



Lejin RF

Shenzhen Lejin radio frequency technology Co., LTD

SPECIFICATIONS FOR APPROVAL

Customer Name: 深圳金亚太科技有限公司

Product Name: 2.4GHz/5GHz 天线

Product Model: ATV586MAX/APC395X3

Part Number: LJF02-20092203-R0A

Write By : 胡雪文

Issued Date: 2020-09-22

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	2020/09/22	
V1.1	Support new model APC395X3	2021/06/29	
V1.2	Add radiation pattern	2024/10/28	



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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)	≤1.82dBi
Gain(5.8GHz)	≤2.81dBi
B. Material & Mechanical Characteristics	
Material of Radiator	FPC(Yellow),LJWF20L
Cable Type	Φ1.13mm,L110mm,Black
Connector Type	IPX1
Dimension	26.0mm*21.5mm
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

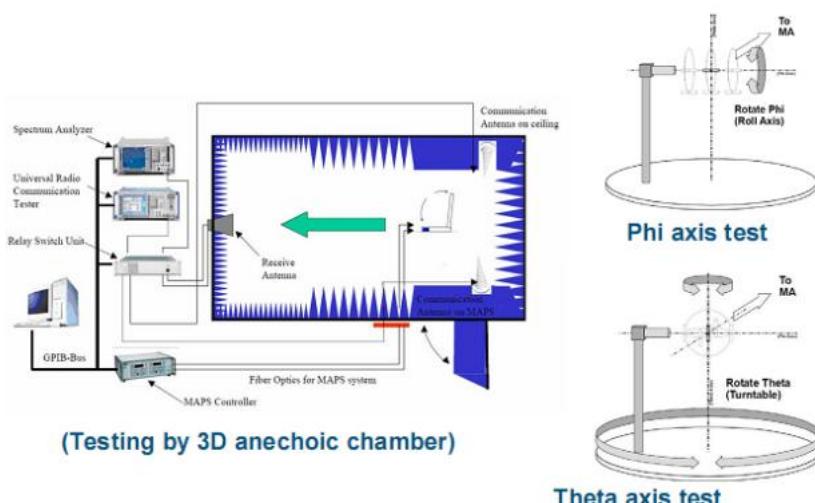


Chart 1 Test topology

5. Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

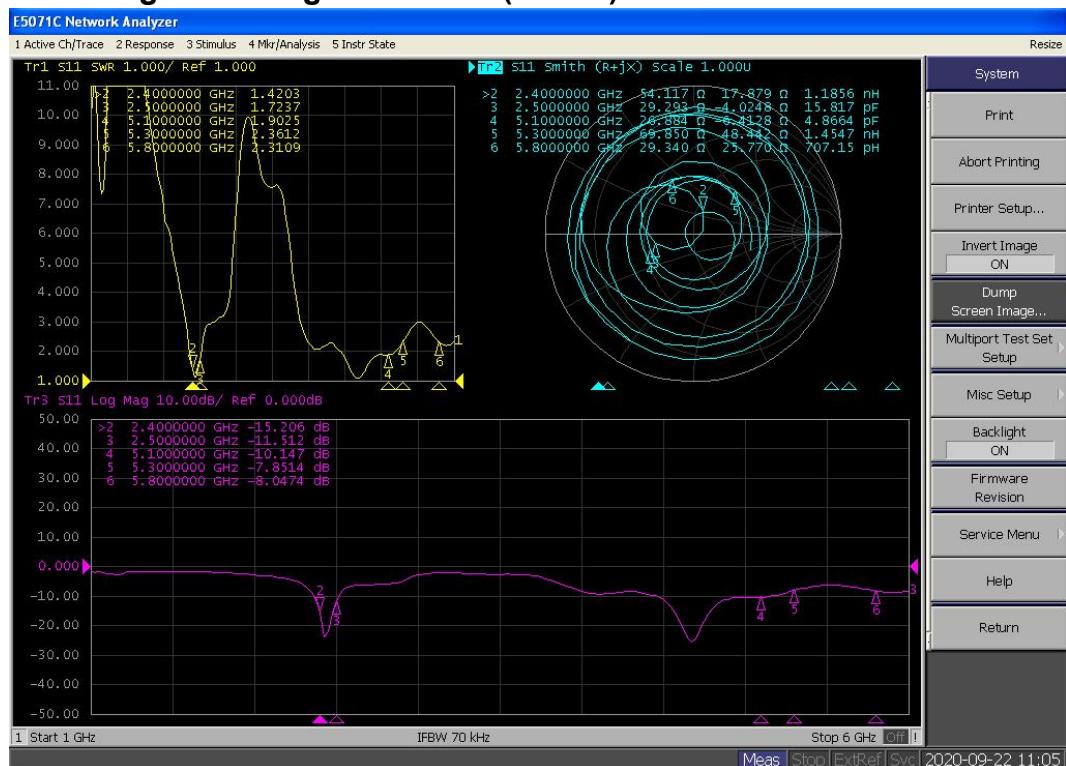


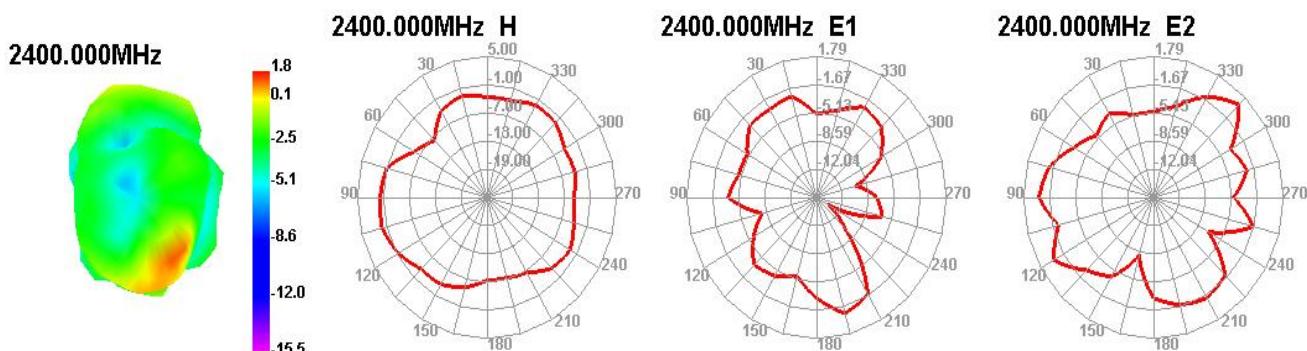
Chart 2 VSWR

5.2 Efficient and gain.

Passive Test 2.4GHz	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	Effi(%)	52.18	45.17	44.40	46.98	50.61	49.28	48.90	51.86	50.60	45.73	49.19
	Gain(dBi)	1.71	1.00	1.00	1.39	1.76	1.67	1.66	1.82	1.77	1.32	1.78

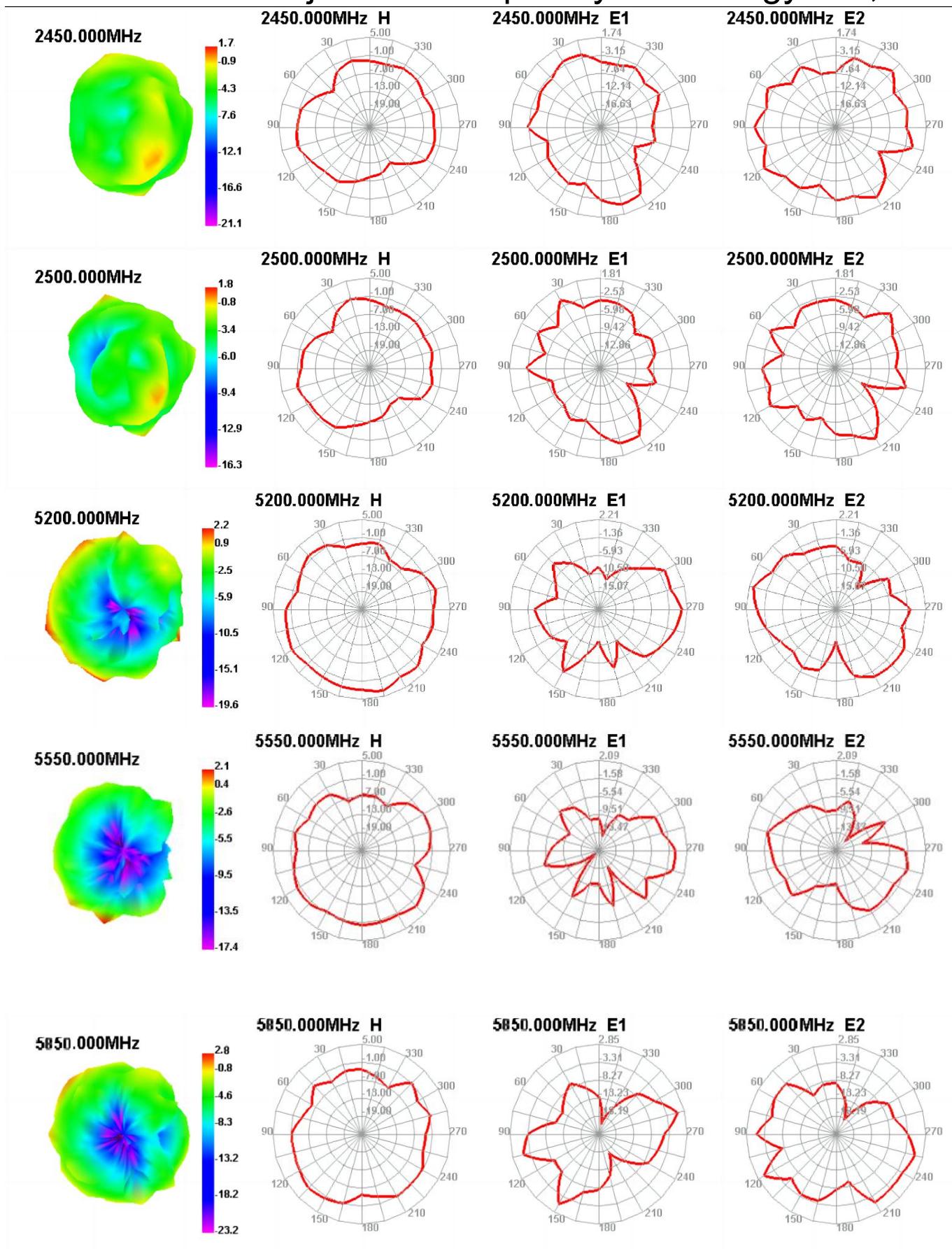
Passive Test For 5G	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
	Effi(%)	44.83	46.18	46.12	46.21	46.36	44.38	44.11	44.91	45.67	45.82	45.99	46.75	46.90	43.18	45.54
	Gain(dBi)	2.66	2.13	2.41	2.39	2.62	2.27	2.55	2.09	2.00	2.72	2.08	2.62	2.21	2.07	2.81

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 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-down the temp. to -30°C in one hour, store antenna for 44 hours; step-up temp to 25 °C, test antenna after 2 hours.	Temp.&Hum. Tester	No material deformation is allowed. Electronic Performance is ok .	PASS
2	High 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 temp to 25 °C ,test antenna after 2 hours.	Temp.&Hum. 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 °C 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

7. Assemble type

8. Product Drawing



深圳市博格斯通信技术有限公司
shenzhen bogesi communication technology co.,ltd

样品图片：



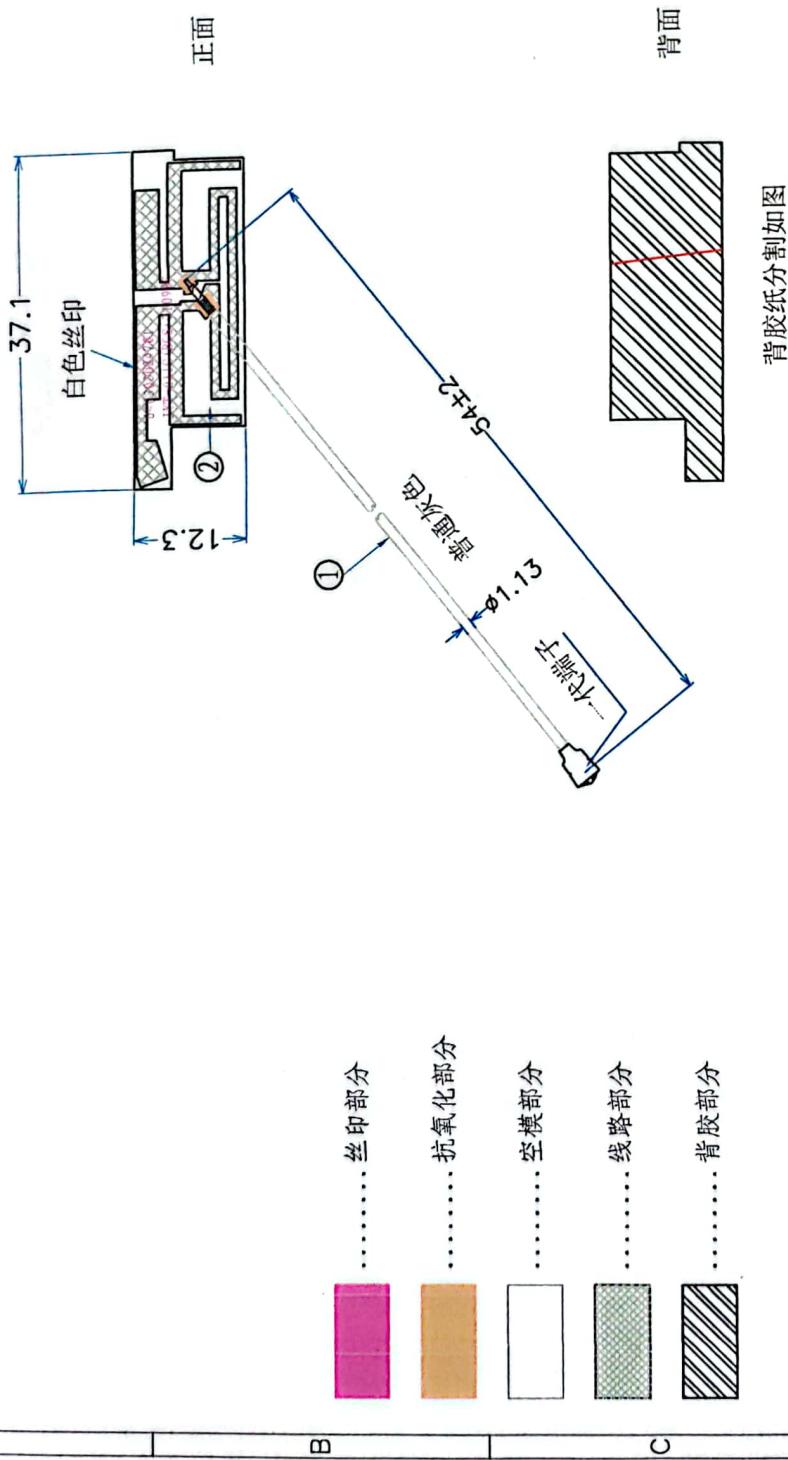
扫描全能王 创建

A

B

C

D



背胶纸分割如图

注意:

- 每100个天线组件装一小包,10小包装1大包,再装箱
- 若丝印内容有增加"+"或"-"是我司用于区分供应商的
标志,但产品性能、材质、加工工艺完全相同。

博格斯通信技术有限公司 Bogesi Organism Magnet Industry Co.,Ltd			
变更内容	变更日期	产品编号	FPC+CABLE
		JYT-011C	R.A

NO.	PART NO.	NAME	DESCRIPTION	设计	客户编号	版本	RA
				1 公差 其它不超过±0.2	1 审核	零件名称	项目号
②	JYT-011C-01A	天线辐射单元	FPC, 表面印黑油, 镀点抗氧化, 背胶	1 0T Y		JYT-011	
①	JYT-011C-21B	射频连接线	ODI.13MM, 灰色外被, 一端剥镀, 一端仰一代连接器	3 OT Y		2021-9-9	第1页 共1页



扫描二维码 创建