

Shenzhen New Link Technology Co.,Ltd

ANTENNA APPROVAL SHEET

Customer: See the

Project : XC01

Part number		Audit	
RF Engineer	See the	Structural Engineer	
address	The fifth floor of the office building of the Fifth Industrial Zone, North District, High-tech Park, Nanshan District, Shenzhen		
Phone	13902948715	site	www.kpantenna.com
Company email address	sales@kpanenna.com	Contact	Li Peng

Customer hardware		Customer projects	
Customer Structure/MD		Customer quality	

This acknowledgment is the debugging of the gold machine data, only for the gold machine is responsible, it is recommended that your company keep a gold machine in our company, and our company will have the same amount as the gold machine materials and software The production machine guarantees the antenna performance.

project: : XC01		write: Zhang hai dong	file name: See the-XC01 antenna specification book
date: 2025.04.01			
version	V1	to examine: liufang	
Mold products			
CONFIDENTIAL Brotone.com			

1.Overview

This report mainly describes the performance of the antenna for the machine. See-XC01 project camera, the use frequency range is, 2.4G/5.8GWIFI the machine antenna is PIFA form, located inside the machine

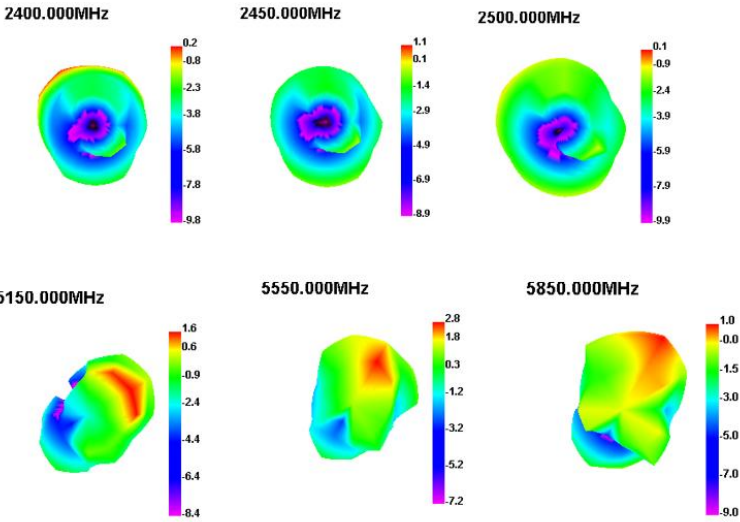
2. Detailed introduction

2.1 Matching circuit (matching unchanged)

3.Debug the settings

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

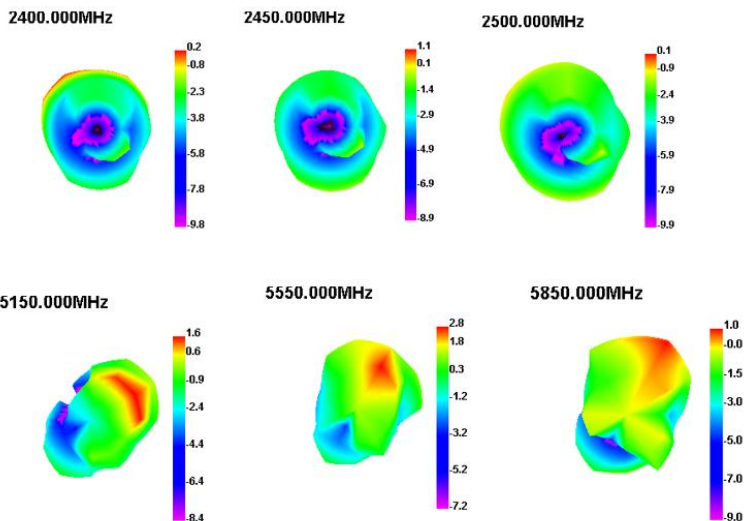
3.1Antenna passive data



Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	42.01	0.18	5150	39.78	1.58
2410	40.48	0.21	5200	39.59	1.93
2420	39.79	0.23	5250	43.12	2.5
2430	40.09	0.34	5300	39.66	2.07
2440	45.67	0.98	5350	40.7	2.23
2450	47.3	1.08	5400	40.25	2.43
2460	46.34	0.91	5450	41.19	2.84
2470	42.39	0.46	5500	45.79	2.38
2480	45.08	0.96	5550	40.54	2.81
2490	46.57	0.64	5600	35.33	2.01
2500	42.02	0.09	5650	32.97	1.4
			5700	40.06	1.81
			5750	35.93	0.74
			5800	34.28	0.33
			5850	42.03	0.99

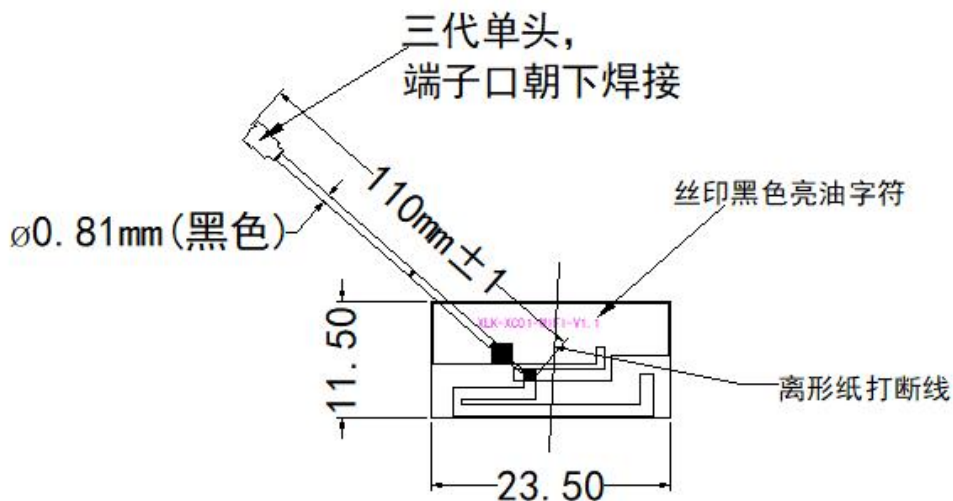
project: : XC01		write: Zhang hai dong	file name: See the-XC01 antenna specification book
date: 2025.04.01			
version	V1	to examine: liufang	
Mold products			
CONFIDENTIAL			
Brotone.com			

Freq (MHz)	Effi (%)	Gain (dBi)	Freq (MHz)	Effi (%)	Gain (dBi)
2400	42.01	0.18	5150	39.78	1.58
2410	40.48	0.21	5200	39.59	1.93
2420	39.79	0.23	5250	43.12	2.5
2430	40.09	0.34	5300	39.66	2.07
2440	45.67	0.98	5350	40.7	2.23
2450	47.3	1.08	5400	40.25	2.43
2460	46.34	0.91	5450	41.19	2.84
2470	42.39	0.46	5500	45.79	2.38
2480	45.08	0.96	5550	40.54	2.81
2490	46.57	0.64	5600	35.33	2.01
2500	42.02	0.09	5650	32.97	1.4
			5700	40.06	1.81
			5750	35.93	0.74
			5800	34.28	0.33
			5850	42.03	0.99



4. Structural diagram

版权所有 严禁复制



技术要求:

- 1、材质: FPC(黑油, 一对半电解铜基材), T<0.15mm; 反面背胶类型: 3M9471
- 2、标“*”号为重点管控尺寸, 未注公差按图框中自由公差管控; 未注尺寸以菲林片检验为准(电性能需测试OK);
- 3、镀点镀金, 不可有镀金后易断裂及脱落, 导电不良, 电路部分断裂等不良现象;
- 4、FPC表面油墨需均匀, 不可有污染物, 擦伤, 黑点, 起皱, 镀锡不良等现象;
- 5、产品符合ROHS标准

深圳市新领科技有限公司

第三视角		项目名称:	XC01	日期:	2024-11-12
Φ	0.03	产品名称:	WIFI天线	设计:	Zsb
○	0.03	产品料号:		审核:	MD
⊙	0.02			RF	
⊥	0.02	材料:	FPC	批准:	
□	0.05	单位:mm	比例:FIT		
第 1 页, 共 1 页					

project: : XC01		write: Zhang hai dong	file name: See the-XC01 antenna specification book
date: 2025.04.01			
version	V1	to examine: liufang	
Mold products			
CONFIDENTIAL			
Brotone.com			

5.Structural diagram

Product model	XC01			Number of tests	5PCS		
Test Standards	GB2423.17			Product materials	FPC		
Test items	Requirement Standards	Actual values	decision	Test items	Requirement Standards	Actual values	decision
Test Instrument Specifications	KD-60	KD-60	OK	Test time	24H	24H	OK
Types of salt spray tests	NSS neutral	NSS neutral	OK	Salt spray box temperature	35℃	35℃	OK
SALINE PH	6.5-7.2	6.8	OK	(H.80C) Salt spray sedimentation	1-2ml	1.8ml	OK
Spray method	Spray continuously	Spray continuousl y	OK	Material of the goods	FPC	FPC	OK
Brine ingredients	5%/NaCL	5%/NaCL	OK	Compressed air section pressure	1 ± 0.1KG/CM2	1	OK
Saturation temperature	47℃	47℃	OK	Specimen placement angle	90°	90°	OK
Test observation time	Observe the phenomenon						
4H	No anomalies						
12H	No anomalies						
24H	No anomalies						
Judging criteria: According to the national standard 5944-86 rating method, grade 9 or above is qualified							
Final Judgment	Eligible √				Unqualified		
Tester	He Yuanyuan	Audit	Wang Aibing	Approval			
Note: The commonly used salt spray test methods are: NSS medium salt spray test, AASS acetate spray test, CASS copper acetic acid accelerated test.							

project: : XC01		write: Zhang hai dong	file name: See the-XC01 antenna specification book
date: 2025.04.01			
version	V1	to examine: liufang	
Mold products			
CONFIDENTIAL Brotone.com			

OQC inspection and test report

report		Customer part number		Detection items	Sampling plan	AQL	AC	RE	decision
Customer model	XC01			appearance	CR	0.15	0.15	0	1
quantity	Shipment quantity			MAJ	0.4	0.4	2	3	qualified
	Number of samples			MIN	0.65	0.65	3	4	
1. Open		NIL	10.Pits/crashes		NIL	19.The release liner is not cut		NIL	
2. short circuit		NIL	11.Plating coarse and dirty, gold watermark		NIL	20.Oxidation of the gold surface		NIL	
3. The line is warped		NIL	12.Gold pinholes, notches		NIL	21.Offset / exposed copper		NIL	
4. Damaged lines		NIL	13.Glue line bubbles		NIL	22.Not broken		NIL	
5. Rub/scratch		NIL	14.Ink color		NIL	23.Drop gold/throw gold		NIL	
6. Exposed copper/nickel		NIL	15.Unclear characters		NIL	24.Bending/deformation		NIL	
7. Lose oil		NIL	16.Garbage/foreign objects		NIL	25.Form factor notch		NIL	
8. Oxidation/discoloration		NIL	17.Overflowing/flowing glue		NIL	26.Glue stacking/lack of glue		NIL	
9. The surface is dirty		NIL	18.pucker		NIL	27.Poor reinforcement		NIL	
Decision:		<div style="text-align: center;"> <input checked="" type="checkbox"/> qualified <input type="checkbox"/> unqualified <input type="checkbox"/> special picking </div>							
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 one week after opening.									
Reliability testing									
The name of the project		requirements			Measurements				
Thermal shock experiments		288°C*10S'*3order			288°C*10S'*3 times without delamination and blistering				
Anti-peel experiment		≥ 1.0 kg f/c m²			1.112 kg f/c m²				
Ink pull test		The 3M600 tape is pulled up vertically			No ink dropping				
List of production and testing equipment									

project: : XC01		write: Zhang hai dong	See the-XC01 antenna specification book
date: 2025.04.01			
version	V1	to examine: liufang	
Mold products			
CONFIDENTIAL Brotone.com			

Production equipment	Testing equipment 1	Testing equipment 2
Etching profile machine	Two-dimensional camera	micrometer

Inspectors:

Audit:

Material Composition Declaration Form

serial number	The name of the material	Material type	Material Suppliers	Environmental report or declaration number	Report date	remark
1	substrate	One-to-one materials	Cailenghetti	SHAEC23001049106	2023/2/15	Pages 1-9
2	Adhesive backing	3M9471LE	3M	SHAEC2217569205	2023/1/04	Pages 1-9
3	printing ink	Black BLACKINK	Youli	CANEC23009939703	2023/09/20	Pages 1-11
4	Electricity gold	detect	Qiansheng	A2230512090101002C	2023/10/11	Pages 1-4

Shipping method

The item category	Packing	Illustration of an example
FPC	1、 PET plastic bag packaging	

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.

project: : XC01		write: Zhang hai dong	file name: See the-XC01 antenna specification book
date: 2025.04.01			
version	V1	to examine: liufang	
Mold products			
CONFIDENTIAL			
Brotone.com			