

Shenzhen Yingjia Chuang electronic technology Co., LTD http://www.szsyjc.com



CUSTOMER NAME							
CUSTOMER P/N							
PART NAME	2.4G/5.8G black PCB Interna	al antenna 1.13 Black line					
	L=60mm (Applicable	model: GM3000,					
	NM3098,N	M3098B)					
P/ N	YJC-6N060-B126						
APPROVAL REV.	АО						
DELIVERY DATE	August 25th, 2023						
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Customer Approved							
Prepared By	Checked By	Approved By					

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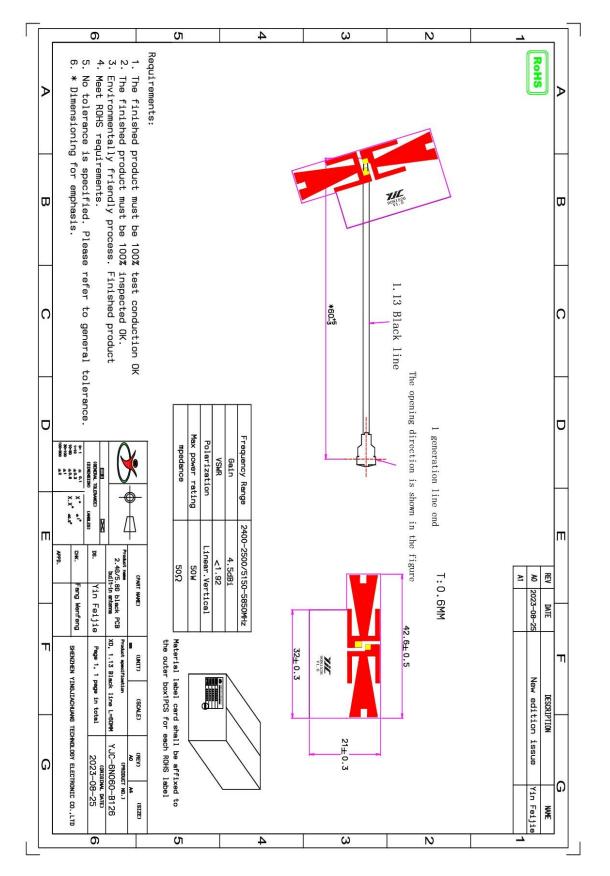


resume:

edition	Content of change and reasons for change	date	release
A/0	Initial release	August 25th, 2023	



Antenna plan:



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Antenna technical parameters and environmental testing:

Electrical technical parameter						
Electrical Specifications		Mechanical Specifications				
Frequency Range	2400-2500/5150-5850M Hz	Cable Color	Black			
VSWR	<1.92	Input connector	XD			
Input Impedance	50 Ω	Cable length	60mm			
Direction	A11	Working Temperature	−20°C~+70°C			
Gain	4.5dBi	Working Humidity	20%~80%			

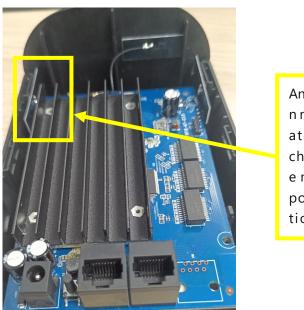
Environmental performance test:

Project	Test condition	Standard
Storage Conditions	<pre>In the absence of specified test temperature, humidity, air pressure is as follows:: 1. Temperature is - 30 °C ~ + 80 °C 2. Relative humidity of 45% to 45% 3. Air pressure is 86 kpa to 106 kpa</pre>	Electrical and mechanical performace is normal
High and low temperature test	Between 70 °C and -20 °C for 5 loops, then 1-2 h under normal conditions, check the appearance quality.	Size should meet the requirements and meet the performance of mechinery and electric.
Constant damp and hot resistance test	<pre>95 + / - 3% relative humidity, temperature test: 40 °C. Lasts 2 h after, try to take out the determination of electrical properties, within 5 min after try 1-2 h under article normal thing, check the appearance quality</pre>	Size should meet the requirements and meet the performance of mechinery and electric.
vibration test	10-55 hz, vibration frequency range of displacement amplitude: 0.35 MM, acceleration amplitude: 50.0 M/S, sweep cycles: 30 times	Electrical and mechanical performace is normal
Fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical performace is normal



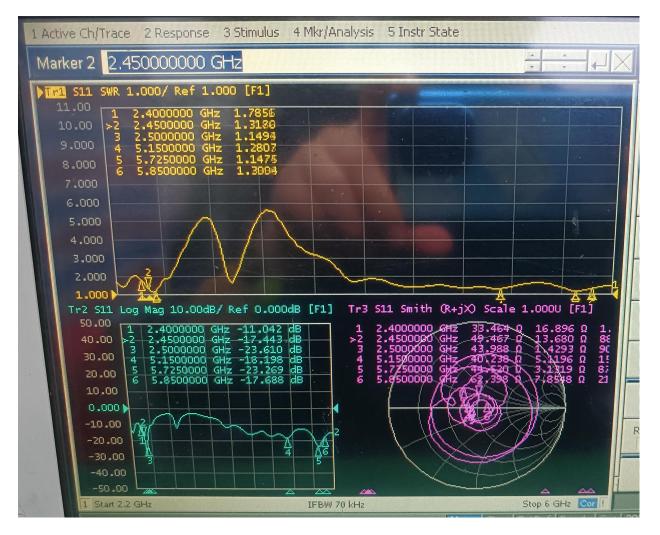
Antenna physical diagram and attached location diagram:





Ante nna atta chm e n t posi tion

Antenna performance test diagram:



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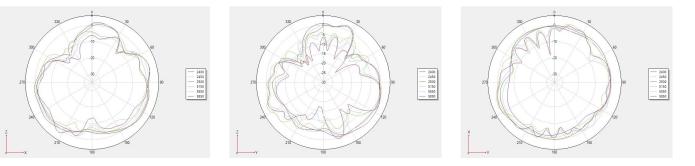
2D and 3D test data (2.4G/5.8G):

Frequency	Efficiency (%)	Gain.(dBi)
2400MHz	63.1	3.12
2410MHz	64.27	3.02
2420MHz	65.16	3.15
2430MHz	65.46	2.88
2440MHz	68.87	2.85
2450MHz	67.14	2.9
2460MHz	69.34	2.91
2470MHz	70.47	3.06
2480MHz	69.5	3.19
2490MHz	71.94	3.28
2500MHz	65.46	3.57
5150MHz	63.1	2.82
5250MHz	62.66	4.2
5350MHz	62.52	3.29
5450MHz	59.57	3.44
5550MHz	62.09	3.42
5650MHz	59.43	3.36
5750MHz	60.53	3.57
5850MHz	59.16	3.85

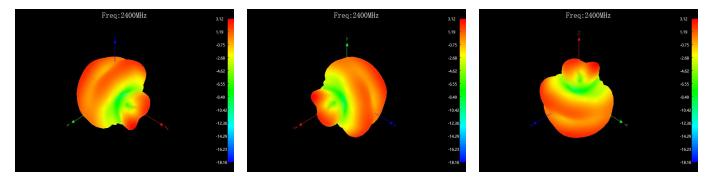
Phi 0 2D:

Phi 90 2D

Theta 90 2D

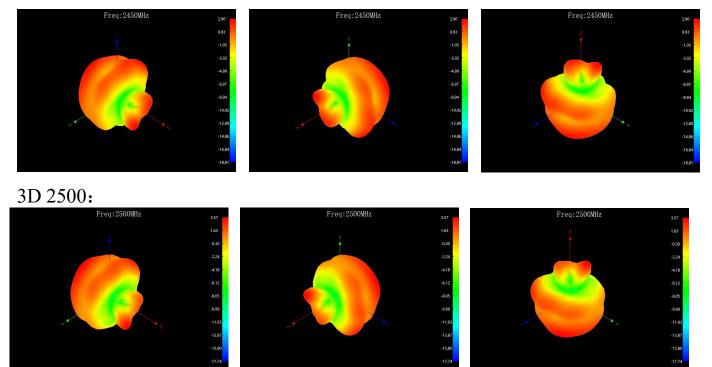


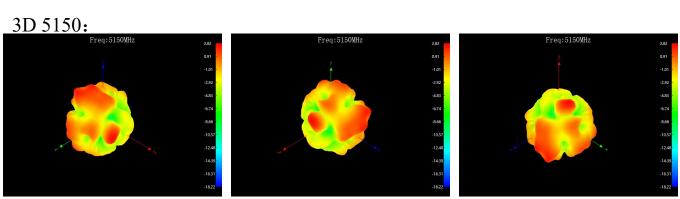
3D 2400:





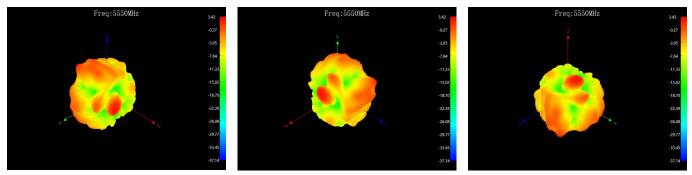
3D 2450:



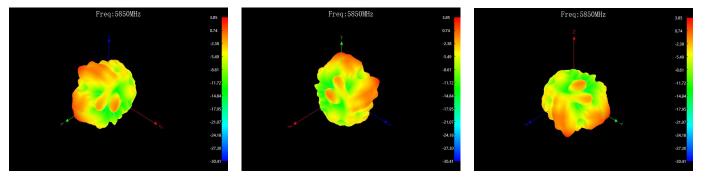




3D 5550:



3D 5850:





Product Type 1.13 Wire								
Structure Drawing								
Structure Characteristics								
Structure	ltem			Standard	Value			
Material			Silver plated copper wire					
lan an Can duatan	(mm/Composition(No./mm)		7/0.08±0.005					
Inner Conductor	Nom.Dia(mm)	Φ0.24±0.01						
	Material		FEP					
Insulation	Nom.Dia(mm)		Ф0.7±0.03					
	Material		Tinned cop	per				
	From		Weaving					
Outer Conductor	Shielding rate		≧90%					
	Nom.Dia(mm)		Φ0.92±0.03					
	Material		FEP					
Jacket	Nom.Dia(mm)		Φ1.13±0.05					
电气性能 Electrical Char	acteristics							
Item	Standard Value		ltem	Frequency	Standard Value			
Impedance (Ω)	50±3			1GHz	≤2.23			
Capacitance(pF/m)	98			2GHz	≤3.15			
Tensile strengthkgf/mm ²	1.76	Atte	nuation@20	3GHz	≤3.96			
VSWR	≤1.40@0-6GHz		°C	4GHz	≤4.6			
Dielectric Strength (A.C V/1min)	1000	(0	IB/100m)	5GHz	≤5.15			
(MHz) Max.oper. frequency	6000			6GHz	≤5.7			
Dependability								
Min.Bending Radius/Single			mm		4			
Min.Bending Radius/Repeated			mm		8			
Operating Temperature			°C	-2	0~+80			
Packing								
Packing Mode		1(000 (m/disc)Reel				
Trips for Use								
Storage Environment	Temperature: below 30)℃, hum	nidity: 20-659	%				
Teflon Shrink	Insulation shrinkage ≦	≦0.2mm	; Sheath shri	inkage ≦0.3m	ım			
Processing temperature	Under the condition of 250° C ~ 260° C, it can withstand for a short time; Thermal decomposition occurs above 300° C							
The best save cycle	After 2 months, the effect of tin becomes worse after 2 months, but the soon as possible after peeling in the high temperature and high humidity environment in summer							



Material RoHS conformity declaration form											
production en (RoHS directi About compone	gineering are a ive 2011/65 / ents used raw m	delivery to your company accord with RoHS environmer EU) materials, packaging mater is as follows:	ntal req	uirements of	the rest	rictions	on the us	e of haza	rdous su	bstances	directive
Component Ma	Material	Material	Test	TIDI			Content of harmful substances (ppm)				PASS?
	Composition	ICP report #	Org.	Test Date -	Cd	Pb	Hg	Cr 6+	PBB	PBDE	PASS
PCB	РСВ	CANEC2221844502	SGS	22/10/20	ND	12	ND	ND	ND	ND	PASS
Wire rod	Coaxial cable	CANEC2301851703	SGS	23/02/23	ND	ND	ND	ND	ND	ND	PASS
Eco-friendly tin wire	Eco-friendly tin wire	SHAEC23006357502	SGS	23/05/23	ND	43	ND	ND	ND	ND	PASS
	Phosphor bronze	CANEC2301145810	SGS	23/02/08	ND	5	ND	ND	ND	ND	PASS
terminal	Gold coating	A2230400553101001E	CTI	23/08/12	ND	ND	ND	ND	ND	ND	PASS
	Rubber core	A2230035037101002E	SGS	23/02/06	ND	ND	ND	ND	ND	ND	PASS