SPECIFICATIONS FOR APPROVAL

Custor	ner Name:						
Product Name:		2.4GHz Antenna					
Produc	ct Model:						
Part N	umber:	LJW01-17091602-R0A					
Write E	By:	Huxuwen					
Issued	Date:	2021-04-08					
CUST	OMER						
ENGINEER R&D DEPT		BUSSINESS DEPT		APPROVAL			
LEJIN			1				
R&D DEPT		ENGINEER DEPT			APPROVAL		
REV MODIFIED DES		CRIPTION DATE			REMARK		

2021/04/08

V1.0

Initial Draft Release

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3. Product Specification

A. Electrical Characteristics					
Frequency	2400MHz ~2500 MHz				
VSWR	<2.0				
Efficiency	>40%				
Impedance	50Ohm				
Polarization	Linear				
Gain	≥1.0dB				
B. Material & Mechanical Characteristics					
Material of Radiator Metal					
Cable Type	N/A				
Connector Type	N/A				
Dimension	19.0*3.50*3.75(H)mm				
C. Environmental					
Operation Temperature	- 20 °C ~ + 70 °C				
Storage Temperature	- 30 °C ~ + 85 °C				
Humidity	40%~95%				

4. Test Equipment & Conditions

1.Network Analyzers Agilent 8753D/5071C

2.HSPA and LTE protocol test set R&S CMW500 -PT

3.Communications Test Set Agilent 8960

4.3D Chamber Test System

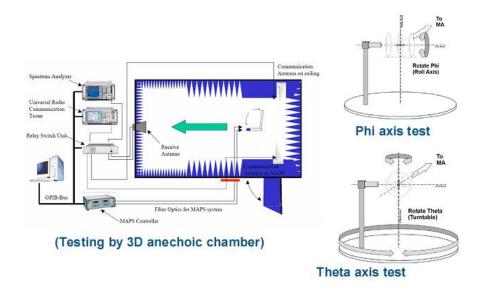


Chart 1 Test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

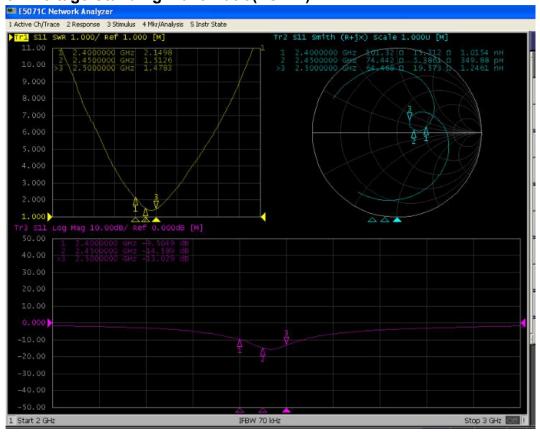
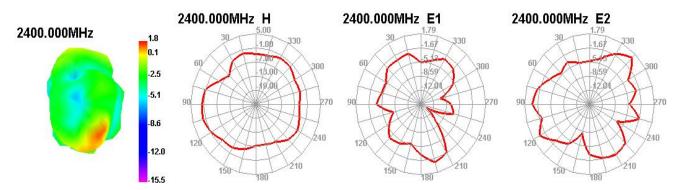


Chart 2 VSWR

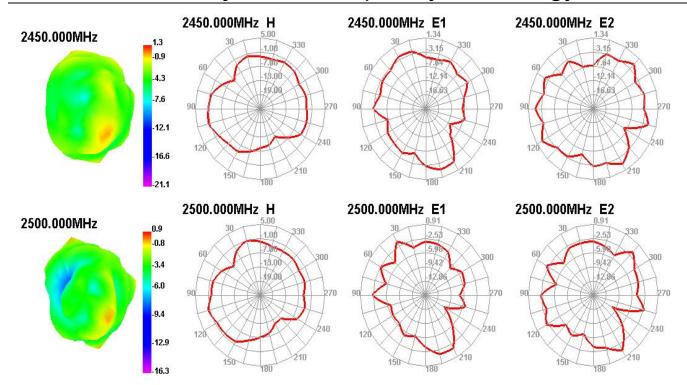
5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For WIFI	Effi(%)	42.62	46.84	51.47	55.07	53.54	48.06	51.80	49.38	44.21	42.77	40.64
	Gain(dBi)	0.97	1.04	1.06	1.05	0.94	0.99	1.02	1.19	1.02	0.77	0.36

5.3 Radiation pattern.



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6.Reliability Test

Test Item		Test condition	Equipment	Specification	Result
1	Storage Test	Temperature: -30°C, Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25 °C and humidity is 65% for one hour, then step-down the temp. to -30°C in one hour, store antenna for44 hours; step-up temp to 25°C, test antenna after 2 hours.	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
2	Humid Storage Test	Temperature: 85°C Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25°C and humidity is 65% for one hour, then step-up the temp. to 80°C and the humidity up to 85% in one hour, store antenna for 44 hours; step-down tempto 25°C ,test antenna after 2 hours.	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
3	6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: $35\pm2^\circ$ C Humidity: 85% NaCl salt spray :5 ±1 %.PH value :6.5 \sim 7.2 Testtime:24hours	Salt-Spray Tester	No color change No appear rusting	PASS

7.Assemble type(omitted)

8. Product Drawing

