SPECIFICATIONS FOR APPROVAL

Custor	ner Name:	深圳市晶裕达电子有限公司									
Produc	ct Name:	WIFI Antenna									
Produc	ct Model:	SR14									
Part N	umber:	LJF02-22121008-R0A									
Write E	By :	Huxuwen									
Issued	Date:	2022-01-05									
CUST	OMER										
ENGI	NEER R&D DEPT	BUSSINE	SS DEPT		APPROVAL						
LEJIN											
	R&D DEPT	ENGINE	ER DEPT	APPROVAL							
REV MODIFIED DESCRIPTION DATE REI											

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2022/01/05	

Index

1.	Cover
2.	Index · · · · · · · · · · · · · · · · · · ·
3.	Product Specification • • • • • • • • • • • • • • • • • • •
4.	Test Equipment & Conditions • • • • • • • • • • • • • • • • • • •
5.	Test Report • • • • • • • • • • • • • • • • • • •
6.	Reliability Test • • • • • • • • • • • • • • • • • • •
7.	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	≤2.5dB							
B. Material & Mechanical Characteristic	es							
Material of Radiator	FPC(Black),LJWF25A							
Cable Type	Φ1.13mm,L50mm,Black							
Connector Type	IPX1							
Dimension	26.0*16.8mm							
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

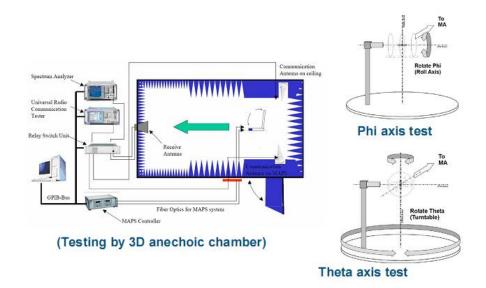


Chart 1 Test topology

Shenzhen Lejin radio frequency technology Co., LTD

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

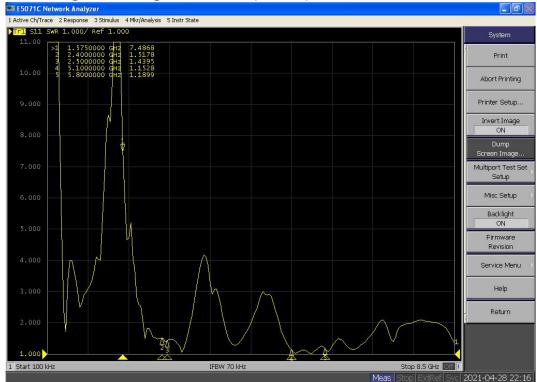


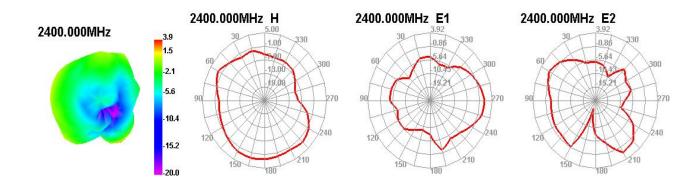
Chart 2 VSWR

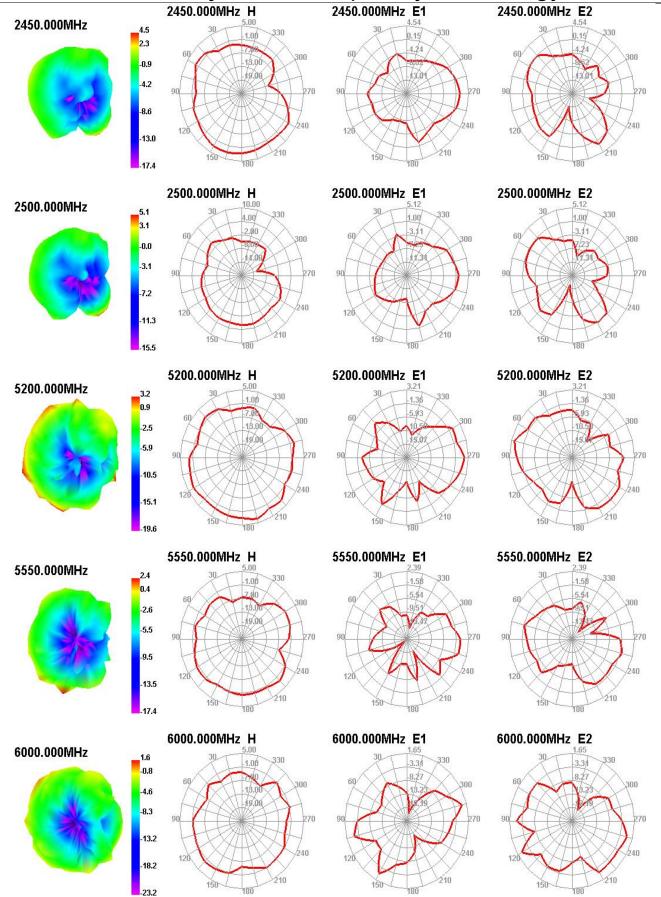
5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi(%)	44.23	50.11	46.89	50.76	46.81	49.61	45.86	51.10	47.41	47.89	41.85
2.4G	Gain(dBi)	1.84	1.92	1.97	2.08	2.05	2.19	1.95	2.07	2.17	2.06	1.80

Passive	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
Test For	Effi(%)	51.22	53.19	50.84	54.64	52.43	54.77	57.28	52.72	54.71	50.55	55.99	51.51	53.22	57.32	51.92
WIFI 5G	Gain(dBi)	2.11	2.25	2.19	2.24	2.22	2.15	2.24	2.18	2.12	2.28	2.23	2.15	2.24	2.21	2.15

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

Chart 3 SR14 assemble type

7. Product Drawing

