



APPROVAL SEET

Acknowledgment Letter

CUSTOMER NAME	Meari	
Customer P/N		
PART NAME	2.4G Built-in antenna	
P/N	YJC-6N000-B315	
APPROVAL REV.	V1.0	
DELIVERY DATE	April 18,2022	
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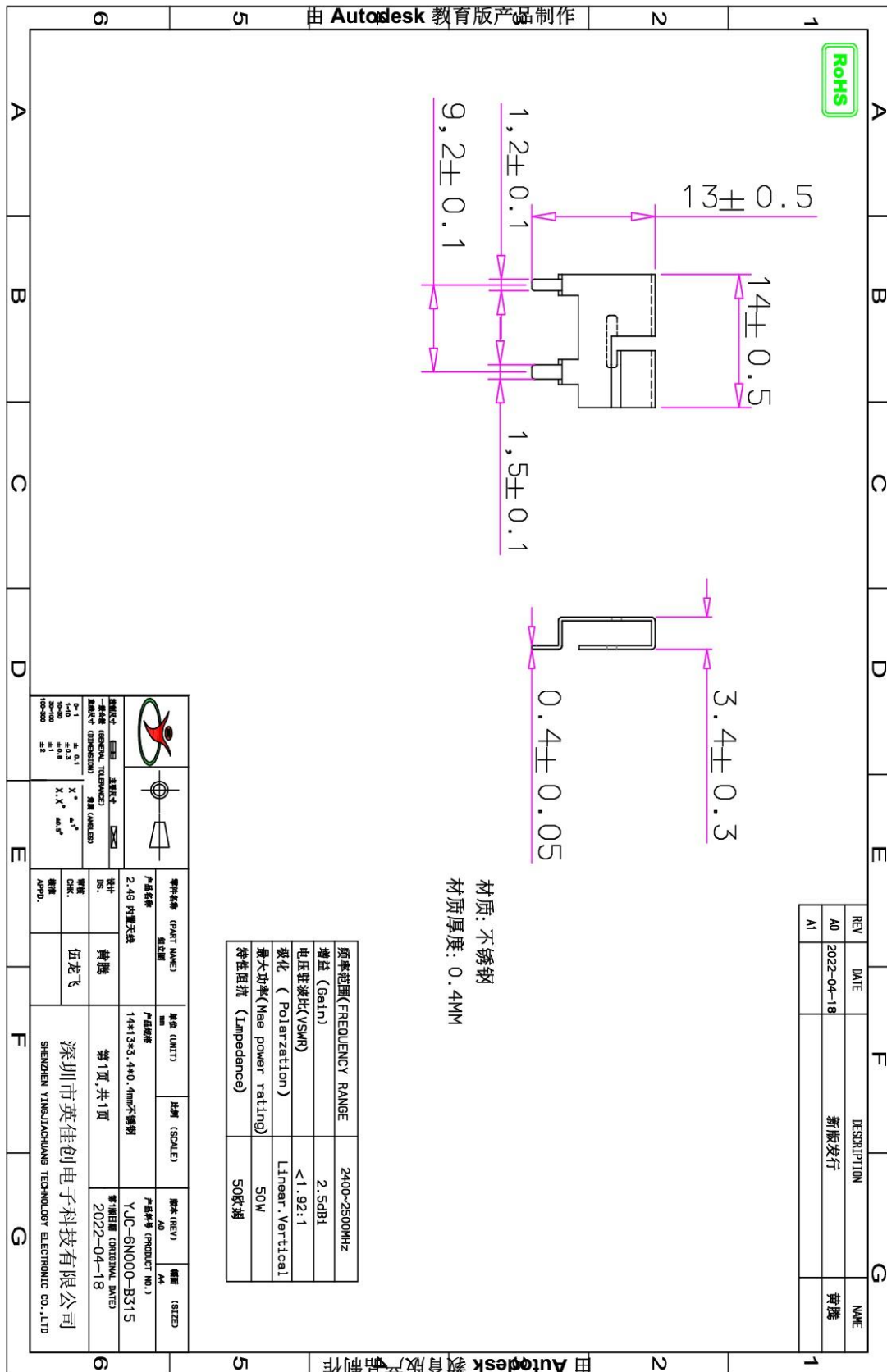


Revision History:

Edition	Changes and reasons for the changes	Date	Issuance
V1.0	First Edition Release	April 18,2022	



Antenna Layout Plan:





Antenna technical specifications and environmental testing:

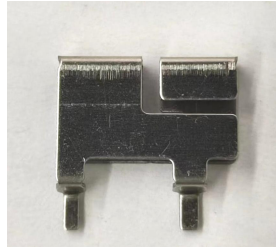
Electrical Technical Specifications			
Electrical Performance Parameters		Electrical Specifications	
Frequency range	2400–2500MHz	Frequency Range	2400–2500MHz
Voltage standing-wave ratio	<1.92	VSWR	<1.92
Input impedance	50 Ω	Input Impedance	50 Ω
Direction	Omnidirectional	Direction	All
Gain	2.5dBi	Gain	2.5dBi
Mechanical Specifications		Mechanical Specifications	
Antenna Material	Stainless steel	Antenna material	Stainless steel
Interface Type	OPEN	Input connector	OPEN
Working temperature	–20℃~+70℃	Working Temperature	–40℃~+85℃
Work humidity	20%~80%	Working Humidity	20~80%

Environmental Performance Testing:

Project	Test condition	Specifications
Storage Environment	When no specific specifications are provided, the test conditions for temperature, humidity, and air pressure are as follows: 1. Temperature range: –30℃ to +80℃ 2. Relative humidity: 45%–85% 3. Air pressure: 86 kPa–106 kPa	Electrical and mechanical performance is normal.
Thermocycling	Perform 5 cycles between 70 °C and –20 °C, followed by a 1–2-hour observation at normal conditions to inspect the appearance quality.	Dimensions shall comply with the specified requirements and shall satisfy both mechanical and electrical performance criteria.
Constant humidity and heat resistance test	Relative humidity: 95 ± 3%; test temperature: 40 °C. After a 2-hour exposure period, the electrical properties of the specimen shall be measured within 5 minutes after removal from the test environment; under normal conditions, the specimen shall be inspected for its appearance quality for 1–2 hours.	Dimensions shall comply with the specified requirements and shall satisfy both mechanical and electrical performance criteria.
Vibration test	Frequency range: 10–55 Hz; displacement amplitude: 0.35 mm; acceleration amplitude: 50.0 m/s ² ; sweep cycle count: 30 cycles	Electrical and mechanical performance is normal.
Fall-down test	Subject the 1M object to three free-fall tests from a height of 1 meter along mutually perpendicular axes.	Electrical and mechanical performance is normal.



Physical Antenna Image:



Antenna Performance Test Plot:

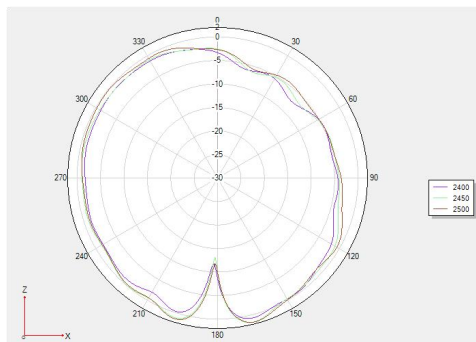




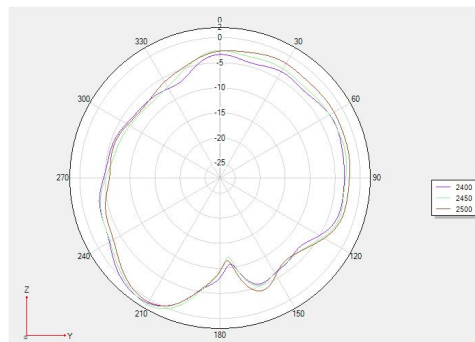
2D、3D test data (2.4G) :

Frequency	Efficiency (%)	Gain. (dBi)
2400MHz	51.29	1.64
2410MHz	51.29	2.24
2420MHz	52.72	1.98
2430MHz	52.24	2.16
2440MHz	52.72	1.88
2450MHz	55.21	2.62
2460MHz	54.83	2.25
2470MHz	53.7	2.47
2480MHz	55.46	2.63
2490MHz	55.59	2.88
2500MHz	55.08	2.77

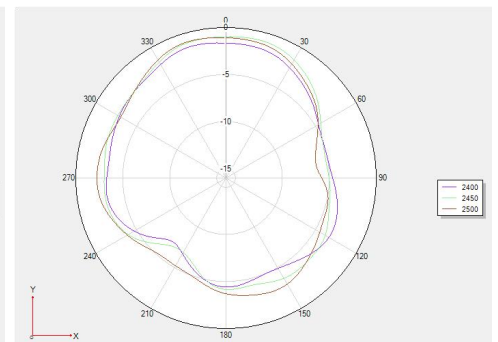
Phi02D graph :



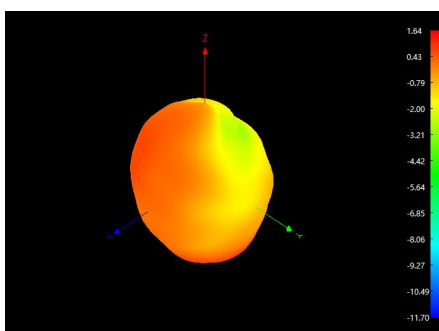
Phi902D graph



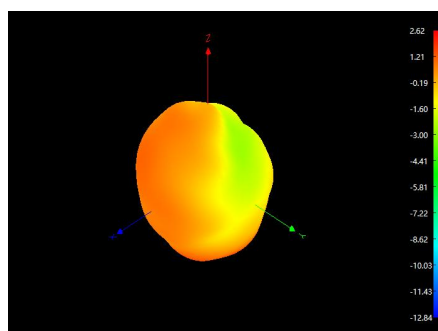
Theta902D graph



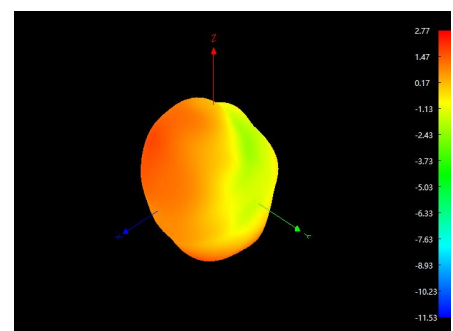
3D 2400:



3D 2450:



3D 2500:





Material RoHS Compliance Declaration Table

This certificate certifies that all raw materials used in the components and auxiliary materials supplied to your company, as well as all additives employed in the production process, comply with the environmental requirements of the RoHS Directive (RoHS Directive 2011/65/EC) regarding the restriction of hazardous substances.

The composition report regarding the raw materials used for components and auxiliary materials, the packaging materials, and the additives employed during the production process is as follows:

Material Composition Name Component /Part Name	Composition materials Material Composition	ICP report number ICP report #	Testing Organization	Test Date	有害物質含量(ppm)						Is it qualified? PASS?
					Cd	Pb	Hg	Cr ⁶⁺	PBB	PBDE	PASS
Stainless steel components	Ordinary carbon steel	SZXEC2200123701	SGS	22/01/18	ND	ND	ND	ND	ND	ND	PASS