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APPROVAL SHEET



CUSTOMER NAME						
Customer name						
CUSTOMER P/N						
Customer Part Number						
PART NAME	2.4G black integrated antenna L=140MM					
P/N	V/IQ 20//10 P/IQ					
Part Number	YJC-6C140-B13					
APPROVAL REV.	A0					
DELIVED V DATE						
DELIVERY DATE	December 25, 2024					
Sample delivery date	ANH ZAVA					
PREPARED BY	Yin Feijie					
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Resume:

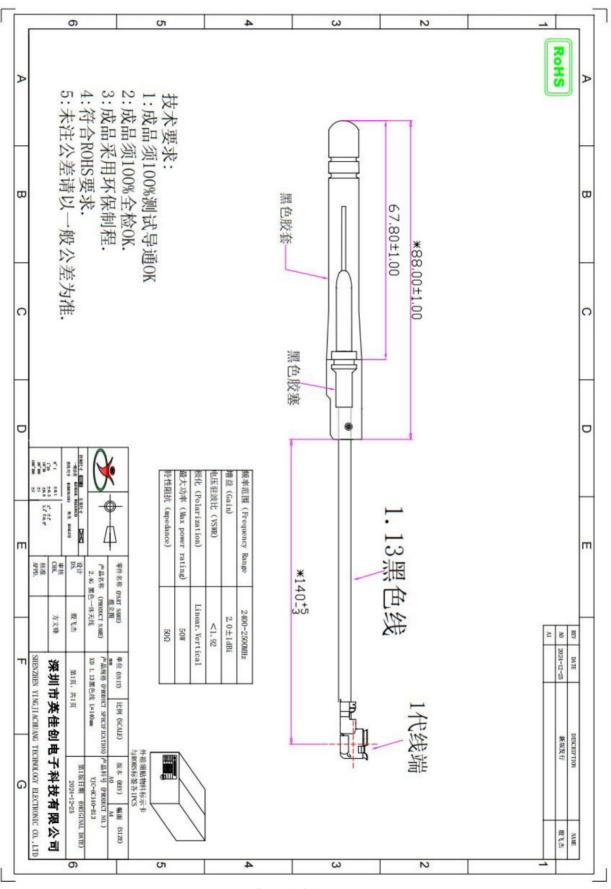
Version	Changes and reasons for changes	date	issued		
A/0	First edition released	December 25, 2024			



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Antenna plan:



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Antenna technical parameters and environmental testing:

Electrical Specifications				
Electrical performance indicators				
Frequency range	2400-2500MHz			
VSWR	<1.92			
Input Impedance	50			
direction	Omnidirectional			
Gain	2.87dBi			
Mechanical indicators				
Antenna color	black			
Interface	XD			
Cable length	140mm			
Operating temperature	-20 ~+70			
Operating 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: -30 +80 2.Relative humidity is 45%-85% 3. Air pressure is 86kpa-106kpa	Electrical and mechanical performance is normal
High and low temperature test	Cycle between 70°C and -20°C for 5 times, then 1-2H, check the appearance quality.	The dimensions shall meet the requirements and shall satisfy the mechanical and electrical performance
Constant resistance Damp heat test	Relative humidity 95±3%, test temperature: 40 . After 2 hours of continuous action, The electrical performance of the test sample shall be measured within 5 minutes after it is taken out. 1-2 hours after the parts are removed, check the appearance quality	The dimensions shall meet the requirements and shall satisfy the mechanical and electrical performance
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: 1M high altitude f	ree fall 3 times in mutually perpendicular axis directions	Electrical and mechanical performance is normal

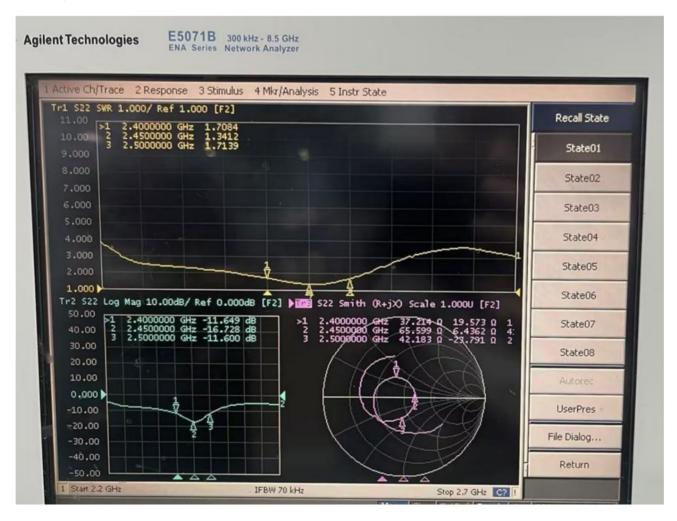


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Antenna physical picture:



Antenna performance test chart:





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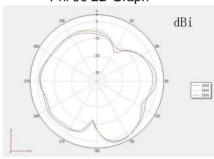
2D, 3D (2.4G) test data:

Frequency(MHzÿ	Efficiency (%)	Gain.(dBi)
2400MHz	66.99	1.93
2410MHz	65.92	2.08
2420MHz	66.68	2.28
2430MHz	67.3	2.49
2440MHz	66.22	2.72
2450MHz	65.46	2.87
2460MHz	63.68	2.71
2470MHz	66.07	2.87
2480MHz	64.42	2.83
2490MHz	62.23	2.54
2500MHz	61.66	2.58

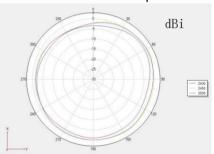
Phi 0 2D graph:

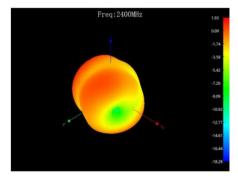
3D 2400:

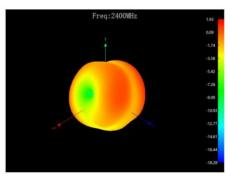
Phi 90 2D Graph

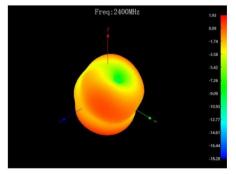


Theta 90 2D Graph

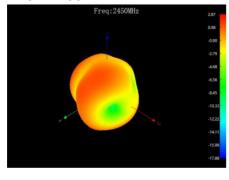


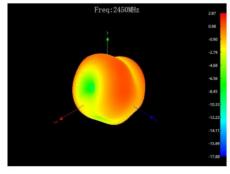


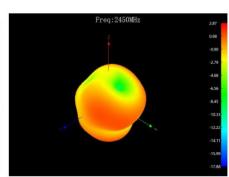




3D 2450:





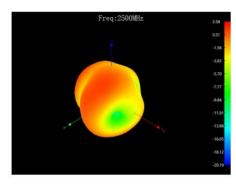


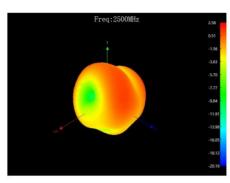


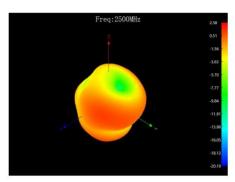
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3D 2500:









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ROHS Material Control Report

This is to certify that the components, raw materials used in auxiliary materials, and additives used in the production process delivered to your company comply with the environmental protection requirements of the RoHS Directive on the Restriction of the Use of Hazardous Substances (RoHS Directive 2011/65/EC)

The composition of the raw materials, packaging materials and additives used in the production process of components and auxiliary materials is reported as follows:

Name of ingredients Component	Composition Materials ICP Report Number Material	Testing agency	Testing time	Hazardous substance content (ppm)						Qualified? PASS?	
/Part Name	Composition	ICP report #	Test Org. Test Date	Test Date	Cd	Pb	Hg	Cr ⁶⁺	PBB PBDE		PASS
Plastic parts	TPEE	A2240057268120001	SGS	24/03/13	ND	ND	ND	ND	ND	ND	PASS
	PC +PBT	A2240057268112001	СТІ	24/03/05	ND	ND	ND	ND	ND	ND	PASS
Bullet Brass NGBE	C24002403414		SGS	24/05/14	ND	11	ND	ND	ND	ND	PASS
Wire	Teflon coaxial Cables	CANEC24002746206	SGS	24/02/23	ND	ND	ND	ND	ND	ND	PASS
Terminals	Phosphor bronze (CANEC24000977302	SGS	24/01/22	ND	6	ND	ND	ND	ND	PASS
	Gold plating A224	0410234101001E	СТІ	24/07/16	ND	ND	ND	ND	ND	ND	PASS
	Rubber core A2	240126395101003E	СТІ	24/03/16	ND	ND	ND	ND	ND	ND	PASS
Silicone plug silicor	e CANEC23017729318		SGS	24/01/12	ND	ND	ND	ND	ND	ND	PASS