

☐ New component recognition ☐ Change supplier

I: Basic information of components

Tingfeng component part	
Tingfeng component name	antenna
Tingfeng component specifications	
Component drawing number/version	
Manufacturer's component description	
Manufacturer/Agent	Shenzhen New Link Technology Co.,Ltd

II: Manufacturer provides information

Product drawings	☒ OK ☐ N/A	Material Application	☒ OK ☐ N/A
Electrical characteristics (including testing conditions)	☒ OK ☐ N/A	RoHS	☒ OK ☐ N/A
MSDS (must include material composition and composition information)	☒ OK ☐ N/A	CA65	☐ OK ☐ N/A
Process requirements for use (must include production temperature and humidity)	☒ OK ☐ N/A	REACH	☒ OK ☐ N/A
Packaging method	☒ OK ☐ N/A		
Sample inspection report (must include size inspection)	☐ OK ☐ N/A		
Reliability Test Report	☒ OK ☐ N/A		
Limit color sample	☐ OK ☐ N/A		

III: Tingfeng will sign

department	Inspection items	Confirm results	confirmer
R&D Department	Parameters, functions, and		
	Structure, color, and matching		
	HSF and EMC confirmation		
☐ Temporary/trial production recognition ☐ Limited recognition ☐ Mass production recognition			
notes:			
review: year month day approve: year month day			

1.概述 Overview

此报告主要描述新领科给乐韵瑞机器调试天线的性能。乐韵瑞 WiiM Sub Pro 项目，使用频率范围为, 2.4G/5G/6GWIFI 该机天线为 PIFA 形式，位于机器内部。

This report mainly describes the performance of the antenna tuning by Xinlinko for the Leyunrui machine. The WiiM Amp Ultra project uses a frequency range of 2.4G/5G/6GWIFI The antenna of the machine is in the form of PIFA and is located inside the machine.

2.详细介绍 Detailed introduction

2.1 匹配电路 （匹配未改动） Matching circuit (matching unchanged)

3.调试设置 Debug the settings

发射功率(TX Power)和接收灵敏度(RX Sensitivity)。 TX Power and RX Sensitivity

发射功率和接收灵敏度是使用 CMW500/8960 在微波暗室(6m*3m*3m)里测得的 3D 结果

The transmit power and receive sensitivity are 3D results measured using the CMW500/8960 in a microwave anechoic chamber (6m*3m*3m).

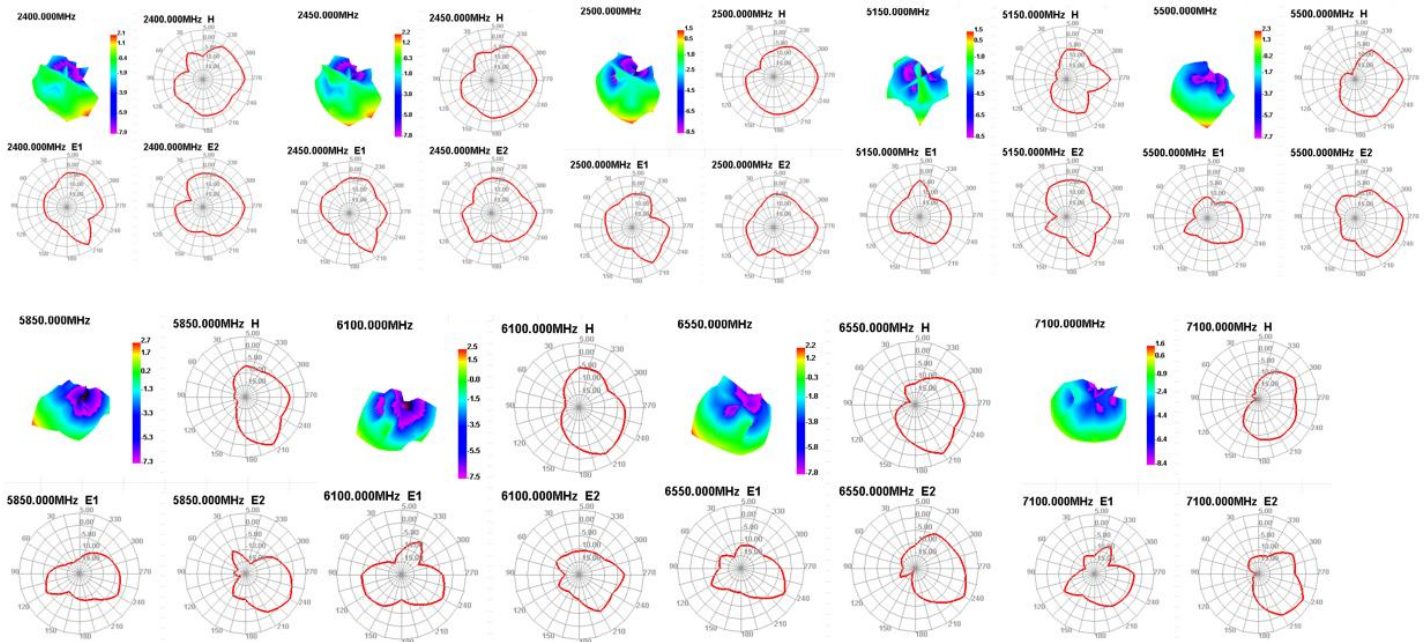
3.1 天线无源数据 Antenna passive data

WiFi 1



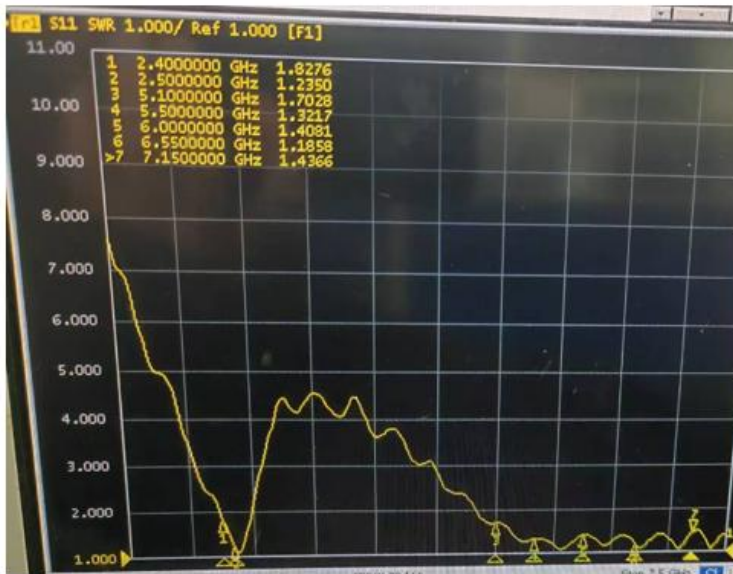
Freq (MHz)	Effi (%)	Gain (dBi)
2400	40.5	2.1
2450	40.6	2.2
2500	41.3	1.5
5150	42.7	1.5
5200	43.3	1.8
5300	42.9	2.1
5400	40.3	2.6
5500	42.2	2.3
5700	41.8	2.4
5850	42.2	2.7
5900	41.4	2.1
6000	42.6	2.4
6100	43.6	2.5
6200	42.4	1.8
6300	44.5	1.9
6400	42.4	1.7
6550	41.3	2.2
6600	41.3	2.1
6700	42.7	1.6
6800	42.6	1.8
6900	44.5	1.9
7000	43.7	1.8
7100	43.5	1.6

project: : WiiM Sub Pro		write: Zhang hai dong	file name: Le yun rui WiiM Sub Pro Antenna specification
Antenna model: WiiM SUB PRO W700-1B-G			
date: 2025.03.04			
version	V1	to examine: liufang	
Mold products			
CONFIDENTIAL Brotone.com			

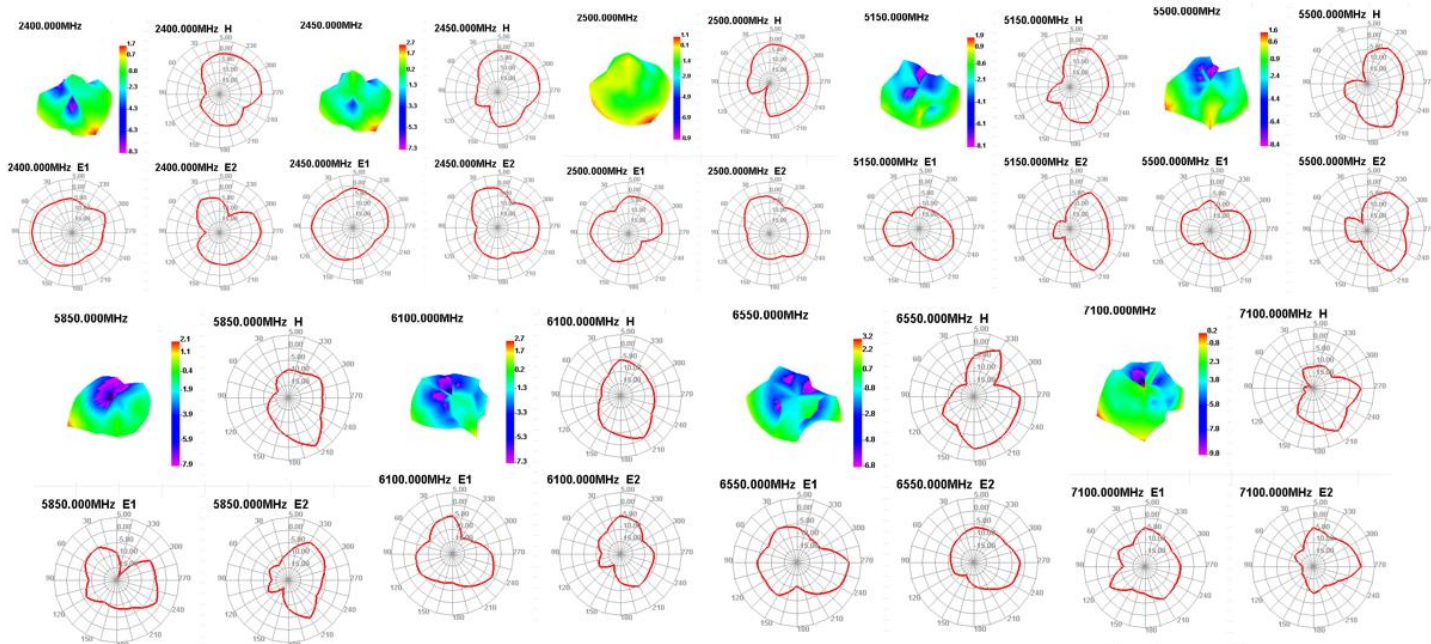


WiFi 2

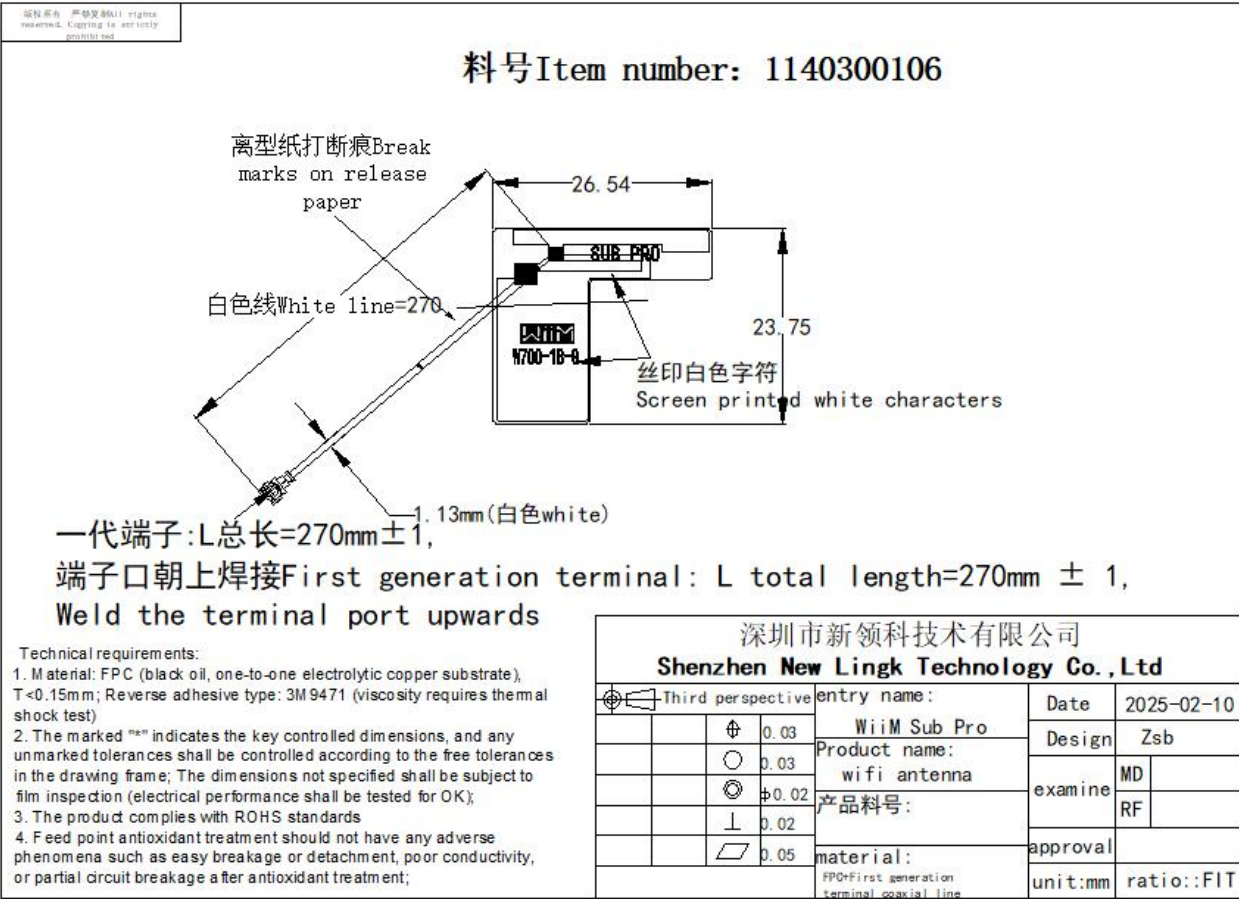
Freq (MHz)	Effi (%)	Gain (dBi)
2400	41.6	1.7
2450	42.5	2.7
2500	41.2	1.1
5150	40.2	1.9
5200	42.8	2.1
5300	42.7	1.8
5400	44.6	1.7
5500	43.5	1.6
5700	41.2	1.8
5850	43.1	2.1
5900	42.4	2.2
6000	43.8	2.3
6100	42.1	2.7
6200	43.2	2.4
6300	41.3	2.6
6400	43.8	2.7
6550	43.2	3.2
6600	42.6	2.6
6700	42.7	1.6
6800	43.5	1.5
6900	43.4	1.4
7000	42.8	1.1
7100	43.1	0.2



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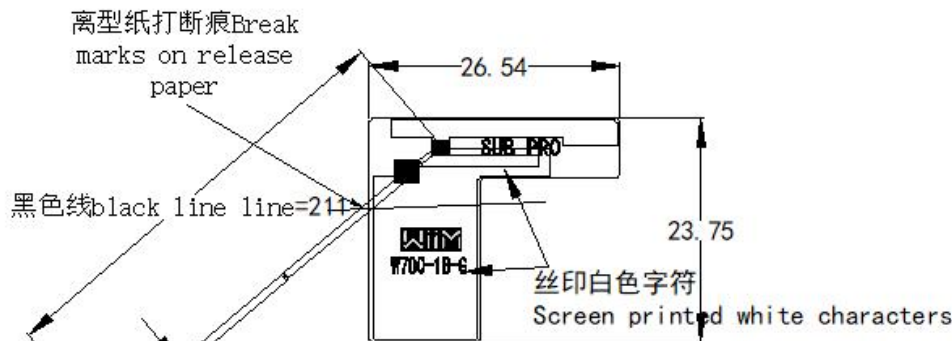


4.结构图 Structural diagram



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料号Item number: 1140300105



一代端子:L总长=211mm±1, 1.13mm(黑色black)

端子口朝上焊接First generation terminal: L total length=211mm ± 1, Weld the terminal port upwards

Technical requirements:

1. Material: FPC (black oil, one-to-one electrolytic copper substrate), T<0.15mm; Reverse adhesive type: 3M9471 (viscosity requires thermal shock test)
2. The marked "*" indicates the key controlled dimensions, and any unmarked tolerances shall be controlled according to the free tolerances in the drawing frame; The dimensions not specified shall be subject to film inspection (electrical performance shall be tested for OK);
3. The product complies with ROHS standards
4. Feed point antioxidant treatment should not have any adverse phenomena such as easy breakage or detachment, poor conductivity, or partial circuit breakage after antioxidant treatment;

深圳市新领科技有限公司

Shenzhen New Lingk Technology Co., Ltd

Third perspective		entry name:	Date	2025-02-10
		WiiM Sub Pro	Design	Zsb
		Product name:	examine	MD
		wifi antenna	RF	
		产品料号:	approval	
		material:	unit:mm	ratio::FIT
		FPC+First generation terminal coaxial line		

5.盐雾检测报告 Structural diagram

产品型号 Product model	WiiM Sub Pro			测试数量 Number of tests	5PCS		
测试标准 Test Standards	GB2423.17			货品素材 Product materials	FPC		
测试项目 Test items	要求标准 Requirement Standards	实际数值 Actual values	判定 decision	测试项目 Test items	要求标准 Requirement Standards	实际数值 Actual values	判定 decision
测试仪器规格 Test Instrument Specifications	KD-60	KD-60	OK	测试时间 Test time	24H	24H	OK

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盐雾测试类型 Types of salt spray tests	NSS 中性 NSS neutral	NSS 中性 NSS neutral	OK	盐雾箱温度 Salt spray box temperature	35℃	35℃	OK
盐水 PH 值 SALINE PH	6.5-7.2	6.8	OK	盐 雾 沉 降 量 (H.80C) Salt spray sedimentation	1-2ml	1.8ml	OK
喷雾方式 Spray method	连续喷雾 Spray continuously	连续喷雾 Spray continuousl y	OK	货品材质 Material of the goods	FPC	FPC	OK
盐水成份 Brine ingredients	5%/NaCL	5%/NaCL	OK	压缩空气节压 力 Compressed air section pressure	1 ± 0.1KG/CM2	1	OK
饱和温度 Saturation temperature	47℃	47℃	OK	试样放置角度 Specimen placement angle	90°	90°	OK
测试观察时间 Test observation time	观察现象 Observe the phenomenon						
4H	无异常 No anomalies						
12H	无异常 No anomalies						
24H	无异常 No anomalies						
判定标准：依国标 5944-86 评级方法判定，9 级以上为合格 Judging criteria: According to the national standard 5944-86 rating method, grade 9 or above is qualified							
最终判定结果 Final Judgment	合格√ Eligible √			不合格 Unqualified			
测试人员	何本源	审核	王爱兵	审批			

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Tester	He Yuanyuan	Audit	Wang Aibing	Approval	
备注：常用的盐雾试验方法有：NSS 中惦盐雾试验，AASS 乙酸盐雾试验，CASS 铜乙酸加速试验。 Note: The commonly used salt spray test methods are: NSS medium salt spray test, AASS acetate spray test, CASS copper acetic acid accelerated test.					

OQC 检验测试报告

OQC inspection and test report

订单号 report		客户料号 Customer part number		检测 项目 Detection items	抽样计划 Sampling plan	AQL	AC	RE	判定 decision
客户型号 Customer model	WiiM Sub Pro			外观 appearance	CR	0.15	0.15	0	1
数量 quantity	出货数量 : Pcs Shipment quantity				MAJ	0.4	0.4	2	3
	抽样数量: Pcs Number of samples				MIN	0.65	0.65	3	4
1. 开路 Open		NIL	10.凹坑/压伤 Pits/crushes		NIL	19.离型纸未切断 The release liner is not cut		NIL	
2. 短路 short circuit		NIL	11.电镀粗脏、金面水印 Plating coarse and dirty, gold watermark		NIL	20.金面氧化 Oxidation of the gold surface		NIL	
3. 线路起翘 The line is warped		NIL	12.金面针孔、缺口 Gold pinholes, notches		NIL	21.冲偏/露铜 Offset / exposed copper		NIL	
4. 线路损坏 Damaged lines		NIL	13.胶层气泡 Glue line bubbles		NIL	22.未冲断 Not broken		NIL	
5. 擦/刮花 Rub/scratch		NIL	14.油墨颜色 Ink color		NIL	23.掉金/甩金 Drop gold/throw gold		NIL	
6. 露铜/镍 Exposed copper/nickel		NIL	15.字符不清 Unclear characters		NIL	24.弯曲/变形 Bending/deformation		NIL	
7. 掉油 Lose oil		NIL	16.垃圾/异物 Garbage/foreign objects		NIL	25.外形缺口 Form factor notch		NIL	
8. 氧化/变色 Oxidation/discoloration		NIL	17 溢胶/流胶 Overflowing/flowing glue		NIL	26.堆胶/缺胶 Glue stacking/lack of		NIL	

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				glue	
9. 表面脏污 The surface is dirty	NIL	18.皱褶 pucker	NIL	27.补强不良 Poor reinforcement	NIL
判定: Decision:	√合格 □不合格 □特采出货 √ qualified □ unqualified □ special picking				

备注：请将本产品储存在低温、低湿（温度 18-28℃，湿度 35%-75%RH）无腐蚀性气体的环境下，建议开包后一周内使用完。

Note: Please store this product in a low temperature, low humidity (temperature 18-28℃, humidity 35%-75%RH) non-corrosive gas environment, it is recommended to use it within one week after opening.

可靠性测试

Reliability testing

项目名称 The name of the project	要 求 requirements	实 测 Measurements
热冲击实验 Thermal shock experiments	288℃*10S'*3 次	288℃*10S'*3 次无分层、起泡 288℃*10S'*3 times without delamination and blistering
抗剥离实验 Anti-peel experiment	≥1.0 kg f/c m²	1.112 kg f/c m²
油墨拉力测试 Ink pull test	3M600 胶带垂直拉起 The 3M600 tape is pulled up vertically	无掉油墨现象 No ink dropping

生产及检测设备清单

List of production and testing equipment

生产设备 Production equipment	检测设备 1 Testing equipment 1	检测设备 2 Testing equipment 2
蚀刻外形机 Etching profile machine	二次元摄影机 Two-dimensional camera	千分尺 micrometer

检验员：
Inspectors:

审核：
Audit:

材料成份宣告表

Material Composition Declaration Form

序号 serial num ber	材料名称 The name of the material	材料型号 Material type	材料供应商 Material Suppliers	环保报告或声明编号 Environmental report or declaration number	报告日期 Report date	备注 remark
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1	基材 substrate	一对一材料 One-to-one materials	蔡伦格蒂 Cailenghetti	SHAEC23001049106	2023/2/15	1-9 页 Pages 1-9
2	背胶 Adhesive backing	3M9471LE	3M	SHAEC2217569205	2023/1/04	1-9 页 Pages 1-9
3	油墨 printing ink	黑色 BLACKINK Black BLACKINK	优立 Youli	CANEC23009939703	2023/09/20	1-11 页 Pages 1-11
4	电金 Electricity gold	检测 detect	乾圣 Qiansheng	A2230512090101002C	2023/10/11	1-4 页 Pages 1-4

出货方式

Shipping method

物料类别 The item category	包装方式 Packing	举例图示 Illustration of an example
FPC	1、PET 塑胶袋包装 1、PET plastic bag packaging	

备注：请将本产品储存在低温、低湿（温度 18-28℃，湿度 35%-75%RH）无腐蚀性气体的环境下，建议开包后一周内使用完,使用中请尽量不要让产品 3M 胶有指纹，以免影响粘着力。

Note: Please store this product in a low temperature, low humidity (temperature 18-28 °C, humidity 35%-75%RH) non-corrosive gas environment, it is recommended to use it within a week after opening the package, please try not to let the product 3M glue have fingerprints during use, so as not to affect the adhesion.

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