SPECIFICATIONS FOR APPROVAL

Customer Name: SHENZHEN ELECTRON TECHNOLOGY CO., LTD

Product Name:	WIFI Antenna	
Product Model:	NW3295	
Part Number:	LJF02-22061610-R0A	
Write By :	Huxuwen	
Issued Date:	2022-06-16	

CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVAL

LEJIN

R&D DEPT	ENGINEER DEPT	APPROVAL

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2022/06/16	

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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)	≤2.0dBi
Gain(5.8GHz)	≤2.5dBi
B. Material & Mechanical Characteristic	2S
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

Agilent 8753D/5071C

R&S CMW500 -PT

2.HSPA and LTE protocol test set

3.Communications Test Set

4.3D Chamber Test System

Agilent 8960

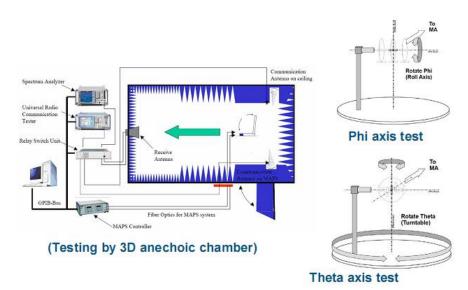


Chart 1 Test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

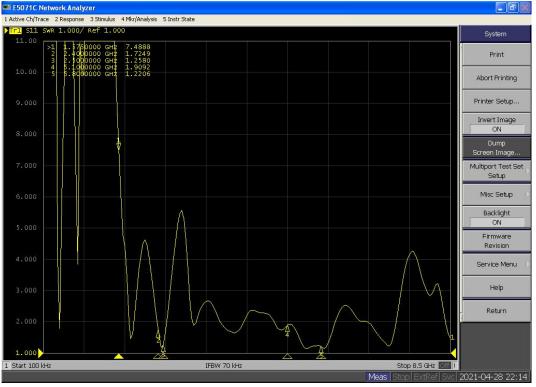


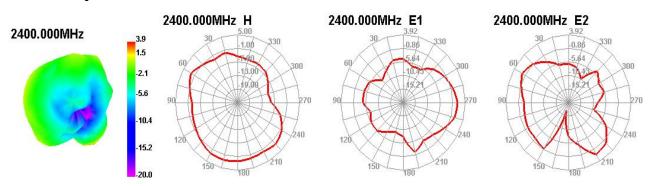
Chart 2 VSWR

5.2 Efficient and gain.

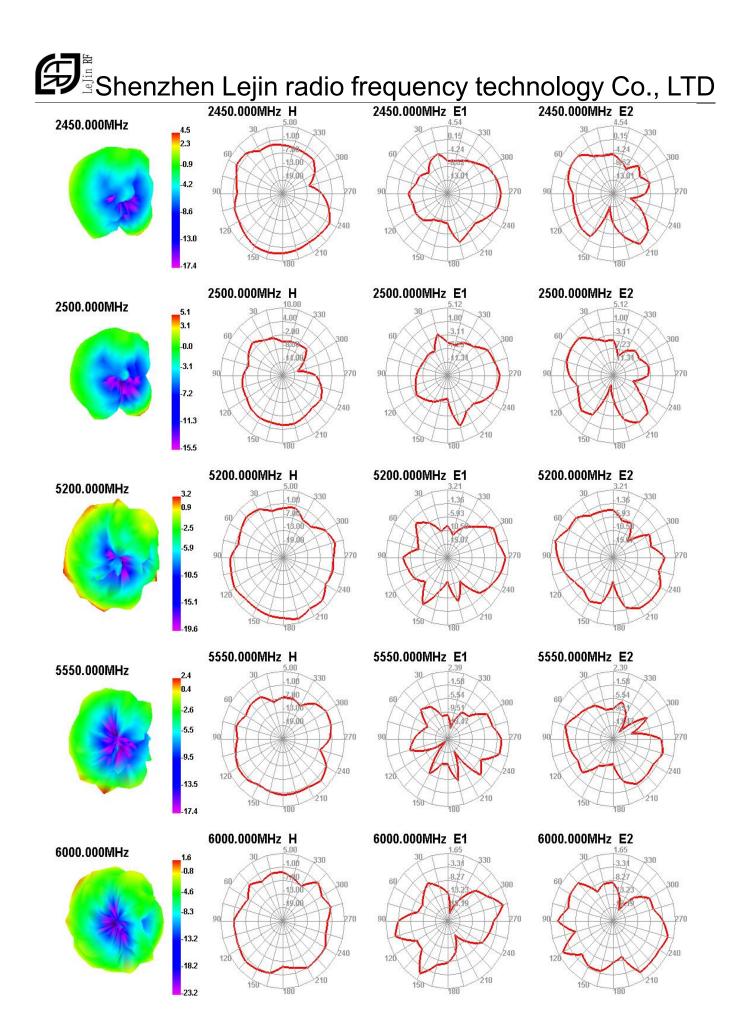
Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For	Effi(%)	44.23	50.11	46.89	50.76	46.81	49.61	45.86	51.10	47.41	47.89	41.85
2.4G	Gain(dBi)	1.84	1.92	1.97	1.96	2.00	1.99	1.95	1.97	1.89	1.94	1.80

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	2.50	2.19	2.24	2.22	2.15	2.24	2.18	2.12	2.28	2.23	2.15	2.24	2.50	2.15

5.3 Radiation pattern.



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6.Reliability Test

Test Item		Test condition	Equipment	Specification	Result
		Temperature: -30°C, Time:48hrs Test condition: Placing antenna in a Low/High		No materia deformation is	1 1
1		Temperature Chamber, keep the temp is $25 ^{\circ}\text{C}$ and humidity is	Temp.&Hum	allowed.	PASS
	Test	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	Tester	Electronic Performance is	5
		antenna after 2 hours.		ok .	
		Temperature: 85°C Humidity: 85% RH Time:48hrs		No materia	1
	High	Test condition: Placing antenna in a Low/High	Tama 6-11	deformation is	6
2	Temp./High	Temperature Chamber, keep the temp is $25^\circ\!\!\mathbb{C}$ and humidity is	Temp.&Hum	allowed.	DAGG
2	Humid	65% for one hour, then step-up the temp. to 80 $^\circ\!\!{ m C}$ and the	1. Taataa	Electronic	PASS
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	Tester	Performance is	s
		step-down tempto 25°C,test antenna after 2 hours.		ok .	
		Placing antenna in the Salt-Spray Tester ,set the test	G 14 G	No color change	
3	Salt-Spray 6	condition , Temp: $35{\pm}2^{\circ}$ C Humidity: 85% NaCl salt spray :5	Salt-Spray	No appea	rPASS
	pray Test	\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting	

7.Assemble type

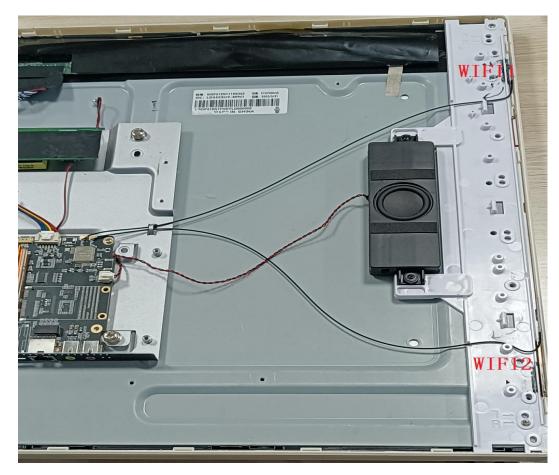


Chart 3 NW3295 assemble type

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Chart 4 NW3295 WIFI1 assemble type

Chart 5 NW3295 WIFI2 assemble type

8. Product Drawing

\square		1	J		C	B	Α	\overline{A}
	Rev	A	2.Backi 3.Toler 4.ROH	Remark:				
-		New d	 2.Backing in behind:3M300LSE. 3.Tolerance: Cuting die:±0.1mm;Circuit on FPC:±0.05mm; others are ±0.05mm. 4.ROHS:(Pb,Hg,Cr+6,PBBs,PBDEs),<1000ppm; Cd,<100ppm. 	rk:			RoHS Compliant G P	
		New drawing	nind:3M3 uting die ,Cr+6,P					┢
2	Des		800LSE. 300LSE. 9:±0.1mm BBS,PBI					2
	Description		n;Circuit DEs),<10	2		5.00 -	7	
			on FPC:)00ppm;					
ω			±0.05mn Cd,<100	- - - - - - - - - - - - - - - - - 		LJWF51AA		ယ
	De		n; other)ppm.	G				$\left \right $
4	Date H		s are ±0.	Ą			4 0.00	4
	Remark			1.13 coax				
	atic	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		Φ1.13 coaxial cable,black, KCC-1 connector Revise 1 record 2	355.			
υ			┝─── ┥	black, KCC Revise	355.0±3.0			ъ
		Angle +0. 5°	EN ZHEN Third Angle P 0.02 Pa	e C-1 conn	Omm I	$\bigvee_{i=1}^{i}$		H
6	Treatment	Part No. Material	E Project Part Name	ector				6
	LJF02-22061610-R0A	NW3295	LEJIN RAD Project ELC ATT NAME WIFI ANT		<u>_</u>			
			10					
7	Unit mm	Checked by Approved by	FREQUI Date Designed by					7
	Scale	RF MD	FREQUENCY CO					
∞	FIT Rev		<u>CO.,</u>					8
	A		LTD		0	ω	А	
∠								