SPECIFICATIONS FOR APPROVAL

Customer Name:	深圳乐木骆科技有限公司						
Product Name:	uct Name: WIFI Antenna						
Product Model:	PLAF1	09					
Part Number:	LJF02-23082408-R0A						
Write By :	Huxuwen						
ssued Date:	2023-08-24						
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	2023/08/24	
V1.0	Update WIFI BAND	2024/01/22	

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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)	≤2.69dbi					
B. Material & Mechanical Characteristics						
Material of Radiator FPC(Green),70B						
Cable Type	Φ1.13mm,L145mm,Black					
Connector Type	IPX1					
Dimension	48.0*8.0mm					
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

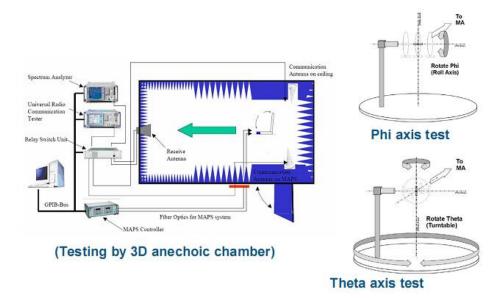


Chart 1 Test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

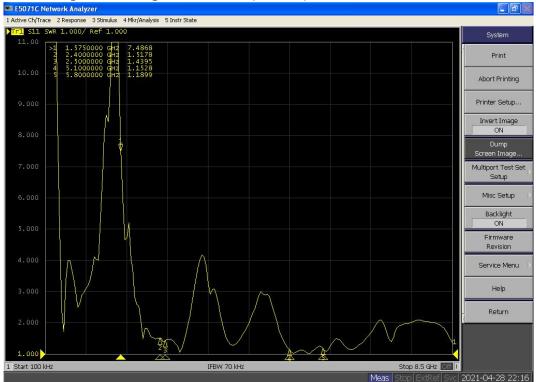
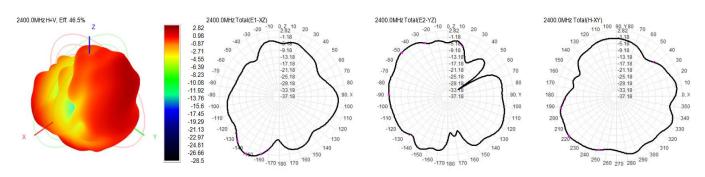


Chart 2 VSWR

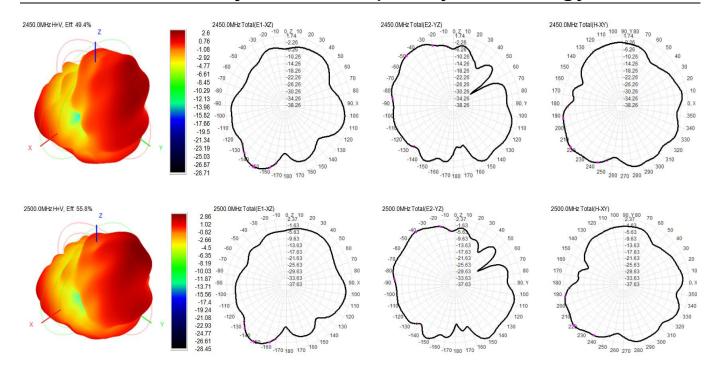
5.2 Efficient and gain.

	Freq(MHz)											
Test	Effi(%)	46.49	47.08	45.74	46.32	48.76	49.42	51.51	51.61	51.66	53.68	55.79
2.4GHz	Gain(dBi)	2.52	2.61	2.09	2.11	2.47	2.60	2.53	2.43	2.43	2.69	2.46

5.3 Radiation pattern.



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6.Reliability Test

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

7. Assemble type



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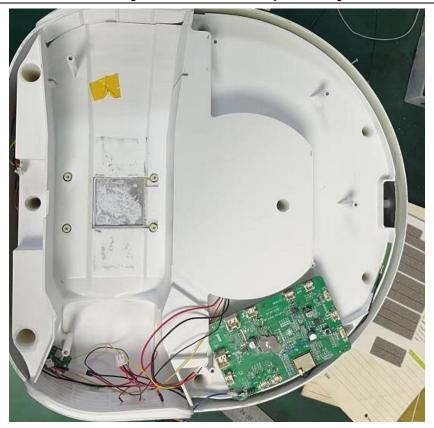


Chart 3 PLAF301 assemble type

8.Product Drawing

