



Shenzhen Yingjia Chuang electronic technology Co., LTD

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APPROVAL SHEET

CUSTOMER NAME		
CUSTOMER P/N		
PART NAME	onboard antenna	
P/ N		
APPROVAL REV.	A0	
DELIVERY DATE	July 26, 2024	
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catalogue

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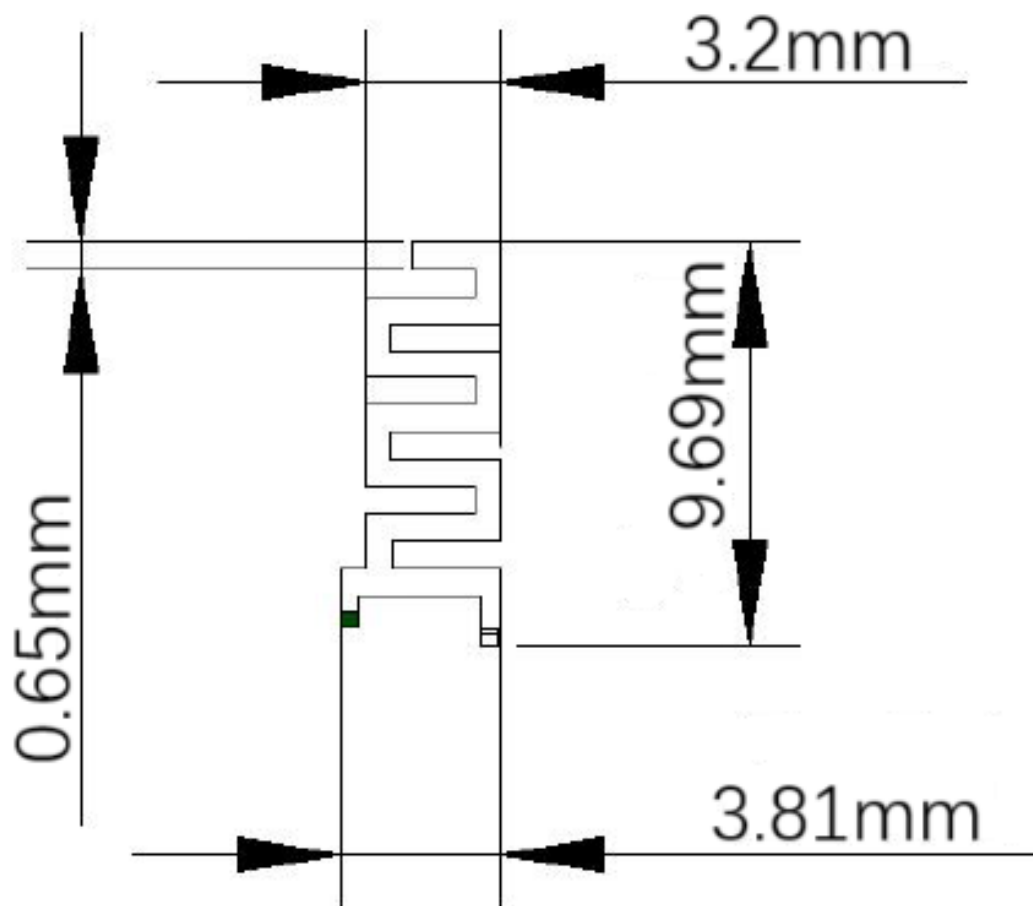


Revise your resume:

edition	Content of change and reasons for change	date	release
A/0	Initial release	July 26, 2024	



Antenna plan:





Antenna technical parameters and environmental testing:

Electrical technical parameter			
Electrical Specifications		Mechanical Specifications	
Frequency Range	2400-2500MHz	Input connector	OPEN
VSWR	<1.92	Working Temperature	-20℃~+70℃
Input Impedance	50 Ω	Working Humidity	20%~80%
Direction	All		
Gain	2.0dBi		

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 ℃ ~ + 80 ℃ 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 ℃ and -20 ℃ 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 ℃. 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



天线性能测试图:

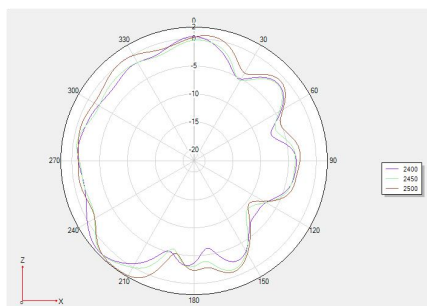


2D、3D(2.4G)测试数据:

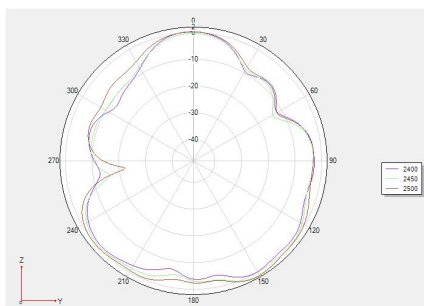
Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400MHz	48.08	1.77
2410MHz	43.55	1.87
2420MHz	46.24	1.17
2430MHz	43.45	1.80
2440MHz	48.00	1.99
2450MHz	47.21	1.92
2460MHz	46.47	1.94
2470MHz	45.71	1.89
2480MHz	43.70	1.12
2490MHz	40.12	1.11
2500MHz	41.05	1.97



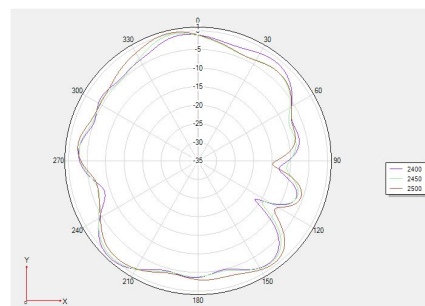
Phi 0 2D 图:



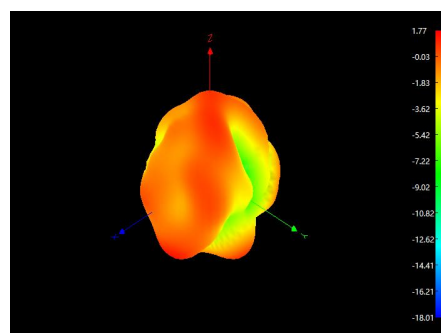
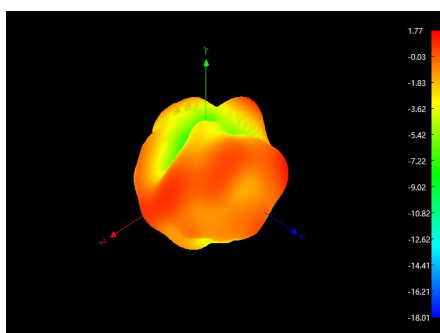
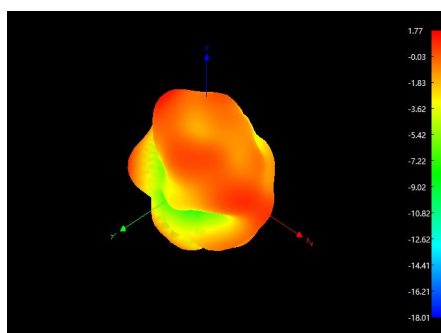
Phi 90 2D 图:



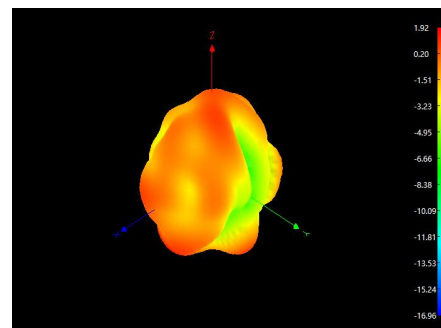
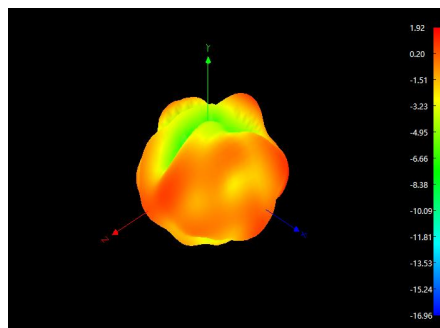
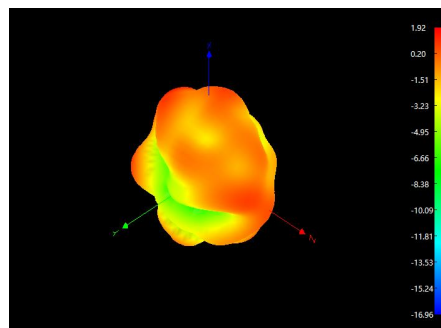
Theta 90 2D 图



3D 2400:



3D 2450:



3D 2500:

