



Shenzhen Yingjia Chuang electronic technology Co., LTD

<http://www.szsyjc.com>

APPROVAL SHEET

CUSTOMER NAME	ShenzhenJichenTechnologyCo.,Ltd.	
CUSTOMER P/N		
PART NAME	2.4G metal built-in antenna	
P/ N	YJC-6N000-B446	
APPROVAL REV.	A0	
DELIVERY DATE	July 13th, 2023	
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Customer Approved		
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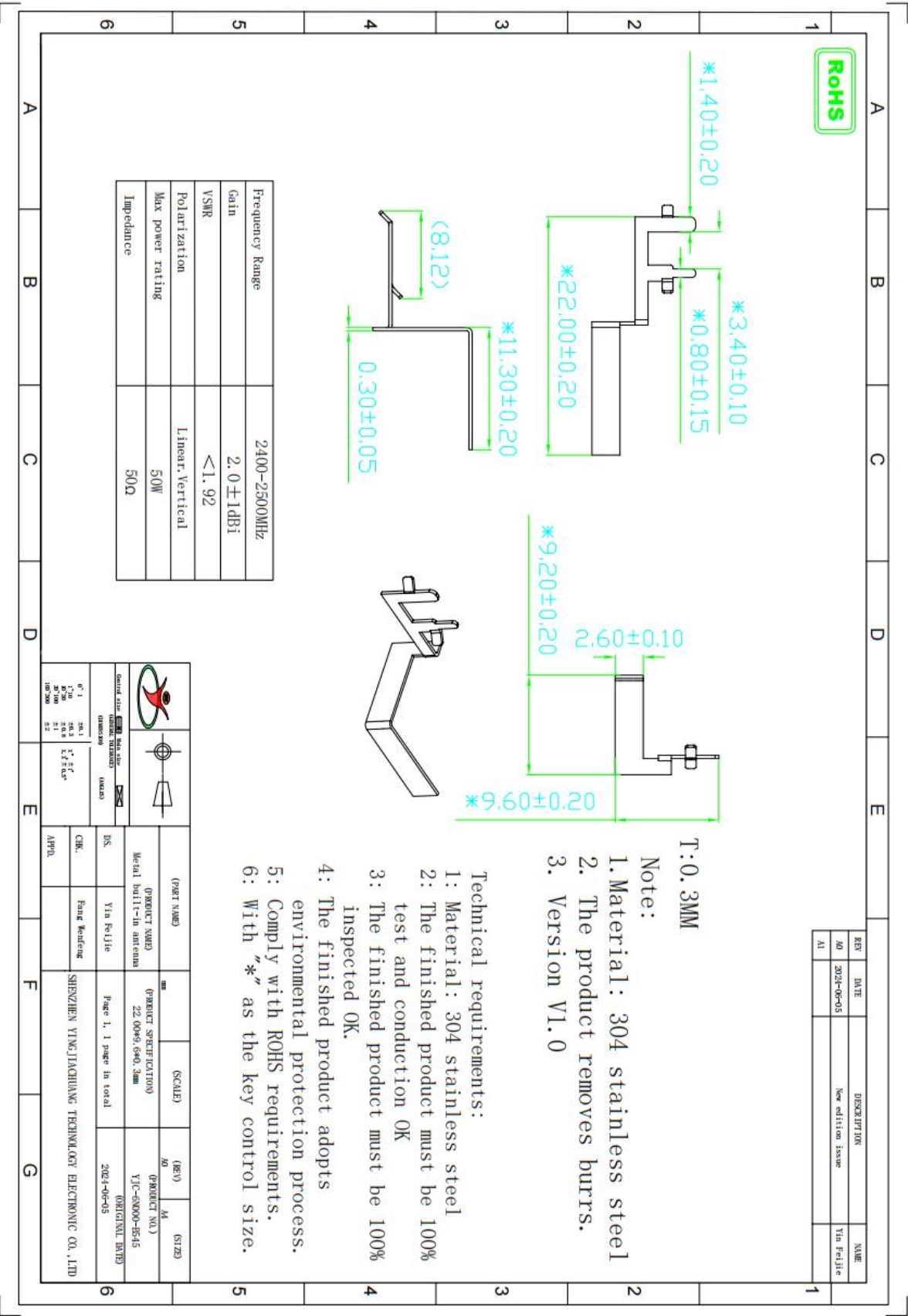


resume:

Version	Changes and reasons	date	publish
A0	Initial release	July 13th, 2023	



Product plan:





Antenna technical parameters and environmental testing:

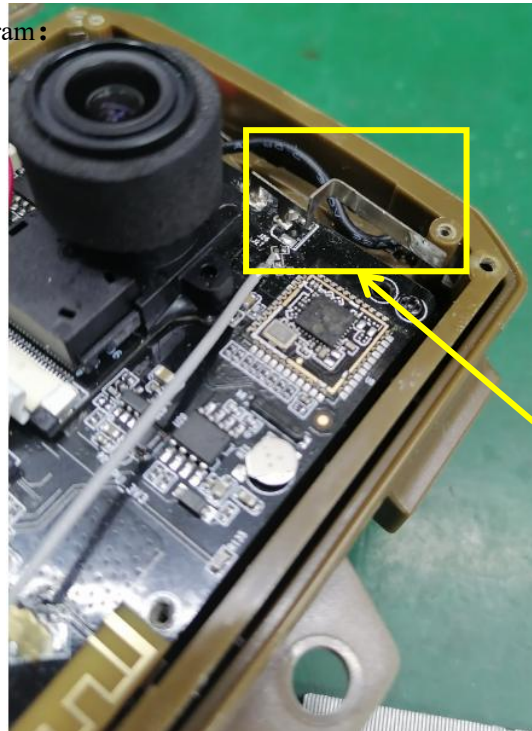
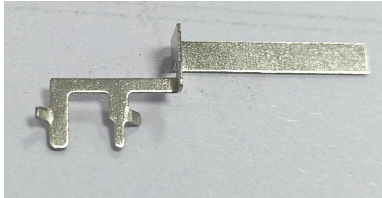
Electrical technical parameter			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500MHz	Wire material	304 stainless steel
VSWR	<1.92	Input connector	OP
Input Impedance	50 Ω	Working Temperature	-20℃~+70℃
Direction	All	Working Humidity	20~80%
Gain	3.0±1dBi		

Environmental performance test:

Project	Test condition	Standard
Storage Conditions	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	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 mechnery and electric.
Constant damp and hot resistance test	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	Size should meet the requirements and meet the performance of mechnery 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:



Antenna
attachment
position figure

Antenna performance test diagram:

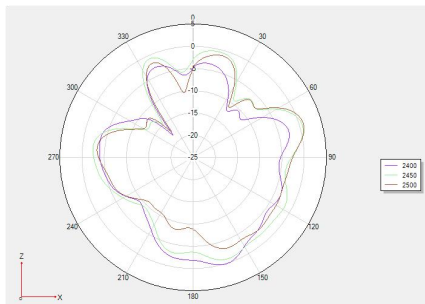




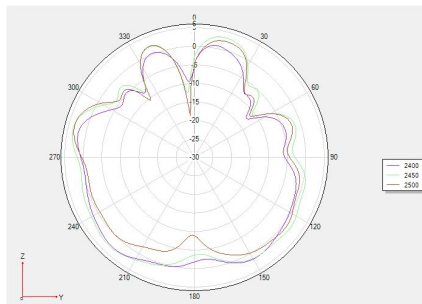
2D, 3D(2.4G) test data:

Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400MHz	60.26	3.14
2410MHz	60.81	3.06
2420MHz	61.81	3.22
2430MHz	67.26	3.68
2440MHz	66.93	3.69
2450MHz	68.72	3.82
2460MHz	67.83	3.62
2470MHz	63.11	3.34
2480MHz	67.11	3.75
2490MHz	62.46	3.24
2500MHz	69.26	3.63

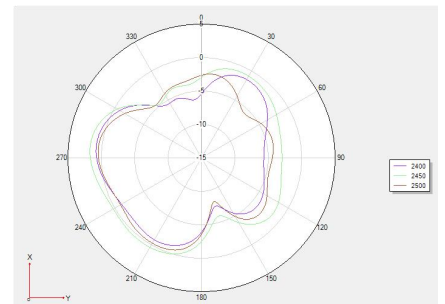
Phi 0 2D:



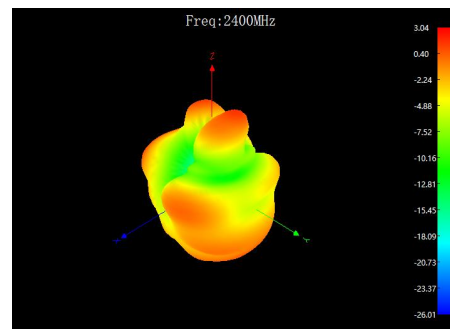
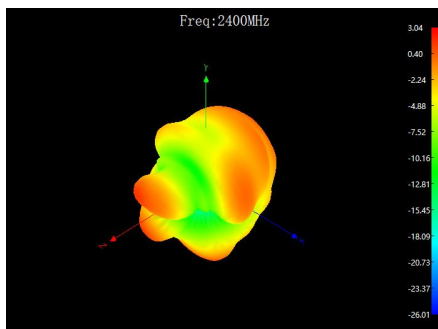
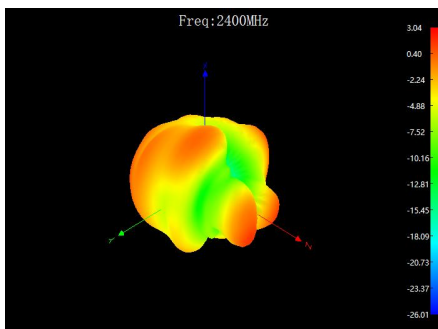
Phi 90 2D



Theta 90 2D

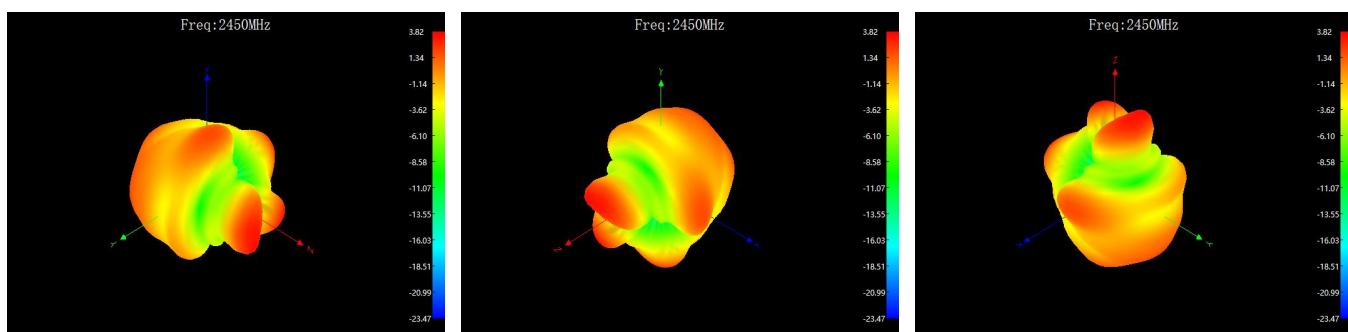


3D 2400:

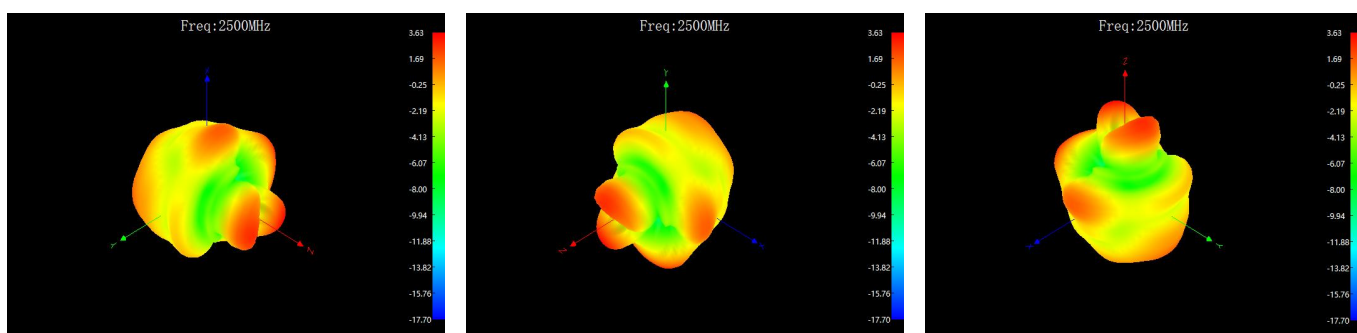




3D 2450:



3D 2500:





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Material RoHS conformity declaration form

This is to certify that the delivery to your company's components, raw materials, auxiliary materials used and the additives in the production engineering are accord with RoHS environmental requirements of the restrictions on the use of hazardous substances directive (RoHS directive 2011/65 / EU)

About components used raw materials, packaging materials, auxiliary materials and additives used in the production process such as composition of the report is as follows:

Component /Part Name	Material Composition	ICP report #	Test Org.	Test Date	Content of harmful substances (ppm)						PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Copper part	304 stainless steel	A2230142930101003	SGS	23/04/06	ND	ND	ND	ND	ND	ND	PASS