SPECIFICATIONS FOR APPROVAL

Customer Name:		
Product Name:	2.4GHz Antenna	
Product Model:		
Part Number:	LJW01-17091602-R0A	
Write By :	Huxuwen	
Issued Date:	2021-04-08	

CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVAL

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R&D DEPT	ENGINEER DEPT	APPROVAL

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2021/04/08	

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3.Product Specification

A. Electrical Characteristics				
Frequency	2400MHz ~2500 MHz			
VSWR	<2.0			
Efficiency	>40%			
Impedance	50Ohm			
Polarization	Linear			
Gain	≤1.8dB			
B. Material & Mechanical Characteristic	25			
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

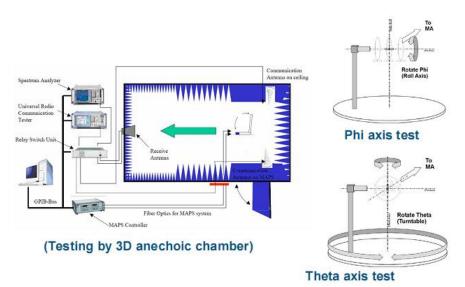


Chart 1 Test topology

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5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

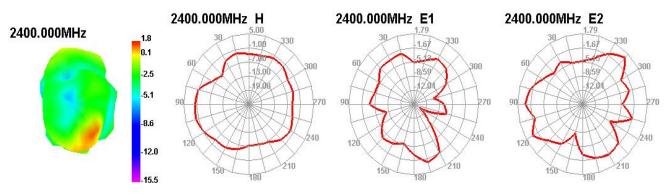


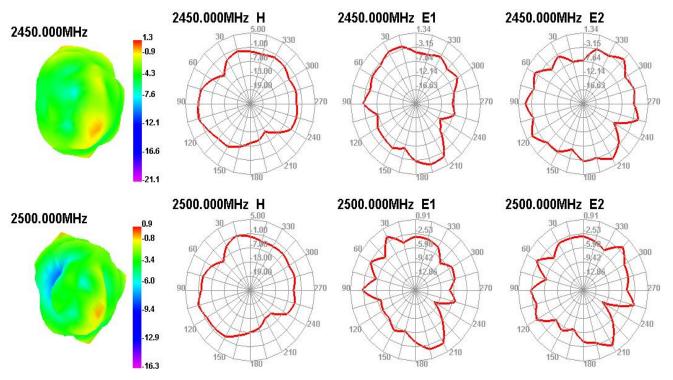
Chart 2 VSWR

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)	1.47	1.44	1.56	1.65	1.54	1.79	1.62	1.59	1.62	1.37	0.36

5.3 Radiation pattern.





6.Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
1	Low Temp. Storage Test	Temperature Chamber, keep the temp is 25 C and	m1. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2	High Temp./High 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 ± 2 °C Humidity: 85% NaCl salt spray :5±1%.PH value :6.5~7.2 Testtime:24hours	Salt-Spray	No color change No appear rusting	PASS

7.Assemble type(omitted)

8. Product Drawing

