SPECIFICATIONS FOR APPROVAL

Customer Name:		Shenzhen Suichen Technology Co.,Ltd									
Produ	ct Name:		WIFI Ant	tenna2							
Anten	na type:		FPC Anten	na	-						
Produ	ct Model:		N/A		-						
Part N	umber:	L.	LJF02-21051908C-R0A								
Write I	Ву:		Liming	jin							
Issued	l Date:		2021-05-19								
CUST	OMER										
ENG	INEER R&D DEPT	BUSSINE	SS DEPT	APPROVAL							
LEJIN	l										
	R&D DEPT	ENGINE	ERDEPT	APPROVAL							
REV	MODIFIED D	ESCRIPTION	DATE	REMARK							
V1.0	Initial Draft Release		2021/05/19								

Index

1.	Cover·····
2.	Index2
3.	Product Specification 3
4.	Test Equipment & Conditions 3
5.	Test Report·····
6.	Reliability Test·····5
7.	Assemble type 6
8.	Product Drawing ······ 8

3. Product Specification

A. Electrical Characteristics						
Frequency	2400MHz ~2500 MHz					
	5150MHz ~5850 MHz					
VSWR	<2.0					
Efficiency	≥40%					
Impedance	50Ohm					
Polarization	Linear					
Gain(2.4G)	≤2.11dB					
Gain(5G)	≤3.29dB					
B. Material & Mechanical Characteristic	S					
Material of Radiator	FPC,black,,LJWF23F					
Cable Type	Φ0.81mm,L60mm,Black					
Connector Type	IPX3					
Dimension	26.0mm*21.5mm					
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

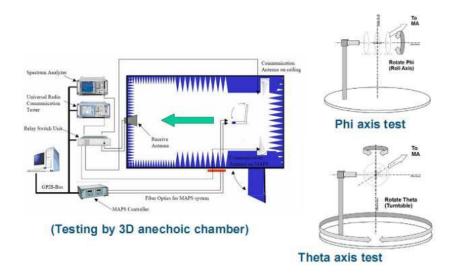


Chart 1 Test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

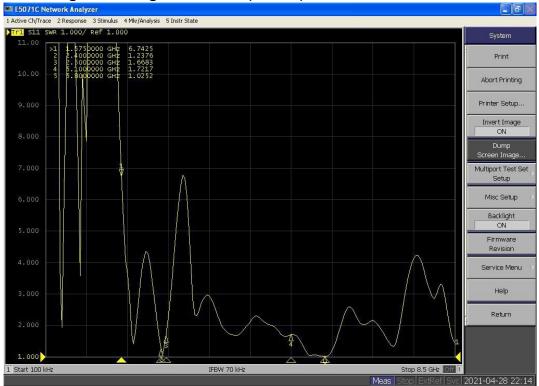


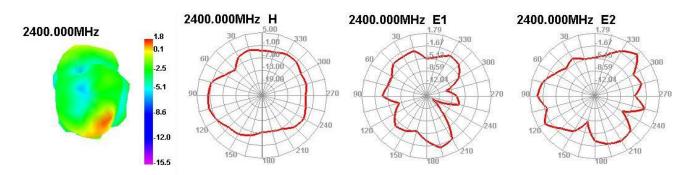
Chart 2 VSWR

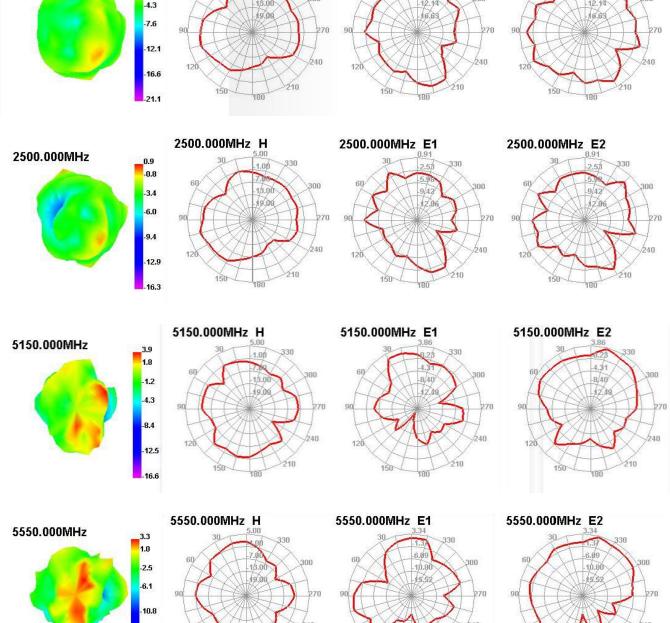
5.2 Efficient and gain.

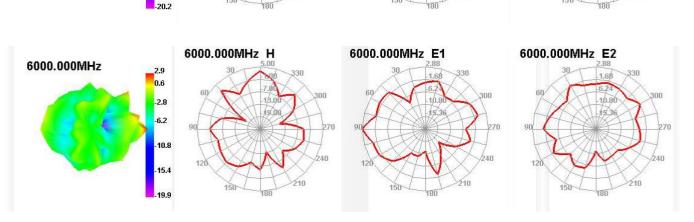
Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi(%)	52.62	45.84	50.47	49.07	48.54	47.06	45.8	46.38	47.21	46.77	44.64
WIFI 2.4G	Gain(dBi)	2.11	1.92	1.94	1.93	1.83	1.88	1.91	2.07	1.79	1.67	1.28

Passive T est For WI FI 5G	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
	Effi(%)	51.27	51.82	48.61	56.1	54.13	54.73	52.27	49.6	47.97	49.88	51.29	49.61	50.96	52.07	50.23
	Gain(dBi)	2.7	2.81	2.63	3.29	3.23	2.93	2.86	2.51	2.34	1.92	2.13	2.04	2.14	2.05	1.92

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



6.Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
1	Test	Temperature: -30°C , Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25 $^{\circ}\text{C}$ 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	T (Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: $35\pm2^{\circ}$ C Humidity: 85% NaCl salt spray :5 \pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	No color change No appear rusting	PASS

7. Assemble type



Chart 3 Assemble type(overall)





Chart 4 Assemble type

8.Product Drawing

