

森沛（深圳）有限公司

零件承认书

产品信息	Manufacturer	Shenzhen LXC Electronics Technology Co., Ltd		
	Model	185mm Wifi Antenna for CYWL 6305		
	Material	FPC		
	Host	MGS101-07		
	P/N	928-C185100-L45		
	Description	Cable WiFi antenna, 2.4G+5G, 线长 185mm , 500hm/OD1.13mm, 银锡黑线 , FPC type, 34.2×16.8mm, KCC1B1 代端子, 含 40×21mm 导电布, RoHS		
硬件确认	产品电气性能	确认人/日期		
测试确认	测试可靠性	确认人/日期		
结构确认	结构认定	确认人/日期		
系统确认	系统认定	确认人/日期		
品质确认	产品可靠性/外观	确认人/日期		
此份分发以下部门：		☐品质部 ☐采购部 ☐系统结构部 ☐硬件部 ☐供应商 本样品： ☐限量采购 ☐限定应用机型 ☐部分承认 ☐完全承认 ☐其他		
		签 发 供应商审核 (森沛) 总经理签署		

88Project:		Author:Wang	File Name: 928-C185100-L45
Date: 2025-03-14			
TEST:	Language:	Check: Zhong	
A	English		
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频率范围 Frequency range	WIFI:(2.4/5.8MHz)
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

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Revision History

Date	Revision	Description of Changes
2025-03-14	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

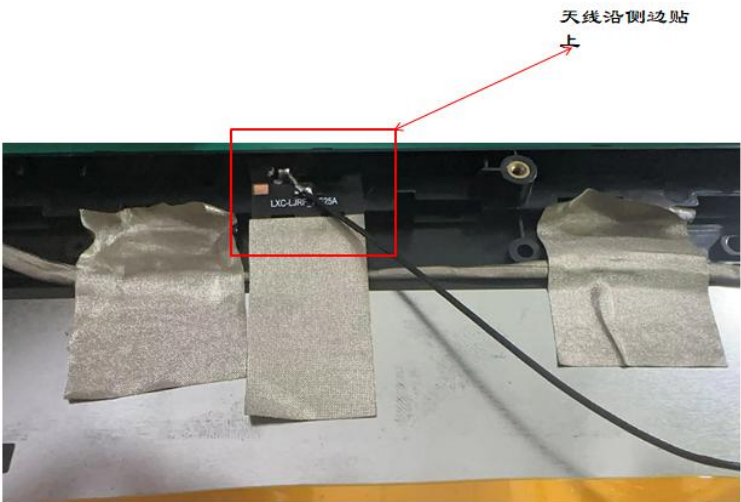
4.1.1 VSWR

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.

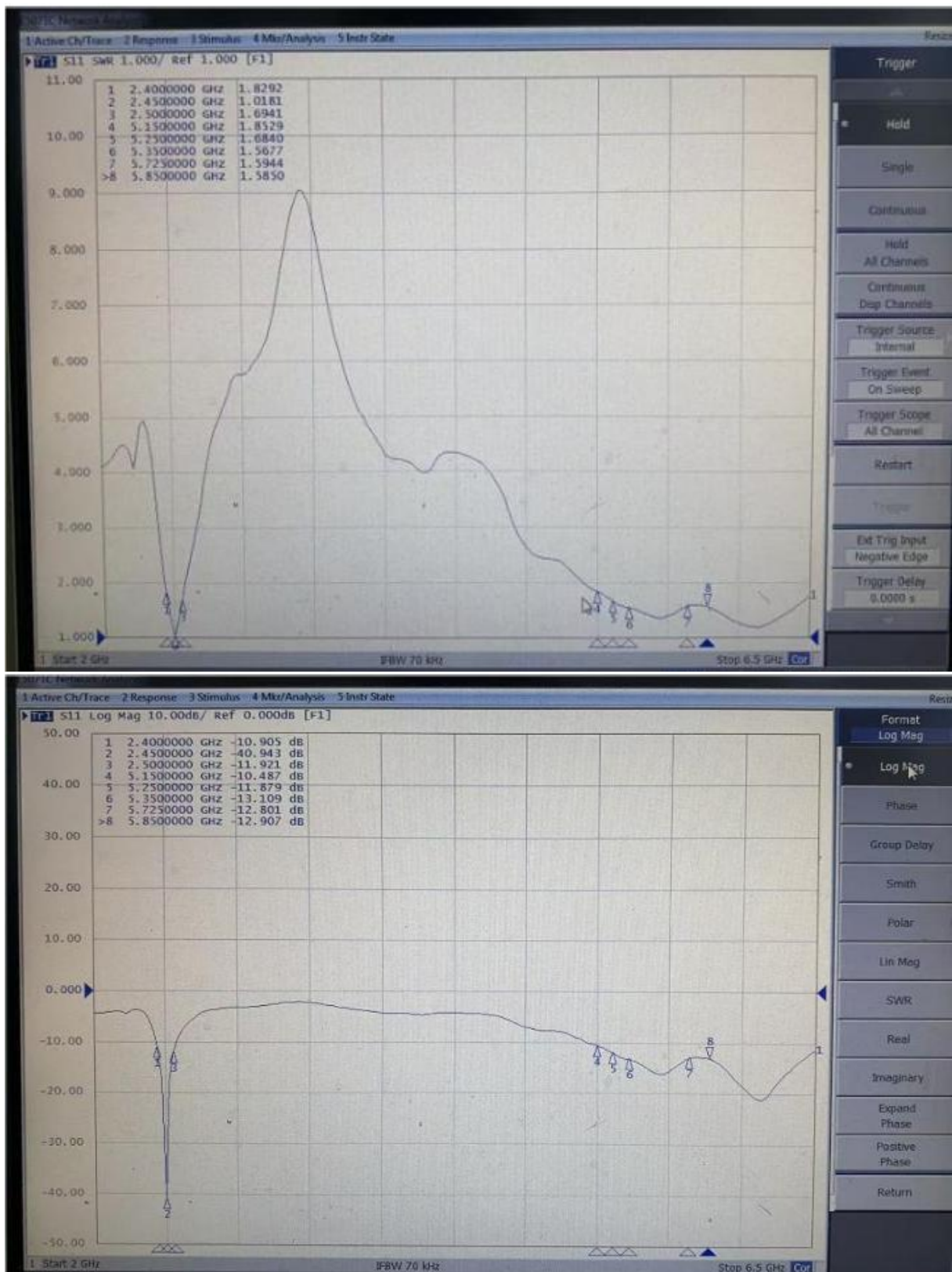
4.1.3 Matching Circuit Description



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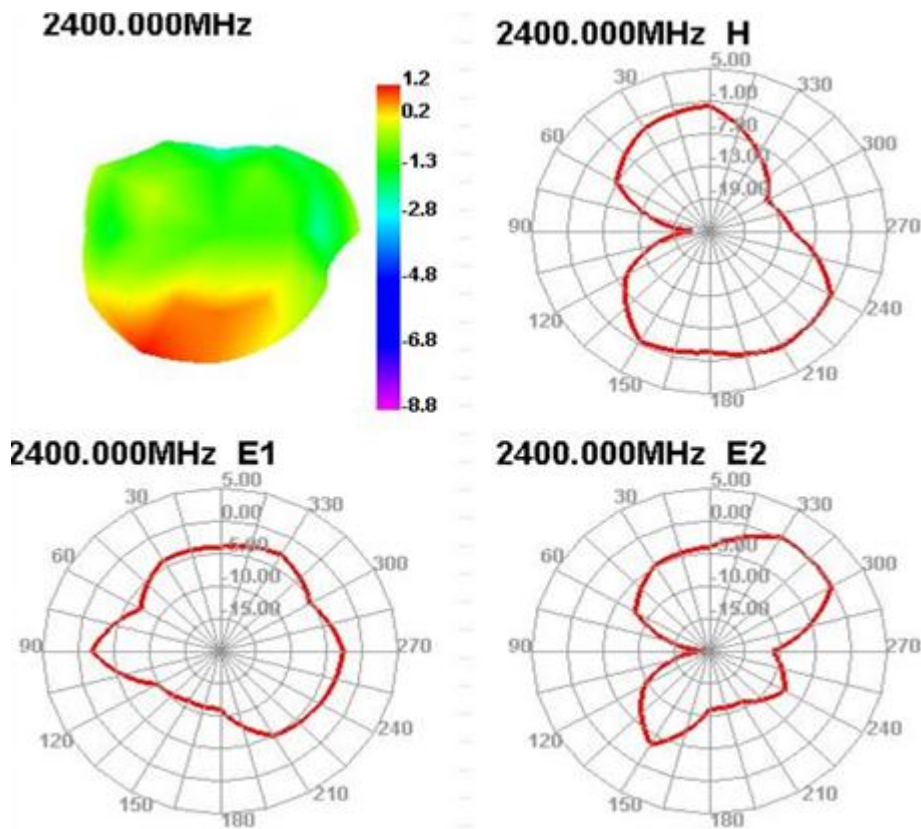
4.2 Measurement Data

4.2.1 Active result (WIFI)



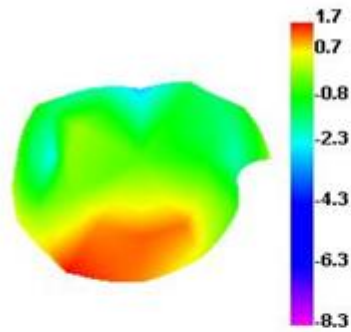
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Freq	Effi	Gain
(MHz)	(%)	(dBi)
2400	40.54	1.15
2410	40.49	1.2
2420	40.62	1.36
2430	40.77	1.39
2440	42.93	1.65
2450	44	1.74
2460	43.91	1.63
2470	44.71	1.69
2480	44.99	1.68
2490	43.82	1.69
2500	44.1	1.53

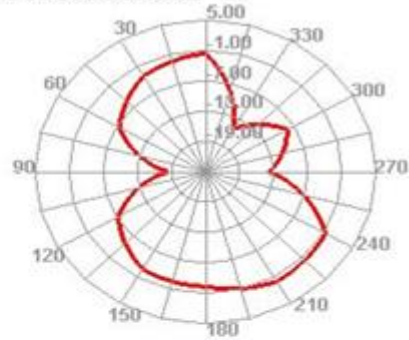


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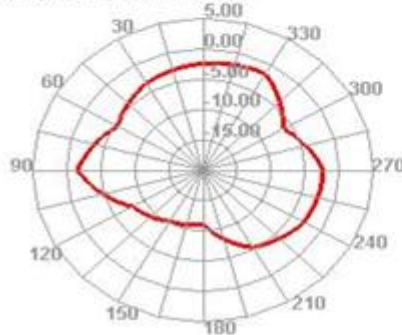
2450.000MHz



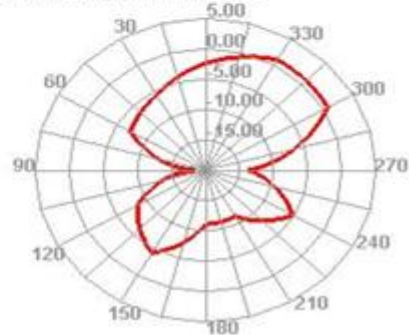
2450.000MHz H



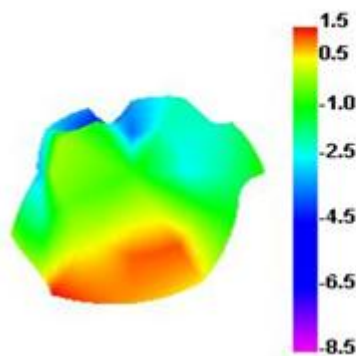
2450.000MHz E1



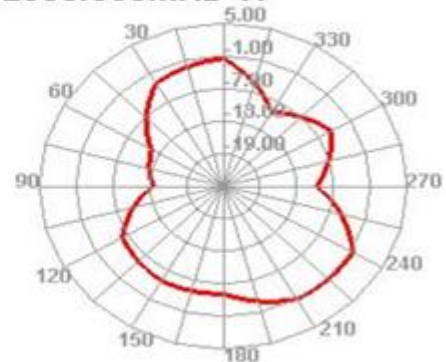
2450.000MHz E2



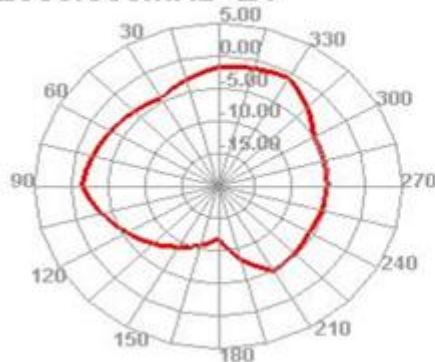
2500.000MHz



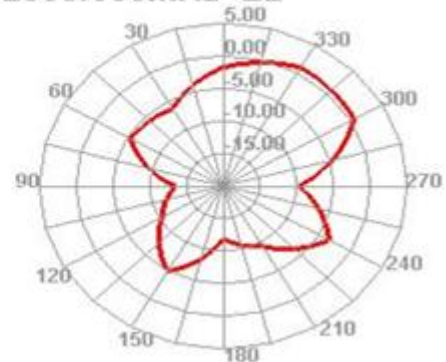
2500.000MHz H



2500.000MHz E1

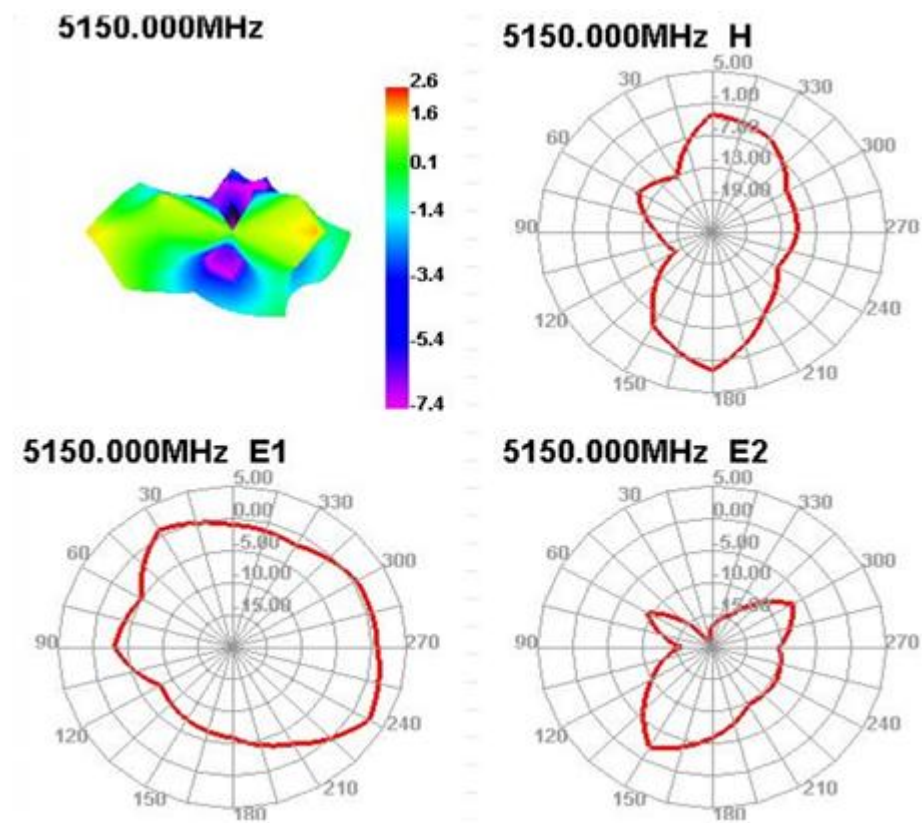


2500.000MHz E2



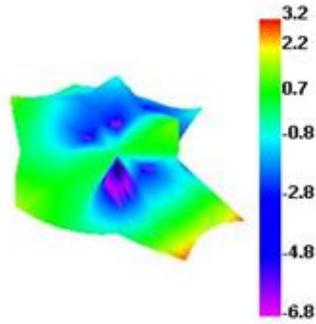
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Freq	Effi	Gain
(MHz)	(%)	(dBi)
5150	42.89	2.58
5350	43.24	1.4
5550	44.53	3.18
5650	44.02	1.5
5850	41.17	1.32

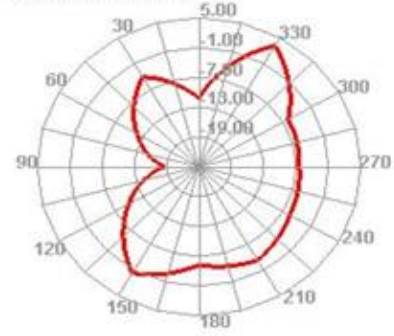


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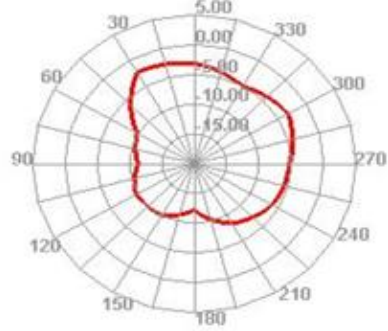
5500.000MHz



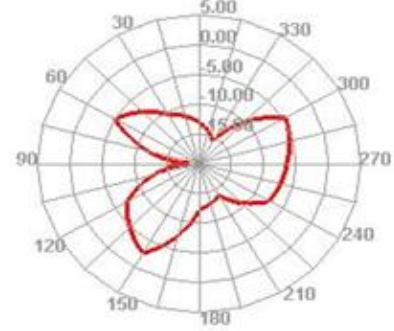
5500.000MHz H



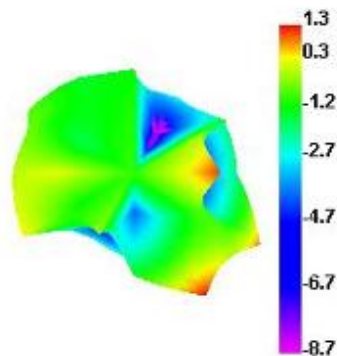
5500.000MHz E1



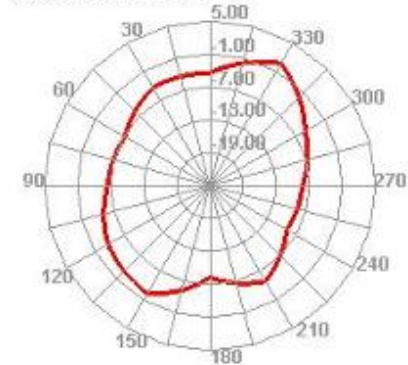
5500.000MHz E2



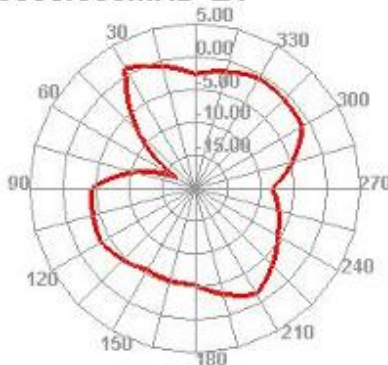
5850.000MHz



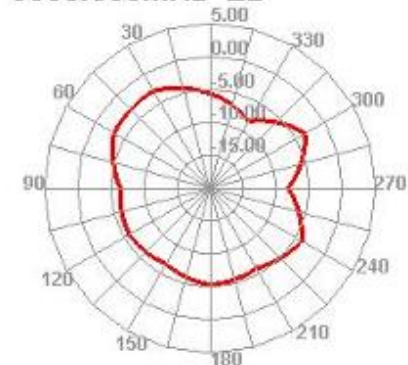
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



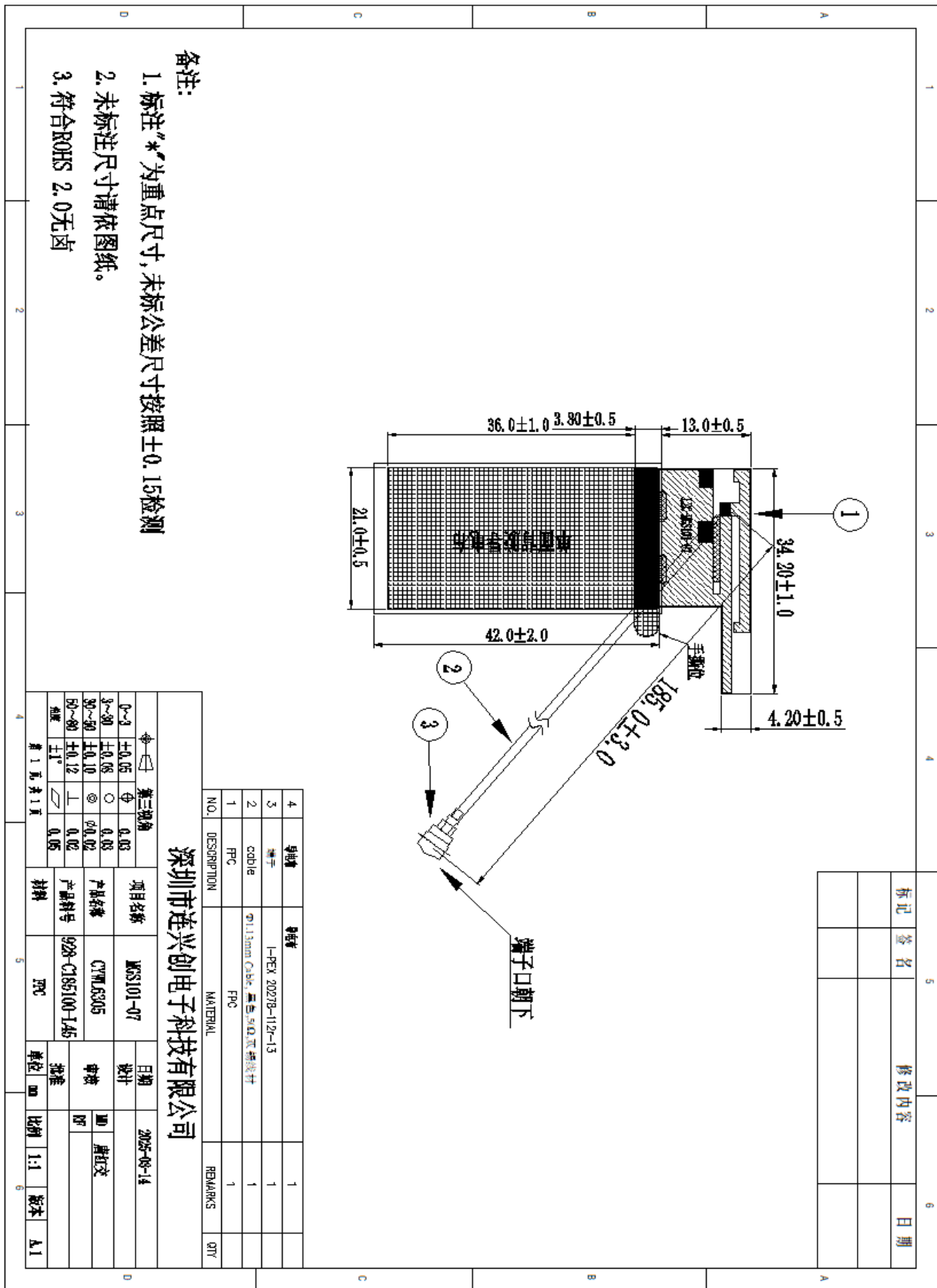
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有源测试数据

Item	Measuremer	Band	Channel	Total
1	TRP	WIFI_B (11M)	1	13.75
2	TRP	WIFI_B (11M)	6	13.4
3	TRP	WIFI_B (11M)	11	13.2
4	TIS(EIRP)	WIFI_B (11M)	11	-74.6
5	TRP	WIFI_G (54M)	1	13.12
6	TRP	WIFI_G (54M)	6	12.67
7	TRP	WIFI_G (54M)	11	12.45
8	TIS(EIRP)	WIFI_G (54M)	11	-70.2
9	TRP	WIFI_N_ISM (65M)	1	12.64
10	TRP	WIFI_N_ISM (65M)	6	13.21
11	TRP	WIFI_N_ISM (65M)	11	13.04
12	TIS(EIRP)	WIFI_N_ISM (65M)	11	-67.46
Item	Measuremer	Band	Channel	Total
1	TRP	WIFI_AC (78M)	36	12.98
2	TRP	WIFI_AC (78M)	100	13.35
3	TRP	WIFI_AC (78M)	165	12.22
3	TRP	WIFI_AC (78M)	165	-64.45

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6 Mechanical drawing



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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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