



APPROVAL SHEET

CUSTOMER NAME		
CUSTOMER P/N		
PART NAME	2.4G Metal built-in antenna	
P/ N	YJC-6N000-B545	
APPROVAL REV.	A0	
DELIVERY DATE	2024 年 06 月 05 日	
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CHECKED BY	Wenfeng Fang	
APPROVED BY	Han Xiao	
Customer Approved		
Prepared By	Checked By	Approved By

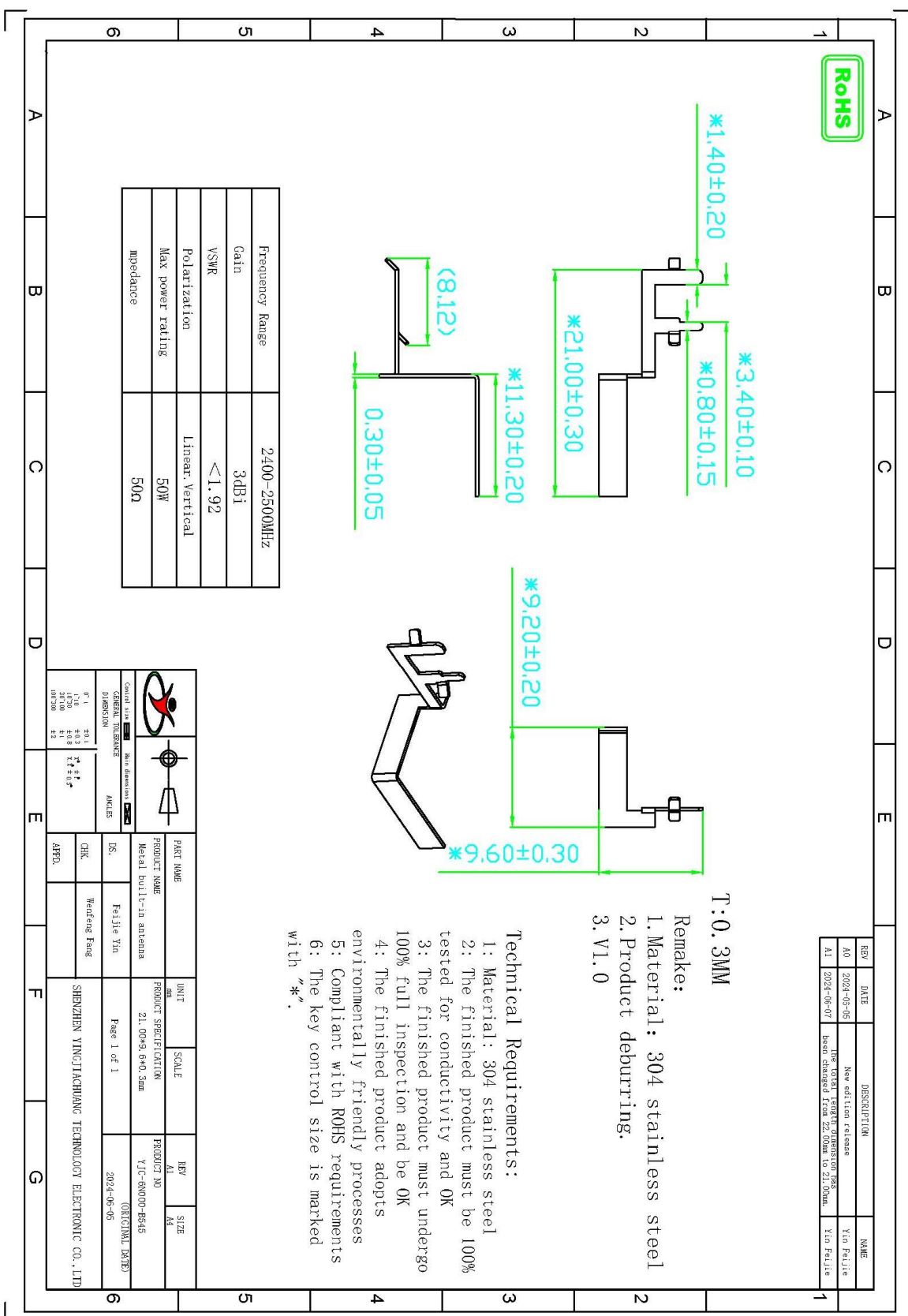
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Resume:

Version	Change content and reason for change	Date	Issue
A0	First Edition	2024/06/05	

Antenna Plan:



**Antenna Specs & Environmental Test:**

Electrical technical parameters	
Electrical Specifications	
Frequency Range	2400-2500MHz
VSWR	<1.92
Input Impedance	50 Ω
Direction	All
Gain	3.0dBi
Mechanical Specifications	
Wire material	304 stainless steel
Input connector	0P
Working Temperature	-20℃~+70℃
Working Humidity	20~80%

Environmental performance testing:

Project	Test conditions	Specification
Storage environment	Test temperature, humidity, and air pressure without specifying as follows: 1. The temperature ranges from -20 ℃ to +70 ℃ 2. Relative humidity is 45% -85% 3. The air pressure ranges from 86kpa to 16kpa	Normal electrical and mechanical performance
High and low temperature test	Perform 5 cycles between 70 ℃ and -20 ℃, and then under normal conditions 1-2H, Check the appearance quality.	The size should meet the requirements and meet the mechanical and electrical performance
Stable endurance Damp Heat Test	Relative humidity 95 $\pm$ 3%, test temperature: 40 ℃ After a continuous action of 2 hours, Measure the electrical performance of the test sample within 5 minutes after removal, and the test sample should be in normal condition After 1-2 hours, check the appearance quality	The size should meet the requirements and meet the mechanical and electrical performance
Vibration test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude: 50.0M/S, Frequency sweep cycle times: 30 times	Normal electrical and mechanical performance
Drop test	Free fall 3 times from a height of 1M along mutually perpendicular axes	Normal electrical and mechanical performance



Antenna performance test chart:

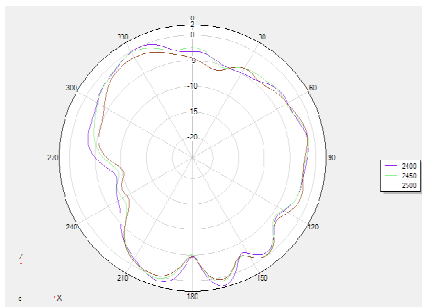




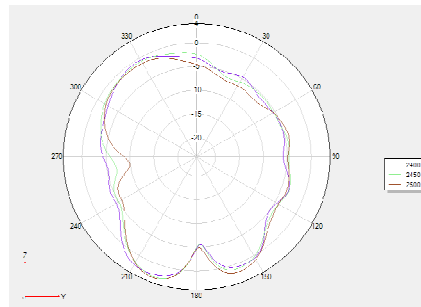
2D.3D (2.4G) Test data:

Frequency (MHz)	Efficiency (%)	Gain. (dBi)
2400MHz	48.42	3.12
2410MHz	50.23	3.00
2420MHz	48.98	3.06
2430MHz	50.58	3.36
2440MHz	49.87	3.07
2450MHz	49.66	2.95
2460MHz	49.99	3.03
2470MHz	49.77	3.02
2480MHz	49.13	3.09
2490MHz	50.00	3.21
2500MHz	49.27	3.07

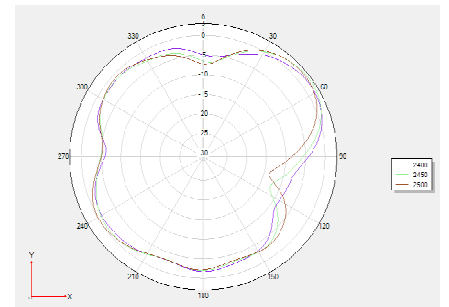
Phi 0 2D



Phi 90 2D

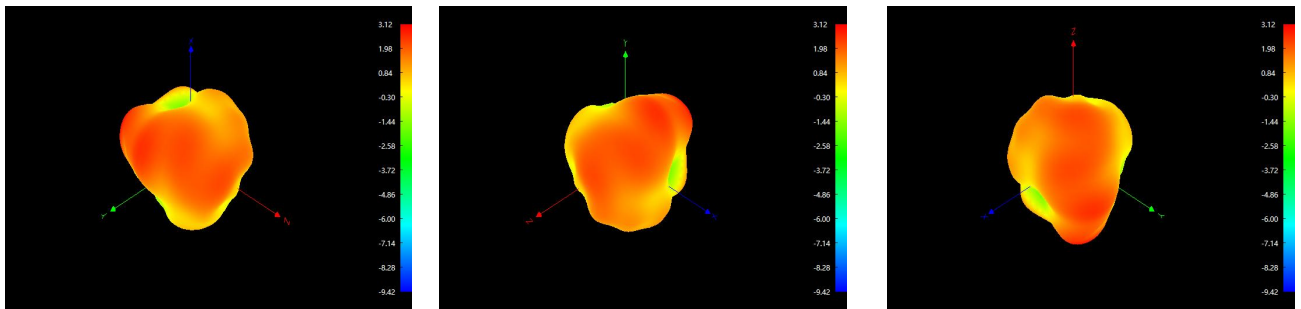


Theta 90 2D

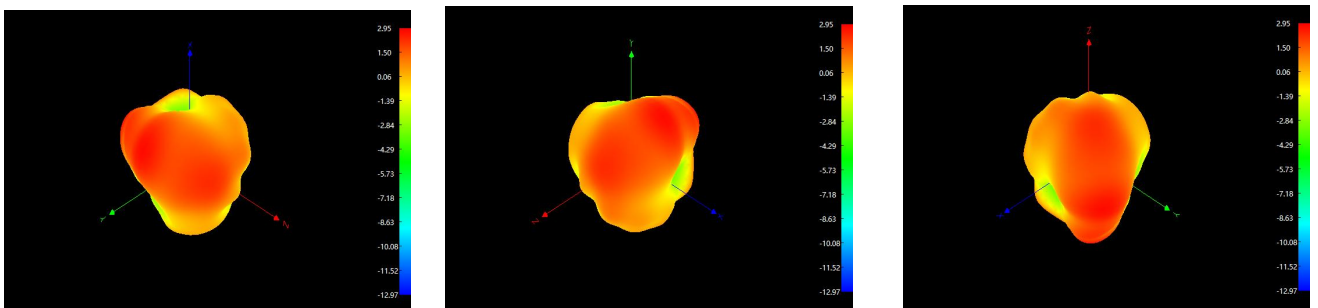




3D 2400:



3D 2450:



3D 2500:

