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:	-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)	≤2.24dBi					
Gain(5.8GHz)	≤3.44dBi					
B. Material & Mechanical Characteristic	es					
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%					

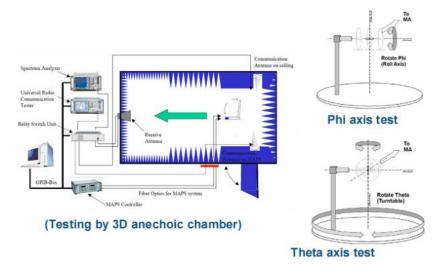
4.Test Equipment & Conditions

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



Shenzhen Lejin radio frequency technology Co., LTD

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).



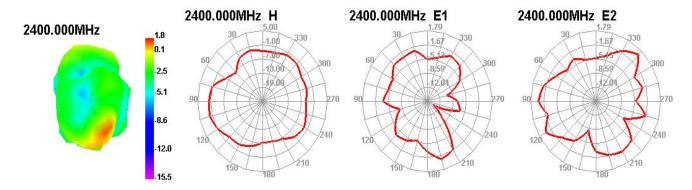
Chart 2 VSWR

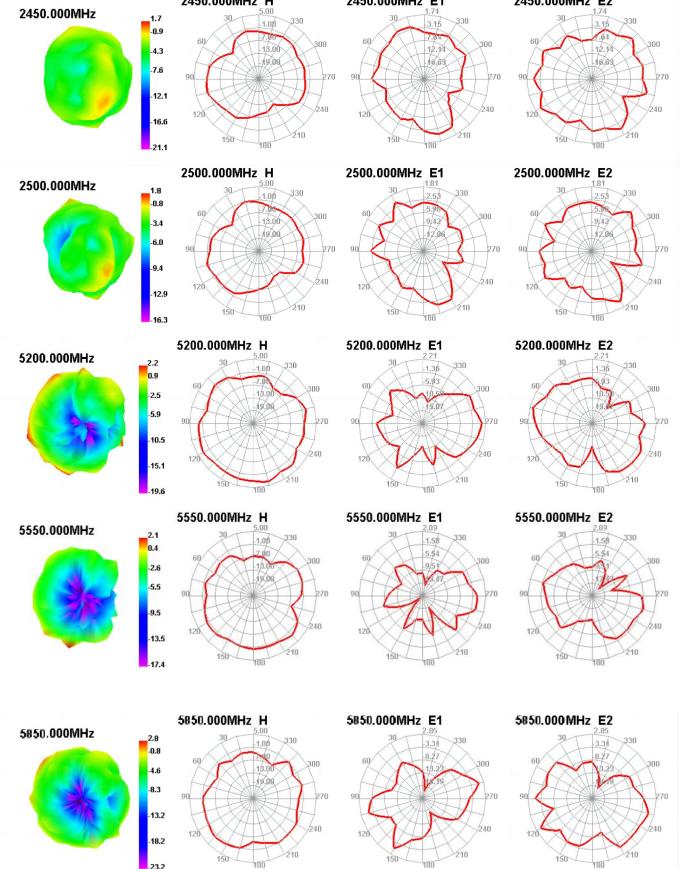
5.2 Efficient and gain.

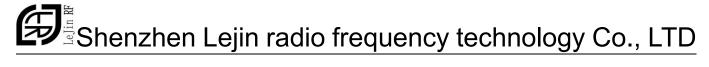
Passive Test	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Passive Test 2.4GHz	Effi(%)	52.18	45.17	44.40	46.98	50.61	49.28	48.90	51.86	50.60	45.73	49.19
2.4GHZ	Gain(dBi)	1.71	1.00	1.00	1.39	1.76	1.67	1.66	1.82	1.77	1.32	1.78

Passive Test	Freq(MHz)	5150	5200	5250	5300	5350	5400	5450	5500	5550	5600	5650	5700	5750	5800	5850
For 5G	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
FUI JG	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.







6.Reliability Test

	Test Item	Test condition	Equipment	Specification	Result
1	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 for44 hours; step-up temp to 25°C, test antenna after 2 hours.	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 ±1 %.PH value :6.5 \sim 7.2 Testtime:24hours	Salt-Spray Tester	No color change No appear rusting	PASS

7. Product Drawing

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