SPECIFICATIONS FOR APPROVAL

Customer Name: S	HENZHEN ELECTRON T	ECHNOLOGY CO.,LTD						
		WIFI Antenna						
Product Model:	NW21	95						
	LJF02-2206 ²							
Marie Des	Huxuw							
	2022-06	G-16						
CUSTOMER								
ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVAL						
		terry.wang						
LEJIN								
R&D DEPT	ENGINEER DEPT	APPROVAL						
		mary.Li						

DATE

2022/06/16

REMARK

REV

V1.0

MODIFIED DESCRIPTION

Initial Draft Release

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)	≤2.19dB						
Gain(5.8GHz)	≤2.25dB						
B. Material & Mechanical Characteristic	es						
Material of Radiator	FPC(White),LJWF51AA						
Cable Type	Φ1.13mm,L355mm,Black						
Connector Type	IPX1						
Dimension	40.0*18.0mm						
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

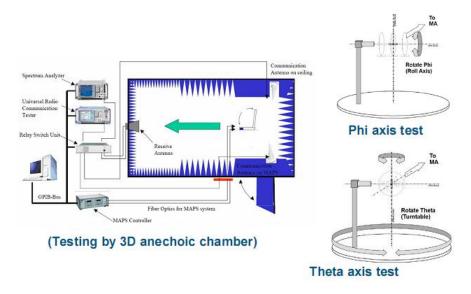


Chart 1 Test topology

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5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

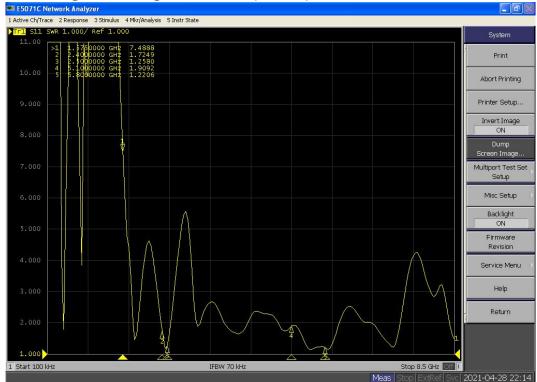


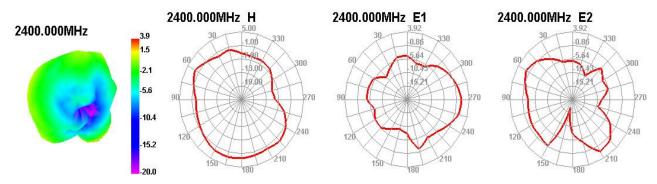
Chart 2 VSWR

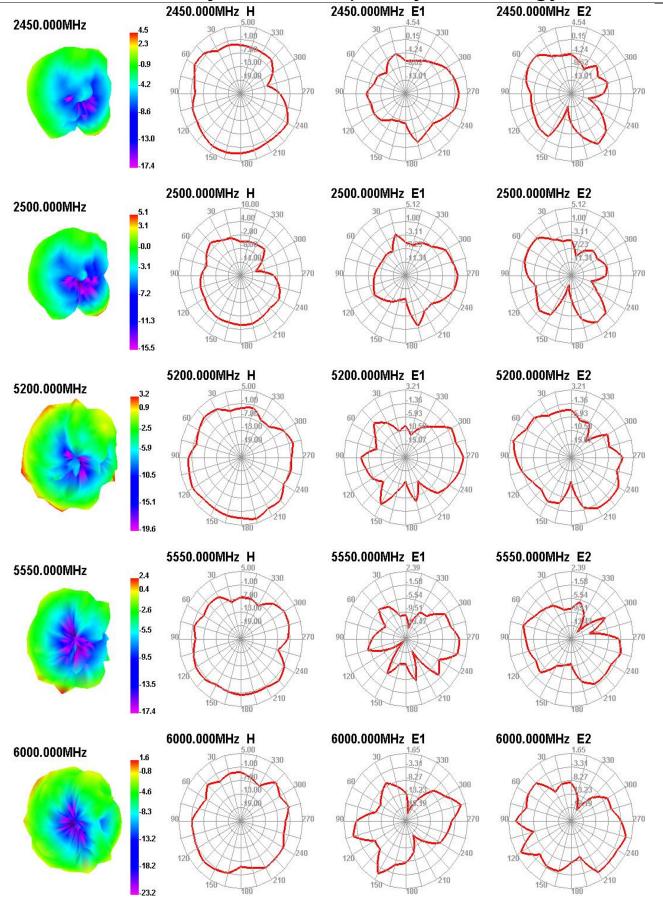
5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	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

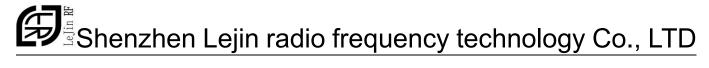
5.3 Radiation pattern.





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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	cation	Result
		Temperature: -30°C, Time:48hrs	No 1	naterial		
	Low Temp.	Test condition: Placing antenna in a Low/High	Tomm & Hum	deformati	on is	PASS
1		Temperature Chamber, keep the temp is $25^\circ\!$	Temp.&Hum	allowed.		
1	Storage Test	65% for one hour, then step-down the temp. to $-30{}^\circ\!{}{}^\circ\!{}^\circ$ in one	Tester	Electronic	2	I ASS
	1681	hour, store antenna for44 hours; step-up temp to 25 $^\circ \! \mathbb{C}$,test	1 ester	Performa	nce is	
		antenna after 2 hours.		ok .		
		Temperature: 85℃ Humidity: 85% RH Time:48hrs		No 1	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	:	allowed.		PASS
_	Humid	65% for one hour, then step-up the temp. to $80~{}^\circ\!\mathrm{C}$ and the	Tester	Electronic	2	rass
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	1 ester	Performa	nce is	
		step-down tempto $25^\circ\!\!\mathrm{C}$,test antenna after 2 hours.		ok .		
	Salt-Spray 6	Placing antenna in the Salt-Spray Tester ,set the test	Calt Camer	No color	change	
3		condition ,Temp: $35\!\pm\!2^\circ\!$	Salt-Spray Tester	No	appear	PASS
	pray Test	\pm 1%.PH value :6.5~7.2 Testtime:24hours	1 68161	rusting		

7. Assemble type

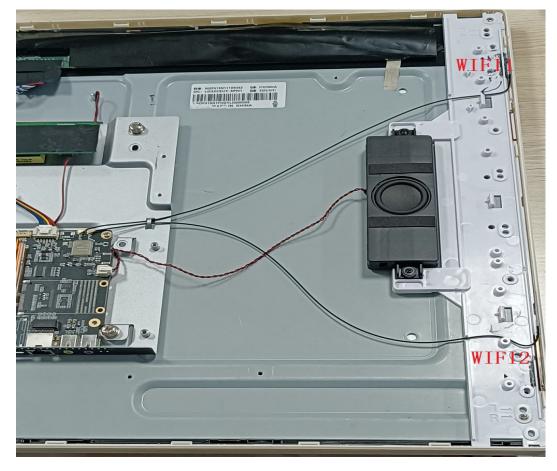


Chart 3 NW2195 assemble type







Chart 4 NW2195 WIFI1 assemble type

Chart 5 NW2195 WIFI2 assemble type

8.Product Drawing

