



# APPROVAL SHEET

CUSTOMER NAME	HuayiVideo	
CUSTOMER P/N		
PART NAME	2.4G built-in copper antenna	
P/ N	YJC-6N000-B346	
APPROVAL REV.	A0	
DELIVERY DATE	June 19, 2023	
PREPARED BY	Yin Feijie	
CHECKED BY	Fang Wenfeng	
APPROVED BY		
Customer Approved		
Approved By	Checked By	Prepared By

Address: Building C, Hongyu Guangming Valley, No. 11, Youma Gang Road, Ma Tian Street, Guangming District, Shenzhen

Dongguan Branch: Yingjiachuang Industrial Park, No. 2 Yinhe 3rd Road, Shishuikou, Qiaotou Town, Dongguan City

Hangzhou Office: 212, Building B, Dahua Jianghong International Innovation Park, 369 Internet of Things Street, Binjiang District, Hangzhou

Mianyang Office: No. 4F-34 Wanxiang High-tech International, No. 35 Mianxing East Road, Mianyang High-tech Zone, Sichuan Province

Tel: 0755-27810060 Fax: 0755-27810057 Website: <http://www.szsyzc.com>



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SHENZHEN YINGJIACHUANG TECHNOLOGY ELECTRONIC CO. LTD

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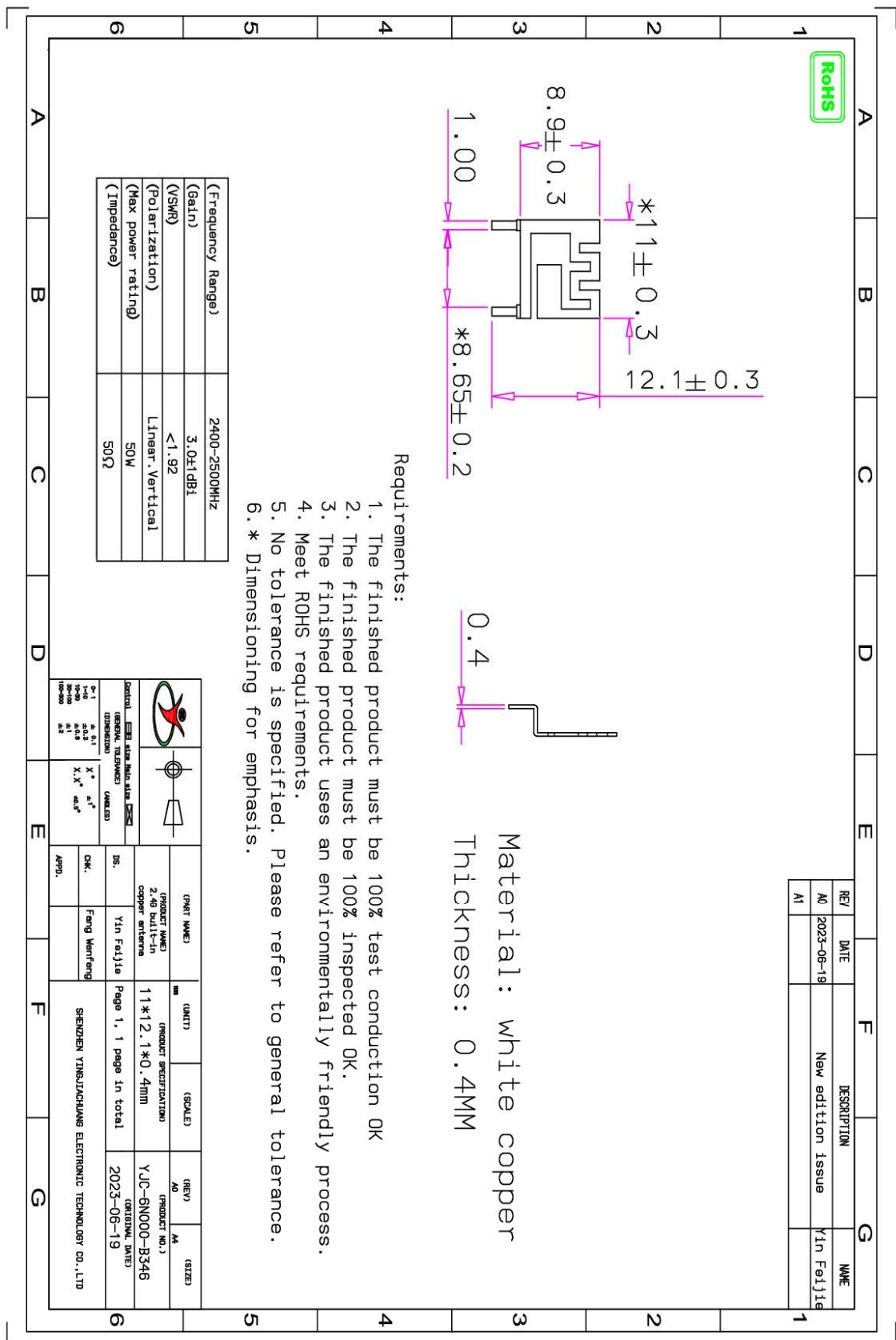
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## resume:

Version	Change contents and reasons	Date	Issue
A0	NEW	June 19, 2023	



## Product floor plan:





Antenna technical parameters and environmental testing:

## Electrical parameters of electrical apparatus

Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500MHz	Wire material	
VSWR	< 1.92 (Test in the casing)	Input connector	
Input Impedance	50 Ω	Working Temperature	-20°C~+70°C
Direction	All	Working Humidity	20~80%
Gain	2.77dBi	Mechanical Specifications	

Environmental performance test::

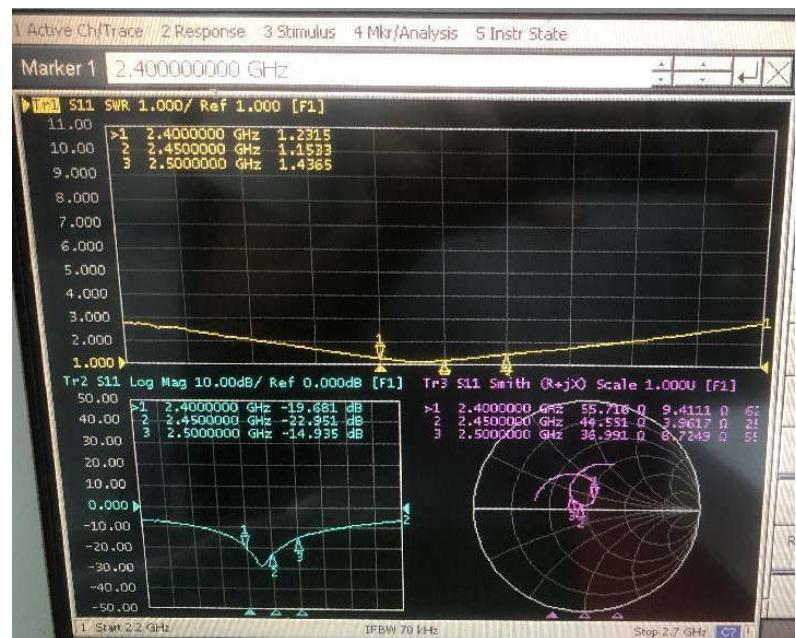
project	test condition	standard
Storage Conditions	In the absence of specified test temperature, humidity, air pressure is as follows: 1. Temperature is - 20 °C ~ + 70 °C 2. Relative humidity of 45% to 85% 3. Air pressure is 86 kpa to 106 kpa	Electrical and mechanical properties is normal
high and low 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 should satisfy the content with the electrical and mechanical properties
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 should satisfy the content with the electrical and mechanical properties
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 properties is normal
fall down test	1 m high altitude in accordance with the perpendicular axis free drop 3 times	Electrical and mechanical properties is normal



## Antenna drawing



## Antenna performance test chart:



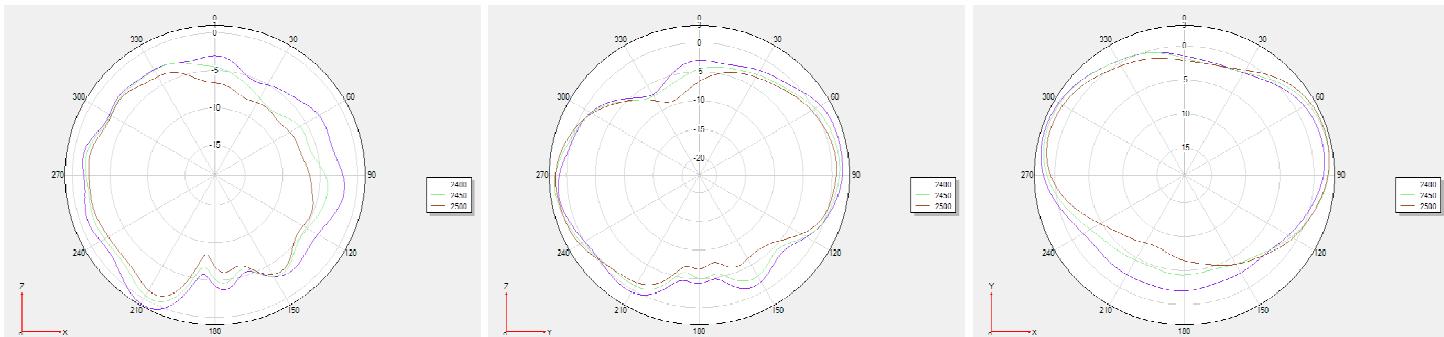
## 2D. 3D test data (2.4G)

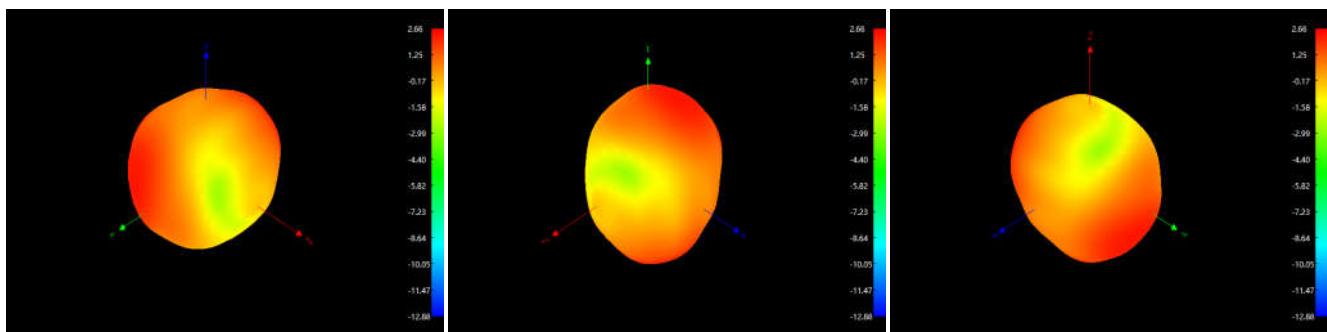
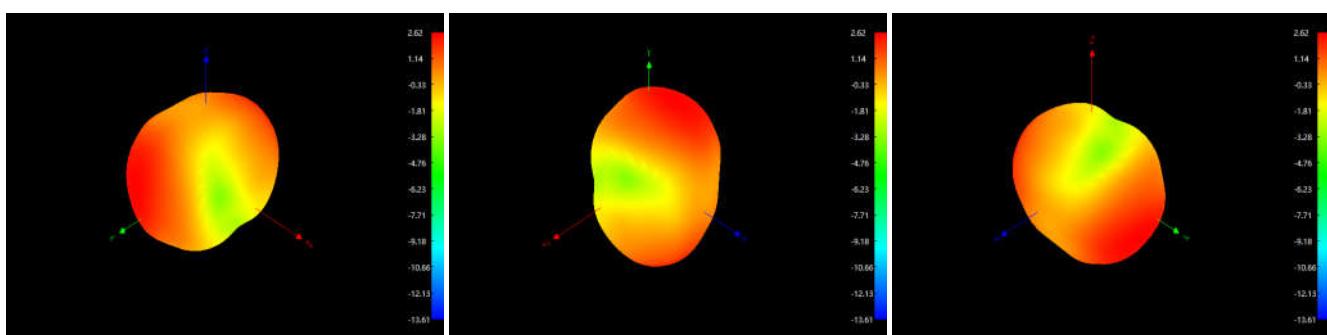
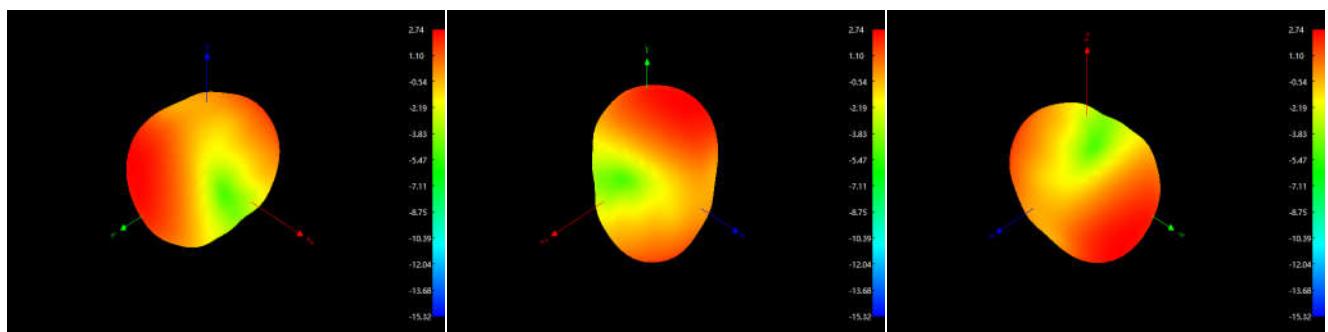
Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400MHz	57.94	2.66
2410MHz	57.54	2.68
2420MHz	57.41	2.4
2430MHz	56.62	2.58
2440MHz	55.85	2.46
2450MHz	55.21	2.62
2460MHz	54.33	2.57
2470MHz	53.33	2.68
2480MHz	51.52	2.77
2490MHz	50.58	2.77
2500MHz	48.75	2.74

Phi 0 2D 图

Phi 90 2D

Theta 90 2D



**3D 2400****3D 2450****3D 2500**



### 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 <sup>6+</sup>	PBB	PBDE	
calcite	calcite	CANEC2120019603	SGS	21/11/02	ND	33	ND	ND	ND	ND	PASS