SPECIFICATIONS FOR APPROVAL

Customer Name	SHENZHEN ELECTRON TECHNOLOGY CO.,LID
Product Name:	WIFI Antenna
Product Model:	WH1012T/WH1018T
Part Number:	LJF01-20071707A-R0A
_	Huxuwen
Write By :	nuxuweii
leeuod Dato:	2022 40 44

Index

1.	Cover
2.	Index • • • • • • • • • • • • • • • • • • •
3.	Product Specification • • • • • • • • • • • • • • • • • • •
4.	Test Equipment & Conditions • • • • • • • • • • • • • • • • • • •
5.	Test Report • • • • • • • • • • • • • • • • • • •
6.	Reliability Test • • • • • • • • • • • • • • • • • • •
7.	Assemble type • • • • • • • • • • • • • • • • • • •
8.	Product Drawing • • • • • • • • • • • • • • • • • • •

3. Product Specification

A. Electrical Characteristics								
Frequency	2400MHz ~2500 MHz							
	5150MHz ~5850 MHz							
VSWR	<2.0							
Efficiency	≥40%							
Impedance	50Ohm							
Polarization	Linear							
Gain(2.4GHz)	≤2.0dB							
Gain(5GHz)	≤2.5dB							
B. Material & Mechanical Characteristic	es							
Material of Radiator	FPC(Black),LJWF28A							
Cable Type	Φ1.13mm,L120mm,Black							
Connector Type	IPX1							
Dimension	25.0*13.0mm							
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

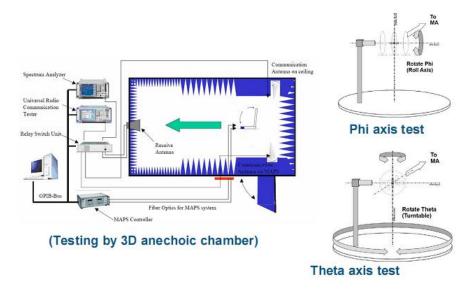


Chart 1 Test topology

Shenzhen Lejin radio frequency technology Co., LTD

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

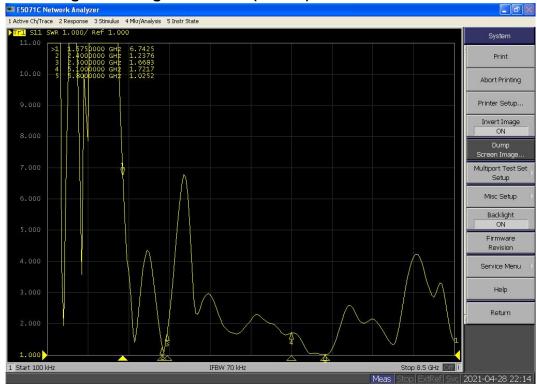


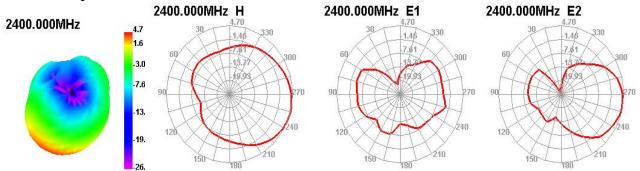
Chart 2 VSWR

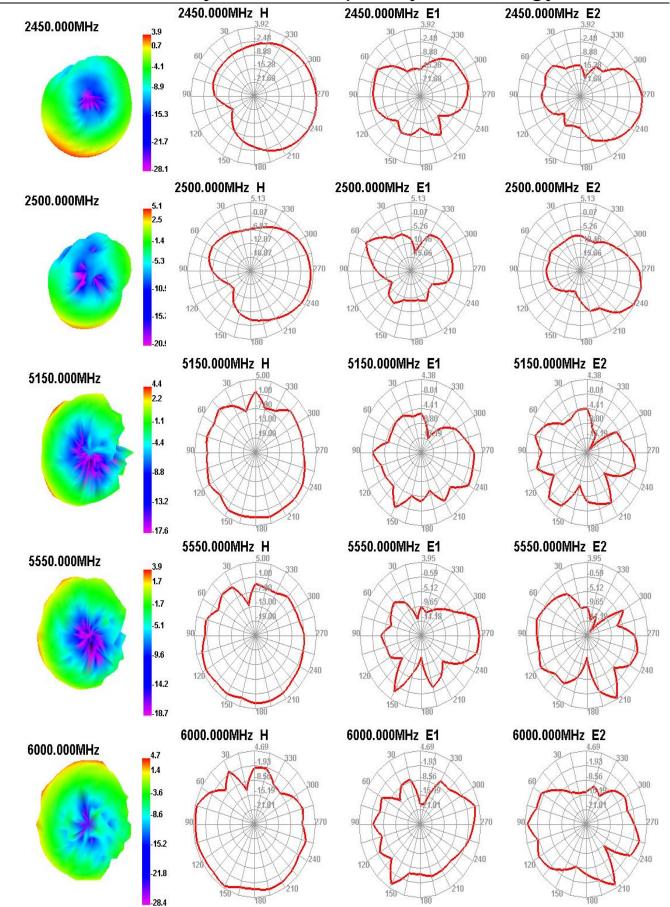
5.2 Efficient and gain.

-												
Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test	Effi(%)	45.81	49.26	50.82	57.20	53.84	57.12	53.80	60.33	58.06	62.25	63.04
For 2.4G	Gain(dBi)	1.89	1.91	1.96	1.95	1.89	1.83	1.95	1.88	1.91	1.84	1.71

Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test For	Effi(%)	50.24	55.24	53.29	52.97	59.70	56.72	60.57	56.66	52.24	56.34	55.62	53.11	54.97	55.56	56.86
WIFI 5G	Gain(dBi)	2.20	2.42	2.36	2.38	2.41	2.40	2.44	2.31	2.37	2.41	2.32	2.25	2.43	2.47	2.48

5.3 Radiation pattern.





Lejin radio frequency Proprietary & Confidential © 2017 Lejin radio frequency Corporation. All rights reserved.

Add: Rm 301B,A4 Bld,Junfeng Innovation Park,Fuyong, Baoan Dist,Shenzhen. Tel:0755-27780515 Email:phxcler@szljrf.com

Shenzhen Lejin radio frequency technology Co., LTD

6.Reliability Test

Test Item		Test condition	Equipment	Specific	ation	Result		
		Temperature: -30°C, Time:48hrs		No 1	naterial			
	Low Temp.	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformati	on is			
1		Temperature Chamber, keep the temp is 25 $^{\circ}\mathrm{C}$ and humidity is	;	allowed.		PASS		
1	Storage Test	65% for one hour, then step-down the temp. to $-30^\circ\mathrm{C}$ $$ in one	Tester	Electronic		rass		
	Test	hour, store antenna for44 hours; step-up temp to 25 $^\circ \! \mathbb{C}$,test	1 ester	Performar	nce is			
		antenna after 2 hours.		ok .				
		Temperature: 85℃ Humidity: 85% RH Time:48hrs		No r	naterial			
	High	Test condition: Placing antenna in a Low/High	deformati	on is				
2	Temp./High	Temperature Chamber, keep the temp is 25 °C and humidity is	Temp.&Hum	allowed.		PASS		
2	Humid	65% for one hour, then step-up the temp. to $80^\circ\!\mathrm{C}$ and the	or one hour, then step-up the temp. to 80 °C and the Tester					
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	1 ester	Performar	nce is			
		step-down tempto 25 ℃,test antenna after 2 hours.		ok .				
	Salt-Spray 6	Placing antenna in the Salt-Spray Tester ,set the test	C-14 C	No color (change			
3		condition ,Temp: $35{\pm}2$ $^{\circ}$ C Humidity: 85% NaCl salt spray :5	Salt-Spray	No	appear	PASS		
		\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting				

7. Assemble type

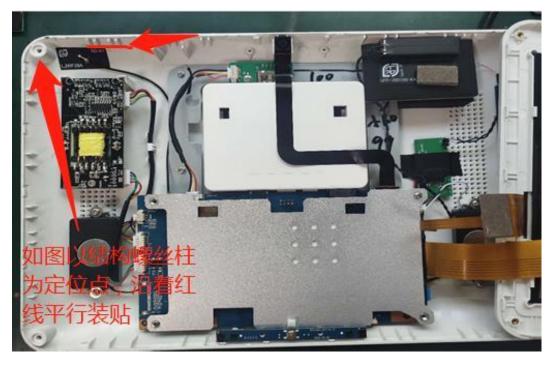


Chart 3 WH1012T/WH1016T/WH1018T assemble type

8. Product Drawing

