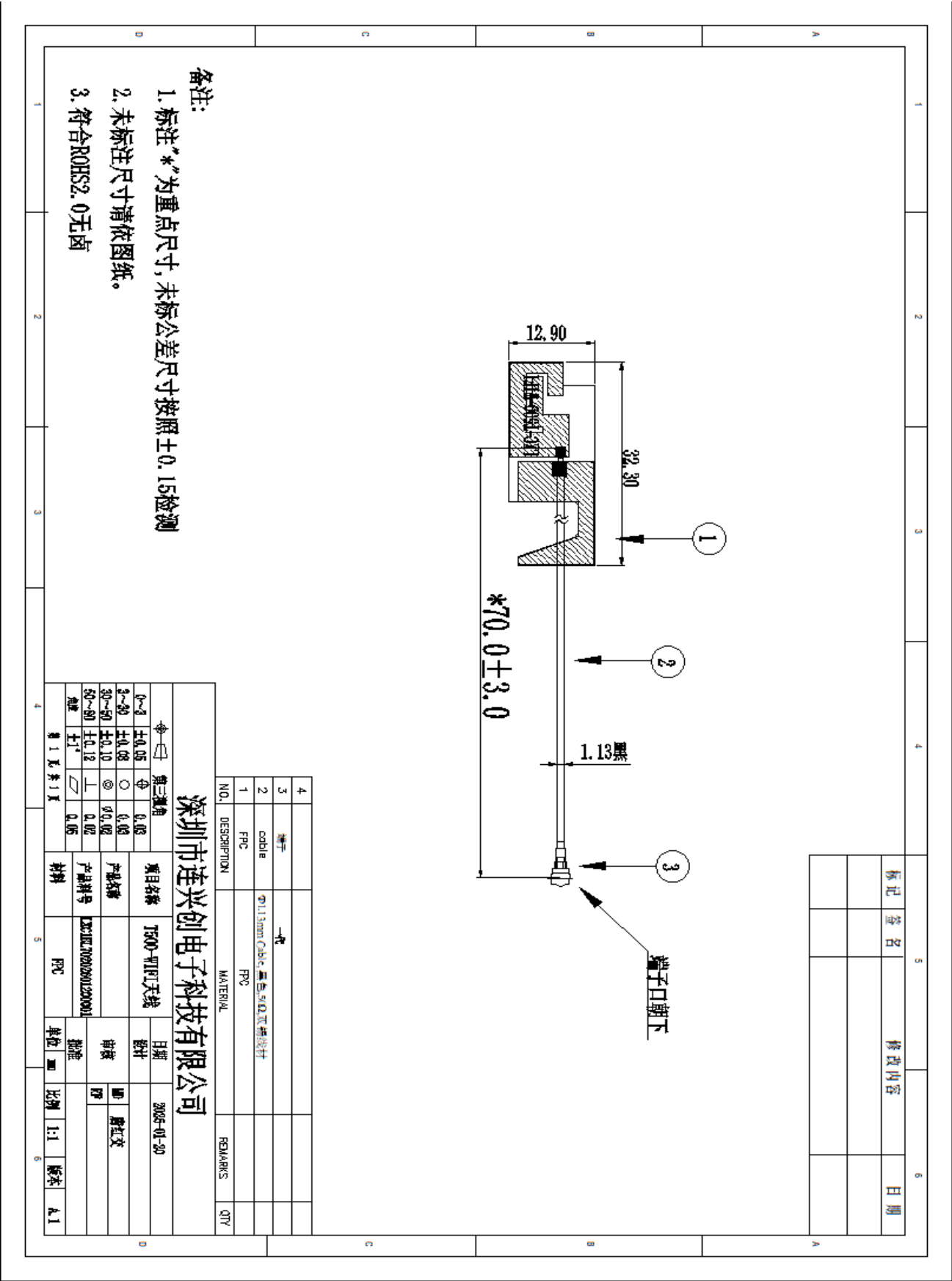


2500.000MHz E2



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6 Mechanical drawing



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整机有源测试数据

WiFi(2.4G/B)	CH	功率(11M)	灵敏度(11M)	WiFi(5.8G/N)	CH	功率(54M)	灵敏度(54M)
	1	16.5			36		
	6	16.6			149		
	11	16.8	-76.3		165		

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7 Reliability tests

7.1 Test content

No	试验项目	试验方法	判定基准
1	盐水喷雾试验	把盐浓度 5%的溶液喷雾 48HR	不能有变色，歪（变形）脱落等的缺点 腐蚀面积不能过大

7.2 Test results

NO	样品数	试验期间	实验结果	备注
1	50	24 小时	OK	技术等级为 9 级 腐蚀<0.4mm
2	50	48 小时	OK	技术等级为 9 级 腐蚀<0.4mm

8 Conclusion

From the above test results, we can know the electrical performance of the antenna is seems good.

Shenzhen Lxc Electronics Technology Co ., Ltd ,look forward to your confirmation,
thank you for your cooperation !

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