SPECIFICATIONS FOR APPROVAL

Customer Name: SHENZHEN ELECTRON TECHNOLOGY CO., LTD

Product Name:	WIFI Antenna(WIFI2)

Product Model: WF3205T

Part Number: LJF02-22072608B-R0A

Write By : Huxuwen

Issued Date: 2022-07-26

CUSTOMER

ENGINEER R&D DEPT	BUSSINESS DEPT	APPROVAL
		刘建红

LEJIN

R&D DEPT	ENGINEER DEPT	APPROVAL

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2022/07/26	

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3.Product Specification

A. Electrical Characteristics	A. Electrical Characteristics						
Frequency	2400MHz ~2500 MHz						
	5150MHz ~5850 MHz						
VSWR	<2.0						
Efficiency	≥45%						
Impedance	50Ohm						
Polarization	Linear						
B. Material & Mechanical Characteristic	CS						
Material of Radiator	PCB(Black)						
Cable Type	Φ1.13mm,L340mm,Black						
Connector Type	IPX1						
Dimension	49.0*14.mm						
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	
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3.Communications Test Set

4.3D Chamber Test System

Agilent 8960

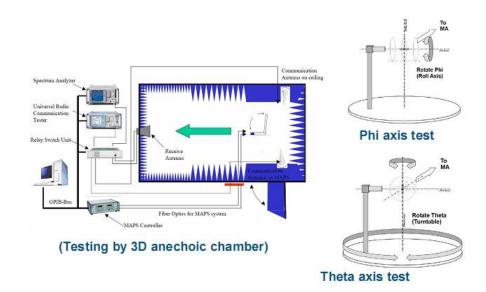


Chart 1 Test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

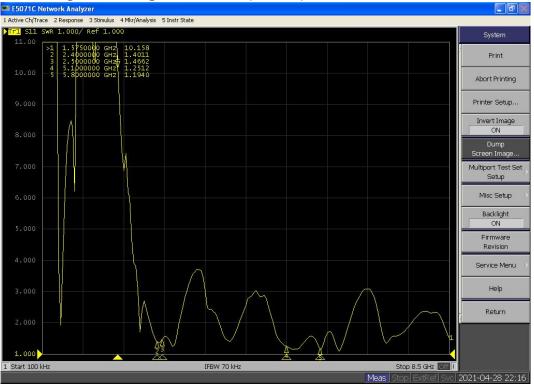
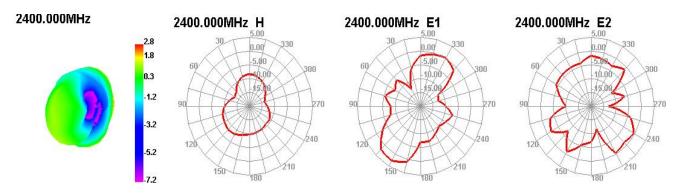


Chart 2 VSWR

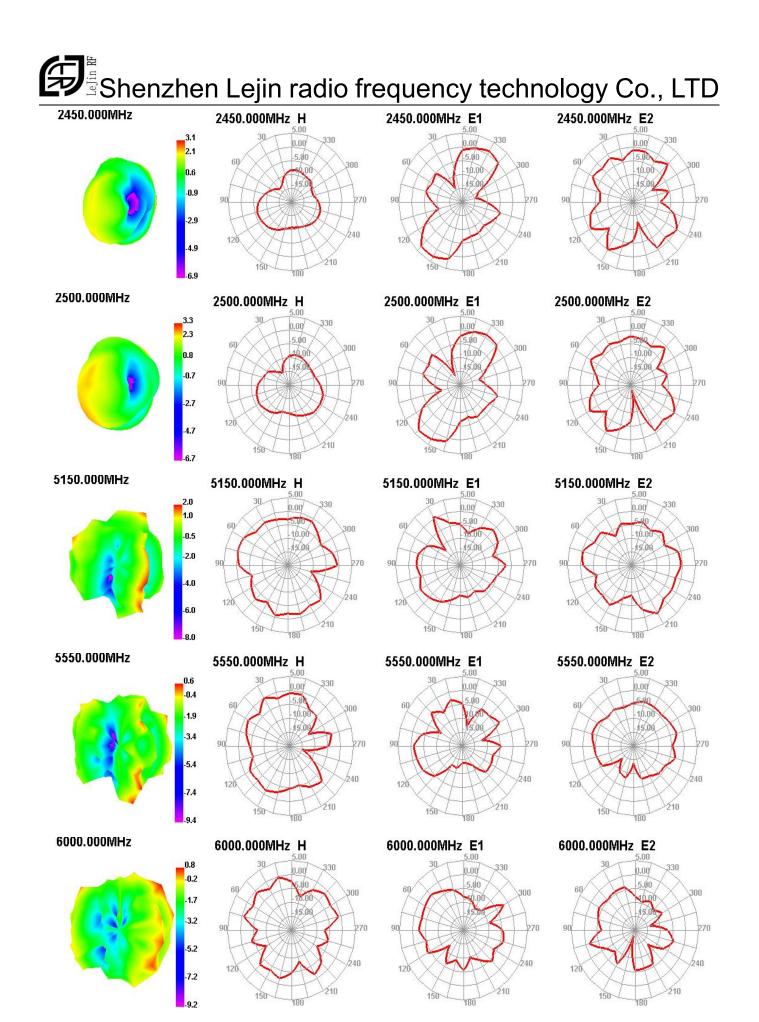
5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	242	20 24	30	2440	2450	24	160	2470	2480	2490	2500)		
Test For	Effi(%)	<mark>47.30</mark>	51.90	55.0	01 52	.64	54.36	56.34	58	.36	52.17	50.57	51.87	48.3	9		
2.4G	Gain(dBi)	2.17	2.09	2.1	9 2.	13	2.11	2.26	2.	23	2.24	2.08	2.12	2.05			
Passivo	Freq(MHz)	5150	5200	5250	5300	5350	0 540	00 5	450	5500	5550	5600	5650	5700	5750	5800	5850
Test For			53.00					10	22.03		1.11.11.11.11.11.11	54.79	10.55		10042000	1.00.000	10000000
WIFI 5G	Gain(dBi)	2.23	2.39	2.32	2.37	2.35	2.4	18 2	.58	2.31	2.55	2.48	2.57	2.48	2.37	2.34	2.28

5.3 Radiation pattern.



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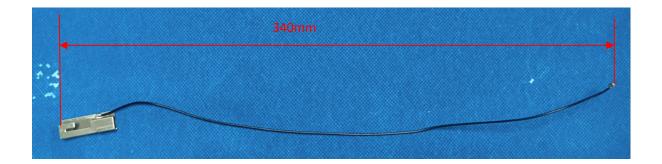
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6.Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
		Temperature: -30°C, Time:48hrs		No materia	.1
	Low Temp.	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformation i	s
1	1	Temperature Chamber, keep the temp is 25 $^\circ\!\mathbb{C}$ and humidity is	;	allowed.	PASS
1	Storage Test	65% for one hour, then step-down the temp. to -30 $^\circ C$ in one	ı. Tester	Electronic	r ASS
	Test	hour, store antenna for44 hours; step-up temp to 25 $^\circ\!\!\!\!\!\!^\circ$,test	rester	Performance i	s
		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	Temp.&Hum	deformation i	s
2	Temp./High	Temperature Chamber, keep the temp is 25 $^\circ\!\mathbb{C}$ and humidity is	;	allowed.	PASS
2	Humid	65% for one hour, then step-up the temp. to 80 $^\circ\!\!\mathbb{C}$ and the	ı. Tester	Electronic	r ASS
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	I ESIEI	Performance i	s
		step-down tempto 25°C,test antenna after 2 hours.		ok .	
	Salt Sumary (Placing antenna in the Salt-Spray Tester ,set the test	Salt Sumary	No color change	
3	Salt-Spray 6 pray Test	condition , Temp: $35{\pm}2^\circ C$ Humidity: 85% NaCl salt spray :5	Salt-Spray	No appea	rPASS
		\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting	

7.Assemble type





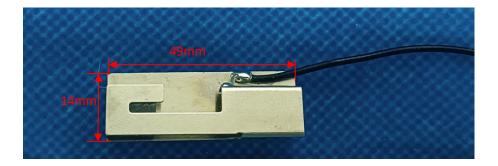


Chart 3 WF3205T assemble type