Part acceptance form

Supplier: Shenzhen Lejin Radio Frequency Technology Co., LTD

Material name: Antenna

Bom number: 3102070202

Specifications and Models: FPC antenna L300_2.4G_Lejin antenna

Supplier's Material number: LJF02-22030208B-R0A

Application date: 2022-06-29

data OK reliability OK

Department to sign: appearance OK size OK

assembly OK function OK

List of Acknowledgement

- 1. Function introduction and product specifications
- 2. Certificate of raw material /MSDS
- 3. Structural drawings
- 4. FAI full-size measurement report/attached self-evaluation
- 5. Reliability test report
- 6. SGS of raw materials shall be confirmed within the validity period of 1 year
- 7. Environmental Statement
- 8. Relevant certification certificates

Note:

The part acceptance letter shall include but not limited to the above information. If there are other requirements, it shall be supplemented, such as CPK report of part acceptance, process roadmap, QC engineering drawing, BOM, inspection specification on parts, product packaging specification, FMEA, etc. In addition, it is necessary to verify the supplier's manufacturing capability, quality control ability, and keep original records for the customer to acknowledge the supplier's parts.



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3. Product Specification

A. Electrical Characteristics					
Frequency	2400MHz ~2500 MHz				
VSWR	<2.0				
Efficiency	>40%				
Impedance	50Ohm				
Polarization	Linear				
Gain	≤2.24dB				
B. Material & Mechanical Characteristics					
Material of Radiator	FPC(Black),LJWF28A				
Cable Type	Ф1.13mm,L300mm,Black				
Connector Type	IPX1				
Dimension	25.0*13.0mm				
C. Environmental					
Operation Temperature	- 30 °C ~ + 80 °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

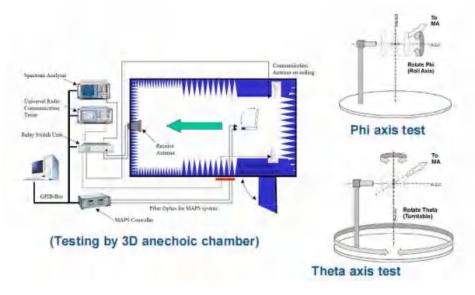


图 1 Test topology



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5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

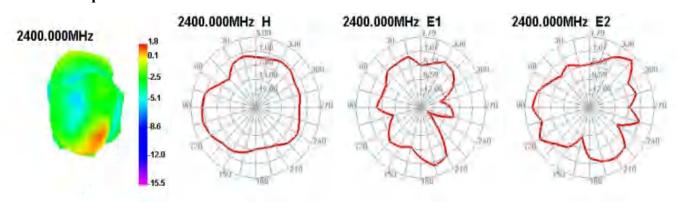


图 2 VSWR

5.2 Efficient and gain(estimating conducted by Lejin in Jan,2021,using 3D drawing document that provided by Creality.)

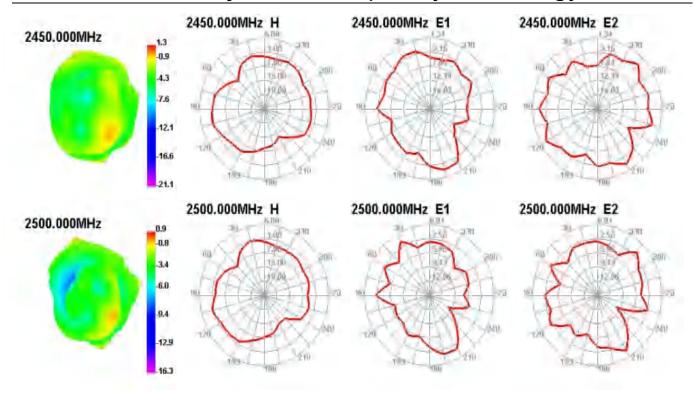
	Freq(MHz)		2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For WIFI	Effi(%)	58.62	51.84	56.47	55.07	54.54	53.06	51.80	52.38	53.21	52.77	50.64
	Gain(dBi)		2.04	2.06	2.05	1.94	1.99	2.02	2.19	1.90	1.77	1.36

5.3 Radiation pattern.





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6.Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
1	Storage Test	Temperature Chamber, keep the temp is 25 C and	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
2	Temp./High Humid Storage Test	Temperature: 85°C Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25°C and humidity is 65% for one hour, then step-up the temp. to 80°C and the humidity up to 85% in one hour, store antenna for 44 hours; step-down tempto 25°C, test antenna after 2 hours.	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
3	6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: $35\pm2^\circ$ C Humidity: 85% NaCl salt spray :5 $\pm1\%$.PH value :6.5 \sim 7.2 Testtime:24hours	Salt-Spray Tester	No color change No appear rusting	PASS

