



# APPROVAL SHEET

## 承认书

CUSTOMER NAME customer name		
CUSTOMER P/N Customer part number		
PART NAME name of a part	2.4G onboard antenna (model: D301) PCB ANTENNA	
P/ N P / N		
APPROVAL REV. order of the edition	A0	
DELIVERY DATE Date of sample delivery	202408 August 12	
PREPARED BY undertake	Yin Feijie	
CHECKED BY examine and verify	Fang Wenfeng	
APPROVED BY approval	Shawhan	
Customer Approved Client acceptance		
Prepared By undertake	Checked By examine and verify	Approved By approval

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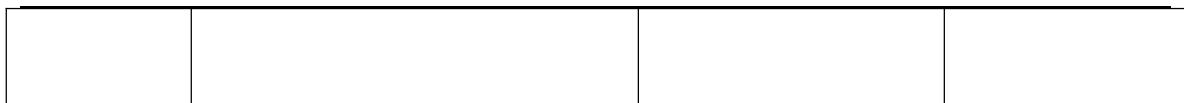


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## Revise resume:



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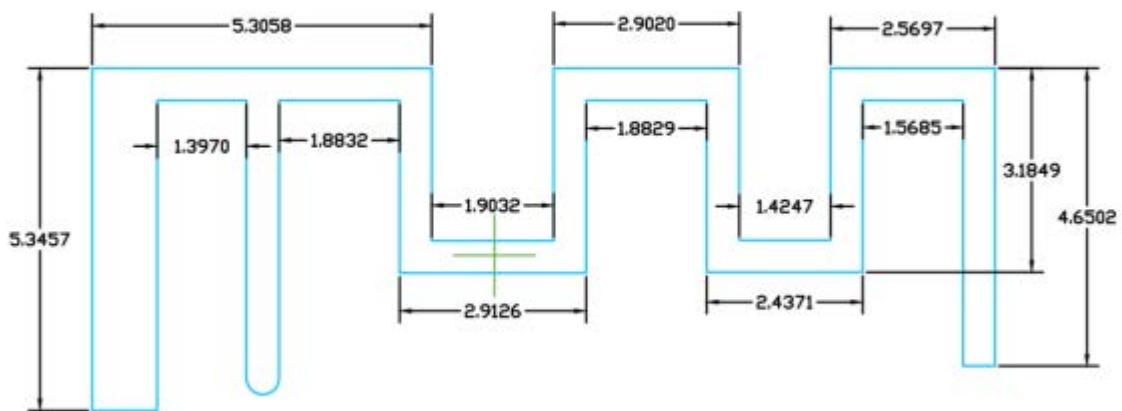




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Antenna plan:

Unit: mm





## Antenna technical parameters and environmental test:

<b>Electrical technical parameters</b>			
Electrical performance indicators		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	1.8±1dBi	Gain	1.8±1dBi
Mechanical indicators		Mechanical Specifications	
Interface format	OPEN	Input connector	OPEN
working temperature	-20°C~+70°C	Working Temperature	-20°C~+70°C
Humidity at work	20%~80%	Working Humidity	20%~80%

## Environmental performance test:

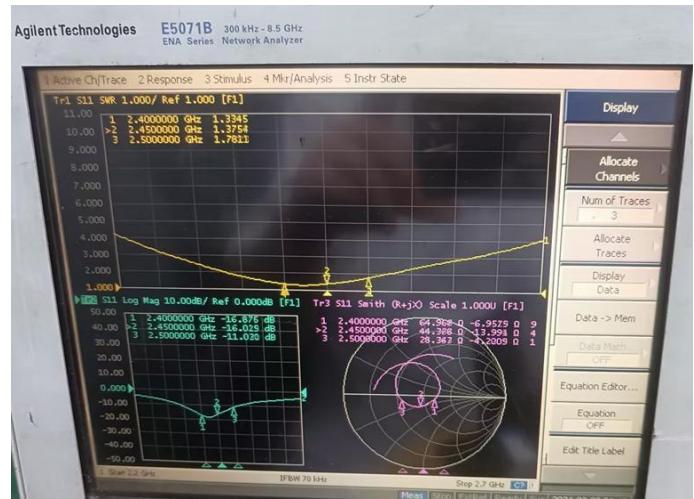
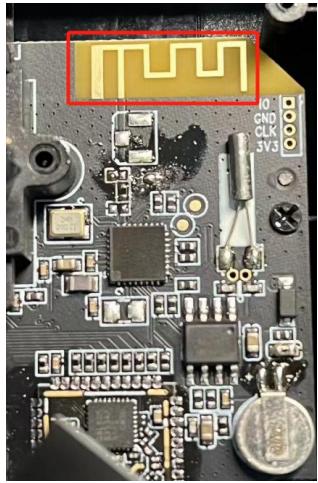
project	test condition	specifications
Storage environment	In the absence of a specification, the test temperature, humidity and air pressure are as follows:  1. The temperature is -20°C ~ +70°C 2. The relative humidity is 45%-85% 3. The air pressure is 86kpa-106kpa	Electrical and mechanical properties are normal
thermocycling	Perform 5 cycles between 70°C and -20°C, then under normal conditions  1-2H, check the appearance quality.	The size shall meet the requirements and shall be subject to mechanical and electrical properties
Constancy of resistance humid heat test	Relative humidity 95±3%, test temperature: 40°C. After 2H action,  Electrical properties are measured within 5min after the test specimen is taken out. The test specimen is normal  Check the appearance quality of item 1-2H	The size shall meet the requirements and shall meet the mechanical and electrical properties
vibration test	Vibration frequency range 10-55HZ, displacement amplitude: 0.35MM, acceleration amplitude:	Electrical and mechanical properties are normal



	50.0M/S, frequency sweep cycle: 30 times	
fall-down test	1M drop freely along the perpendicular axis direction for 3 times	Electrical and mechanical properties are normal

Antenna physical image: Antenna performance test image:

Antenna physical image: Antenna performance test image:





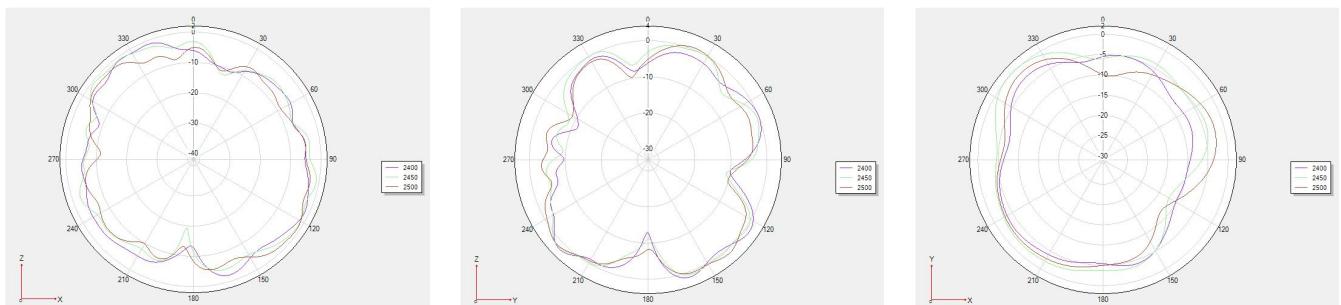
### 2D.3D test data (2.4G) :

Frequency	Efficiency (%)	Gain.(dBi)
2400MHz	52.36	1.88
2410MHz	55.08	1.65
2420MHz	54.33	1.75
2430MHz	47.75	1.73
2440MHz	49.89	1.59
2450MHz	48.31	1.62
2460MHz	50.12	1.69
2470MHz	48.35	1.47
2480MHz	47.27	1.55
2490MHz	45.36	1.41
2500MHz	46.88	1.65

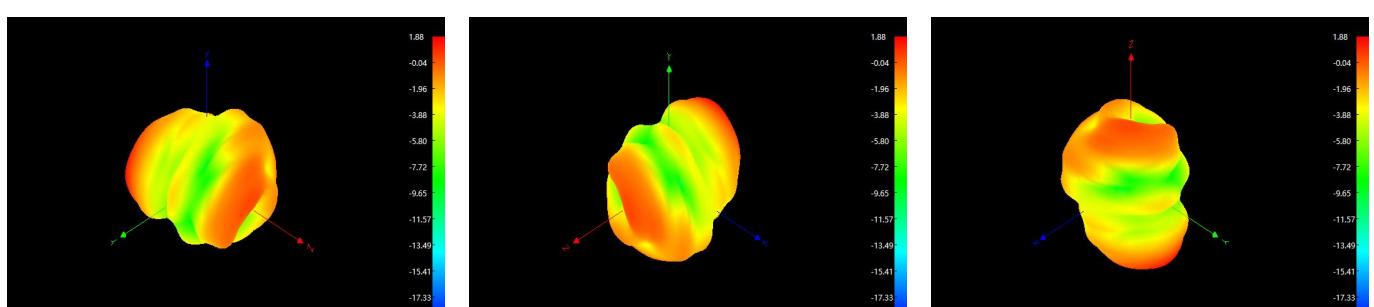
Phi 0 2D diagram: Phi 90 2D diagram Theta 90 2D diagram

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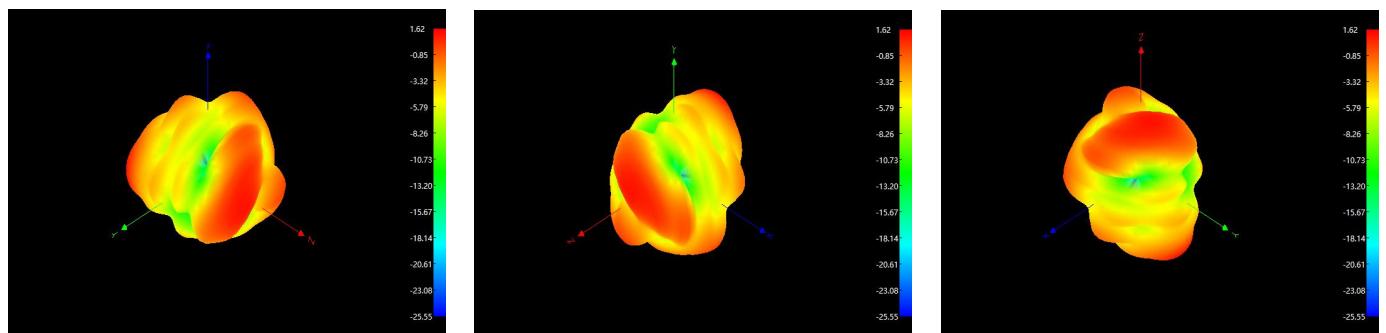


3D 2400:





3D 2450:



3D 2500

