Part acceptance form

Supplier: Shenzhen Lejin Radio Frequency Technology Co., LTD

Material name: FPC 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.

3. Product Specification

A. Electrical Characteristics					
Frequency	2400MHz ~2500 MHz				
VSWR	<2.0				
Efficiency	≥40%				
Impedance	50Ohm				
Polarization	Linear				
Gain(2.4GHz)	≤2.21dBi				
B. Material & Mechanical Characteristic	es				
Material of Radiator	FPC, LJWF28A				
Cable Type	Ф1.37mm, L300mm				
Connector Type	IPX1				
Dimension	35.0*18.2mm				
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

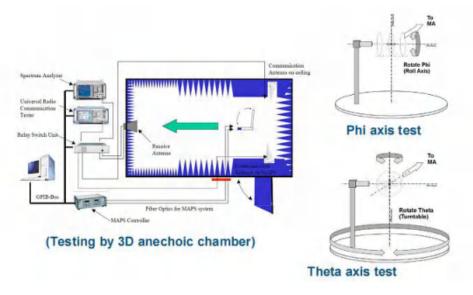


Chart 1 Test topology

Shenzhen Lejin radio frequency technology Co., LTD

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

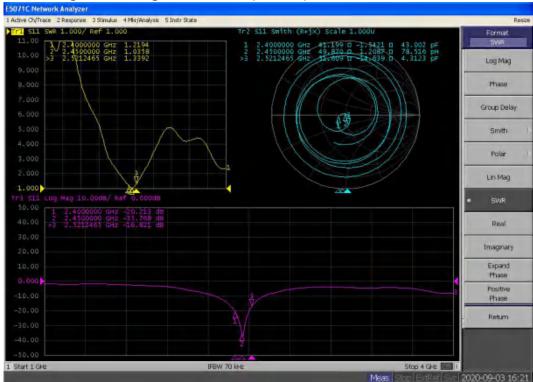
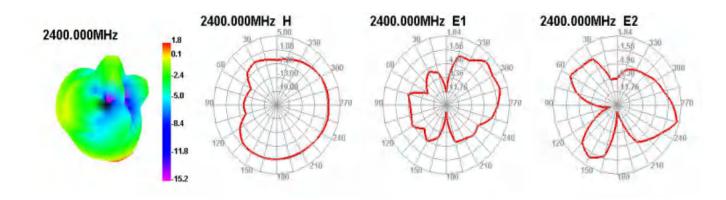


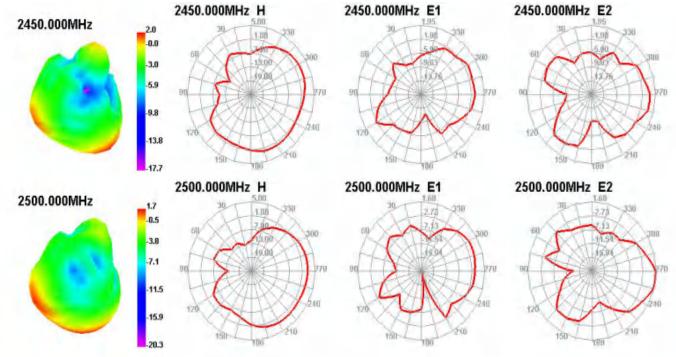
Chart 2 passive chart

5.2 Efficient and gain.

Passive				2420								
Test For	Effi(%)	51.51	58.11	55.07	59.68	55.17	59.43	56.59	60.01	52.68	52.25	49.85
2.4G	Gain(dBi)	1.86	1.94	1.99	2.10	2.07	2.21	1.97	2.09	2.19	2.08	1.82

5.3 Radiation pattern.





6.Reliability Test

	Test Item Test condition		Equipment	Specification		Result
Lo		Temperature: -30°C, Time:48hrs		No 1	naterial	
		Test condition: Placing antenna in a Low/High	Т 0 П	deformati	on is	
		Temperature Chamber, keep the temp is 25 °C and humidity is	Temp.&Hum	allowed.		DACC
1	Storage Test	65% for one hour, then step-down the temp. to $-30{}^\circ\!\mathrm{C}$ $$ in one	1. Tester	Electronic	2	PASS
	Test	hour, store antenna for44 hours; step-up temp to 25 $^\circ\mathrm{C}$,test	1 ester	Performai	nce is	
		antenna after 2 hours.		ok .		
2		Temperature: 85℃ Humidity: 85% RH Time:48hrs		No 1	naterial	
	High	Test condition: Placing antenna in a Low/High	Temp.&Hum	deformati	on is	
	Temp./High	Temperature Chamber, keep the temp is $25^\circ\!$:	allowed.		PASS
	Humid	65% for one hour, then step-up the temp. to $80^\circ\!$	Tester	Electronic	2	rass
	Storage Test	humidity up to 85% in one hour, store antenna for 44 hours;	1 ester	Performai	nce is	
		step-down tempto 25 ℃,test antenna after 2 hours.		ok .		
3	Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test	Calt Chuar	No color	change	
		condition ,Temp: $35\!\pm\!2^\circ\!$	Salt-Spray	No	appear	PASS
		\pm 1%.PH value :6.5~7.2 Testtime:24hours	Tester	rusting		

