



深圳市英佳创电子科技有限公司

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APPROVAL SHEET

承认书

CUSTOMER NAME Customer Name	Jinding Vision	
CUSTOMER P/N Customer Part Number		
PART NAME Product Name	2.4G onboard antenna	
P/ N Part Number		
APPROVAL REV. Edition	A0	
DELIVERY DATE Sample delivery date	April 26, 2023	
PREPARED BY Host	Yin Feijie	
CHECKED BY Audit	Fang Wenfeng	
APPROVED BY Approval	Xiao Han	
Customer Approved		
Prepared By	Checked By Review	Approved By Approved

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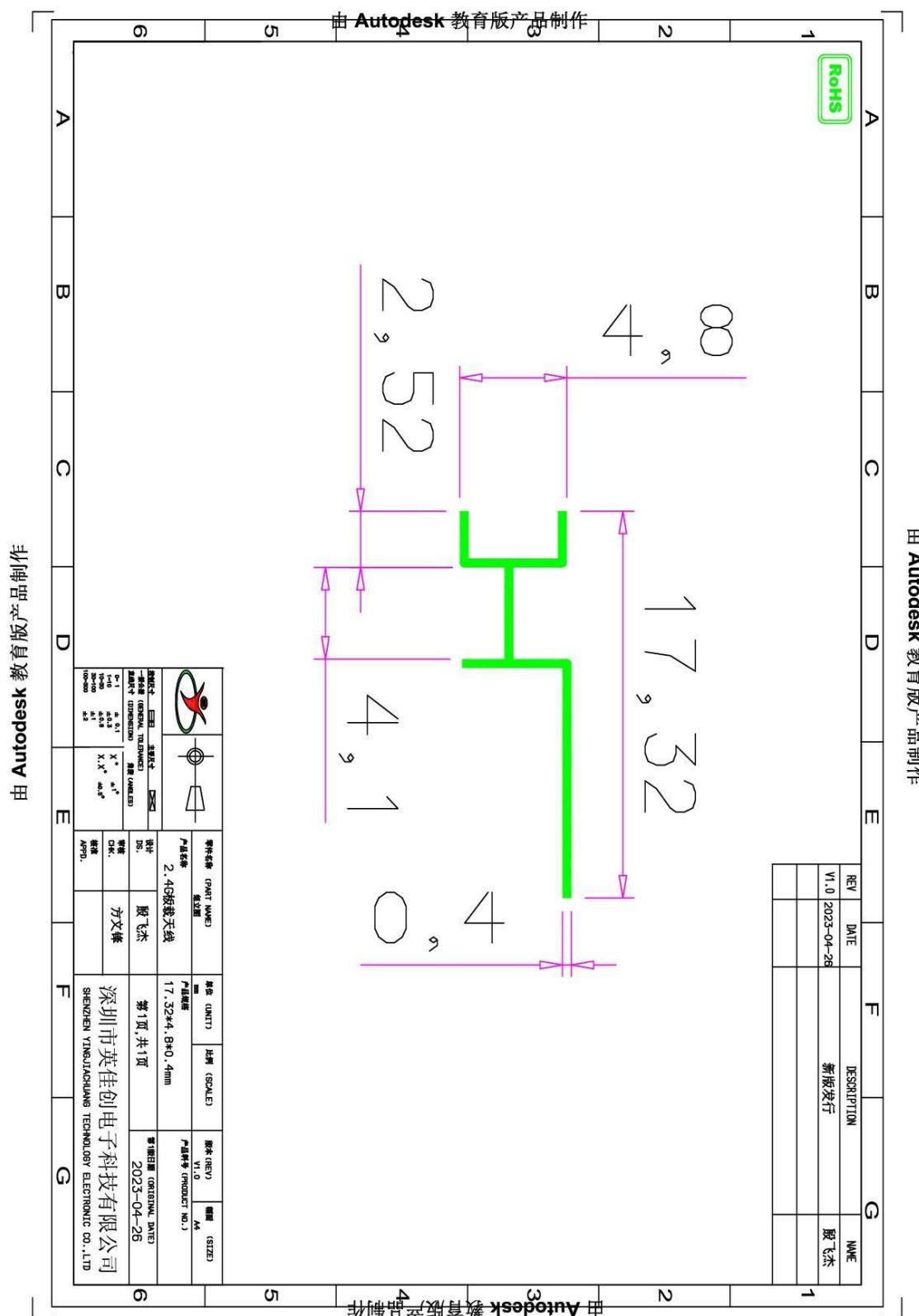
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Resume:

Version	Changes and reasons for changes	date	issued
A/0	First edition released	April 26, 2023	



Antenna plan:





Antenna technical parameters and environmental testing:

Electrical Specifications			
Electrical performance indicators		Electrical Specifications	
Frequency range	2400~2500MHz	Frequency Range	2400~2500MHz
VSWR	<1.92	VSWR	<1.92
Input Impedance	50 Ω	Input Impedance	50 Ω
direction	Omnidirectional	Direction	All
Gain	2.03dBi	Gain	2.03dBi
Mechanical indicators		Mechanical Specifications	
Operating temperature	-20°C~+70°C	Working Temperature	-20°C~+70°C
Operating humidity	20%~80%	Working Humidity	20%~80%

Environmental performance test:

project	Test conditions	Specification
Storage environment	When not specified, the test temperature, humidity and air pressure are as follows: 1. Temperature: -20°C~+70°C 2. Relative humidity is 45%~85% 3. Air pressure is 86kpa~106kpa	Electrical and mechanical performance is normal
High and low temperature test	Carry out 5 cycles between 70°C and -20°C, then place under normal conditions for 1~2H, and check the appearance quality.	The dimensions should meet the requirements and should satisfy the mechanical and electrical performance
Constant humidity and heat resistance test	Relative humidity: 95±3%, test temperature: 40°C. After 2 hours of continuous action, measure the electrical performance within 5 minutes after the test sample is taken out. Check the appearance quality of the test sample under normal conditions for 1~2 hours.	The dimensions should meet the requirements and should satisfy the mechanical and electrical performance



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Vibration test	Frequency range: 10~55HZ, displacement amplitude: 0.35MM , acceleration amplitude: 50.0M/S, sweep cycle times: 30 times	Electrical and mechanical performance is normal
Drop test	times along mutually perpendicular axes	Electrical and mechanical performance is normal



Antenna performance test chart :



2D 、 3D Test data (2.4G) :

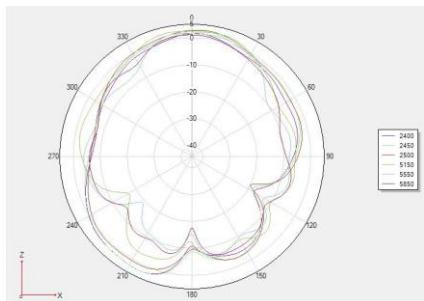
Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	33.11	1.78
2410MHz	33.11	1.83
2420MHz	33.65	1.39
2430MHz	34.36	1.37
2440MHz	32.51	2.03
2450MHz	32.21	1.11
2460MHz	31.19	1.77
2470MHz	30.48	1.68
2480MHz	28.05	1.59
2490MHz	28.77	1.37
2500MHz	30.1	1.58



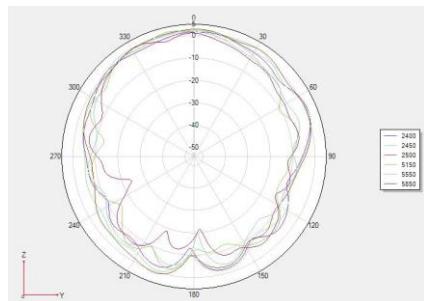
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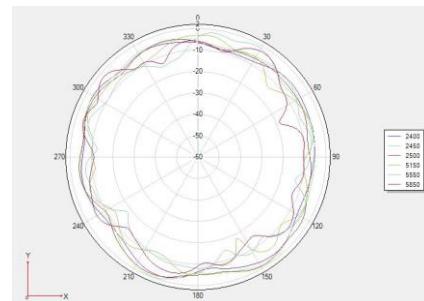
Phi 0 2D Photo :



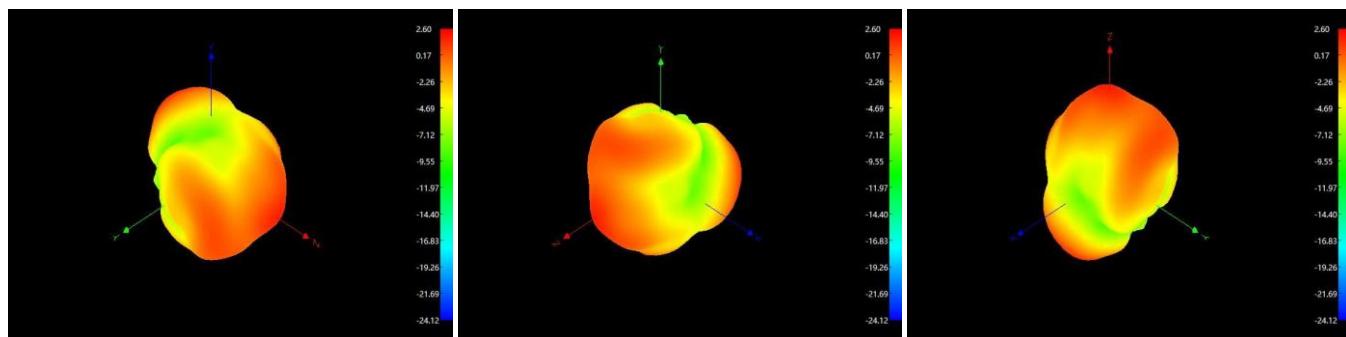
Phi 90 2D Theta



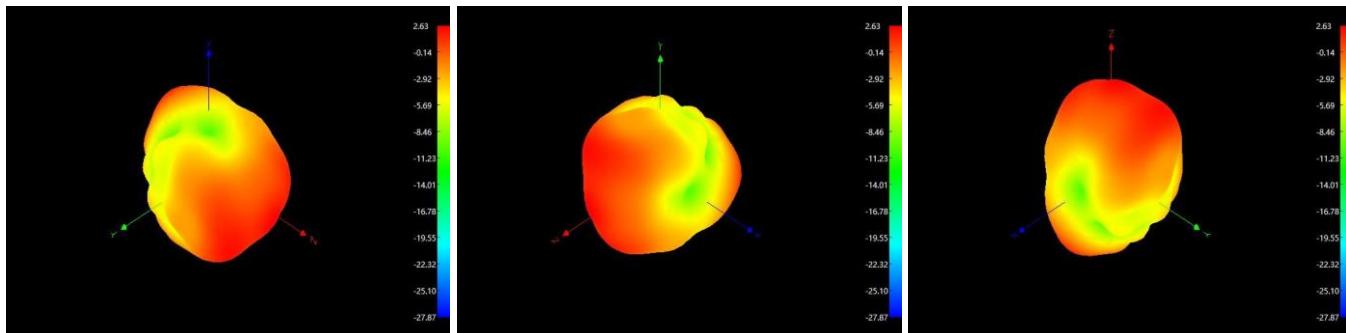
90 2D picture



3D 2400 :



3D 2450 :



3D 2500 :

