

# 零件承认书

供应商: 深圳市乐进射频科技有限公司物料名称: 2.4GHz 天线物料编码: 3102070256规格型号: FPC 天线 L300 2.4G, 2.24dBi 乐进天线供应商料号: LJF02-23010308-R0A申请日期: 2023-03-08资料 OK NG 可靠性 OK NG部门会签: 外观 OK NG 尺寸 OK NG装配 OK NG 功能 OK NG

供应商确认			
核准	工程	制作	签章

创想三维确认			
核准	研发/工程	品质	签章

确认结果: 合格 不合格 其它





## 5. Test Report

### 5.1 Voltage Standing Wave Ratio(VSWR).

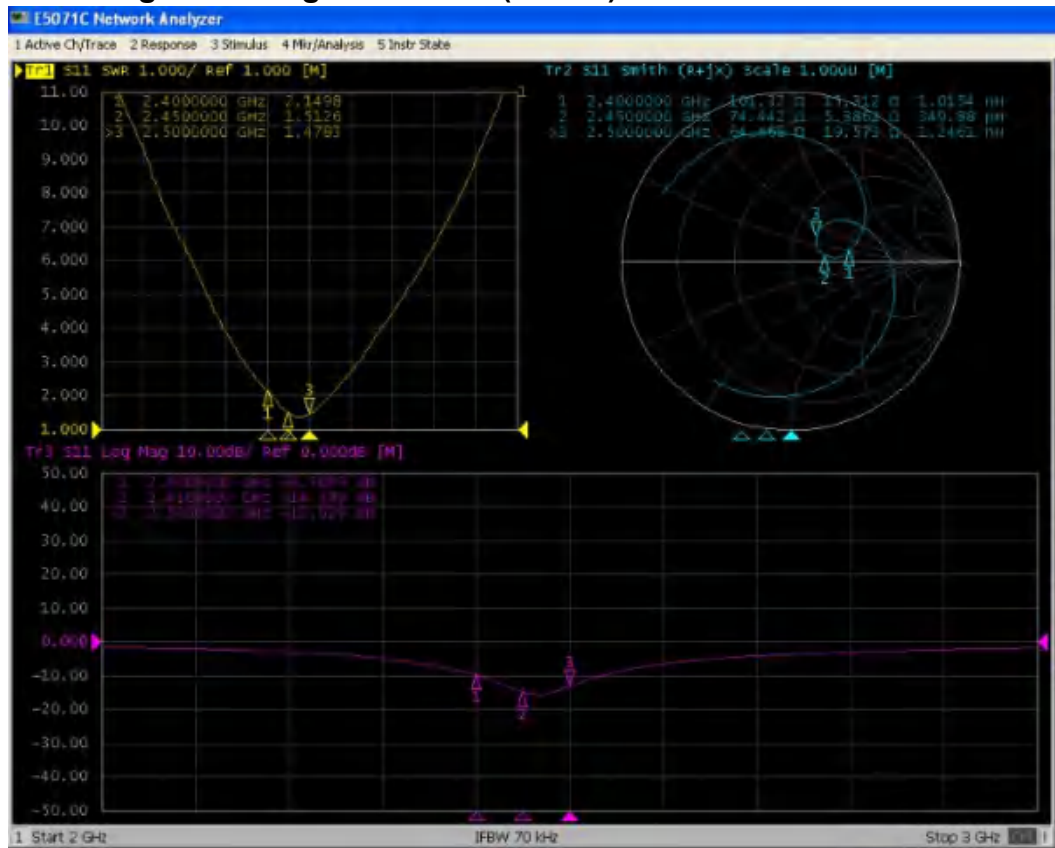
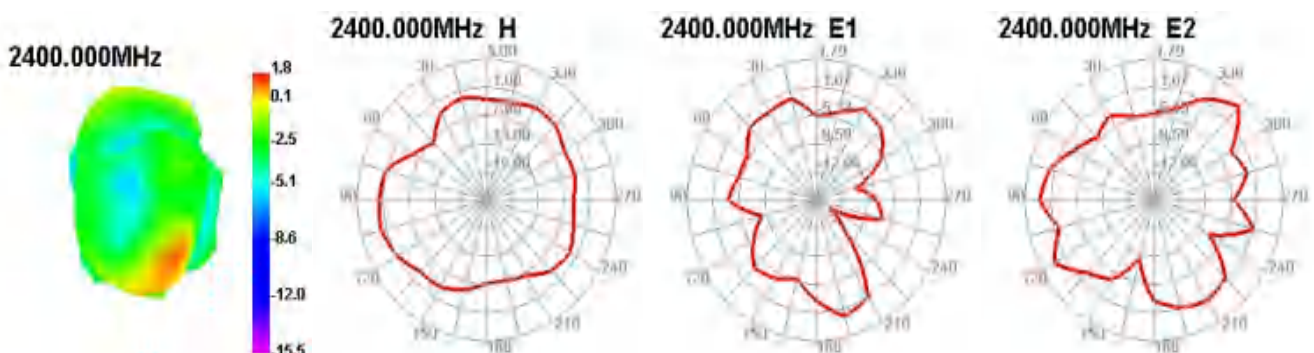


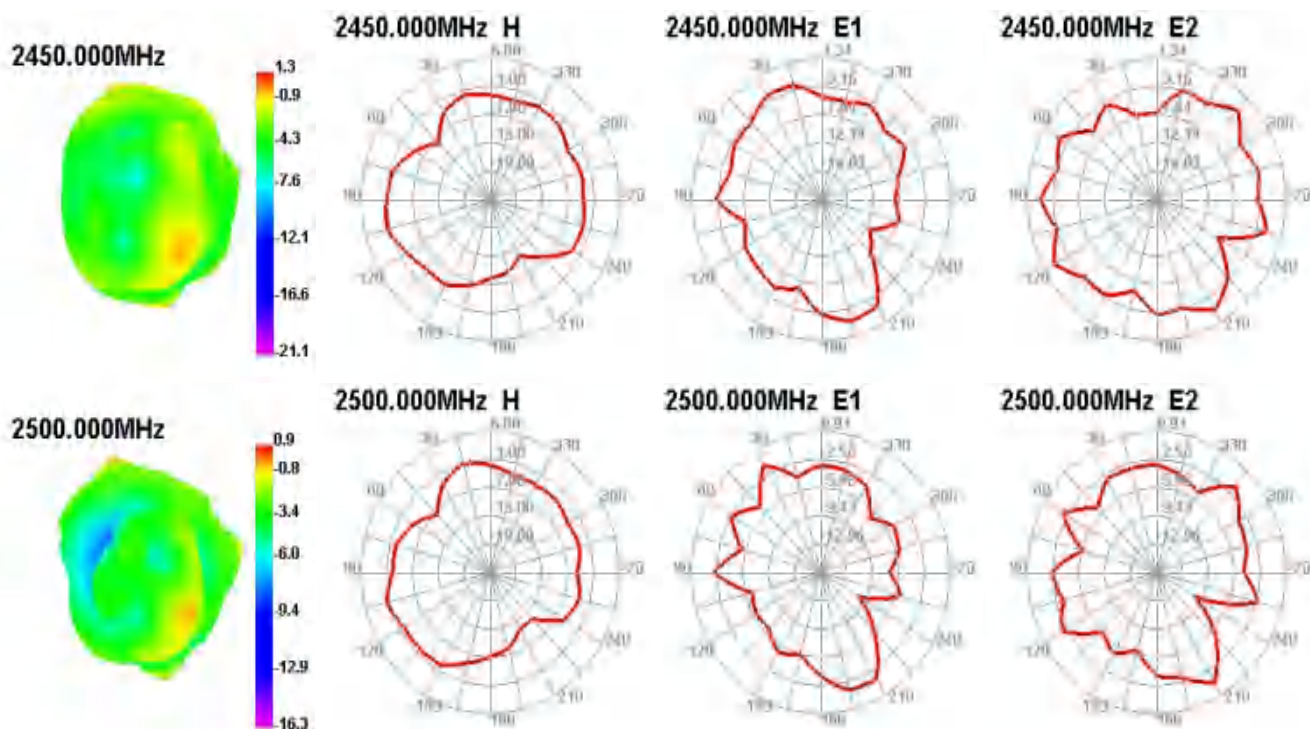
图 2 VSWR

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

Passive Test For WIFI 2.4G	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	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)	2.24	2.04	2.06	2.05	1.94	1.99	2.02	2.19	1.90	1.77	1.36

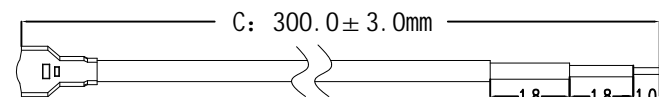
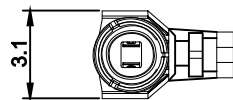
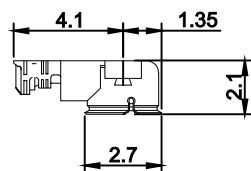
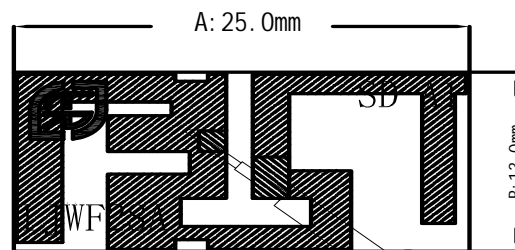
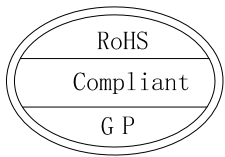
### 5.3 Radiation pattern.





## 6. Reliability Test

Test Item	Test condition	Equipment	Specification	Result
1 Low Temp. Storage Test	Temperature: -30℃ , Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-down the temp. to -30℃ in one hour, store antenna for 44 hours; step-up temp to 25℃, test antenna after 2 hours.	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2 High Temp./High Humid Storage Test	Temperature: 85℃ Humidity: 85% RH Time:48hrs Test condition: Placing antenna in a Low/High Temperature Chamber, keep the temp is 25℃ and humidity is 65% for one hour, then step-up the temp. to 80℃ and the humidity up to 85% in one hour, store antenna for 44 hours; step-down temp to 25℃ ,test antenna after 2 hours.	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
3 Salt-Spray 6 pray Test	Placing antenna in the Salt-Spray Tester ,set the test condition , Temp: 35±2℃ Humidity: 85% NaCl salt spray :5±1%.PH value :6.5~7.2 Testtime:24hours	Salt-Spray Tester	No color change No appear rusting	PASS



Φ1.37 coaxial cable, Gray, KCC-1 connector

**Remark:**

- 1.FPC material:Electrolytic copper.
- 2.Backing in behind:3M300LSE.
- 3.Tolerance: Cutting die:±0.1mm;Circuit on FPC:±0.05mm; others are ±0.05mm.
- 4.ROHS:(Pb,Hg,Cr+6,PBBs,PBDEs),<1000ppm; Cd,<100ppm.



SHEN ZHEN LEJIN RADIO FREQUENCY CO., LTD

⊕	Third Angle	Project	Creativity 3D	Date	2018-08-09							
0~10	±0.05	○	0.02	Part Name	2.4G ANT		Designed by					
10~18	±0.10	◎	∅0.03	Part No.			Checked by	MD				
18~30	±0.12	⊥	0.02	Material				RF				
30~40	±0.15	∕	0.04	Treatment	LJF02-23010308-R0A		Approved by					
40~	±0.20	Angle	±0.5°	Location			Unit	mm	Scale	FIT	Rev	A

A	New drawing				
Rev	Description	Date	Remark		