SPECIFICATIONS FOR APPROVAL

Customer Name: SHENZHEN ELECTRON TECHNOLOGY CO.,LTD Product Name: WIFI Antenna Product Model: WT8012T/WT8017T/WT8018T Part Number: _____ LJF02-20120308A-R0A Limingjin Write By: <u>20</u>20-12-03 **Issued Date: CUSTOMER BUSSINESS DEPT ENGINEER R&D DEPT** APPROVAL Jack Li **LEJIN** R&D DEPT **ENGINEER DEPT** APPROVAL

REV	MODIFIED DESCRIPTION	DATE	REMARK
V1.0	Initial Draft Release	2020/12/03	
V1.1	Support new model WT8016T	2022/10/21	

Menna.Tao

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3. Product Specification

A. Electrical Characteristics					
Frequency	2400MHz ~2500 MHz				
VSWR	<2.0				
Efficiency	>40%				
Impedance	50Ohm				
Polarization	Linear				
Gain	2.53dBi				
B. Material & Mechanical Characteristics					
Material of Radiator	FPC(Black),LJWF29A				
Cable Type	Φ1.13mm,L80mm,Black				
Connector Type	IPX1				
Dimension	43.0mm*11.5mm				
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

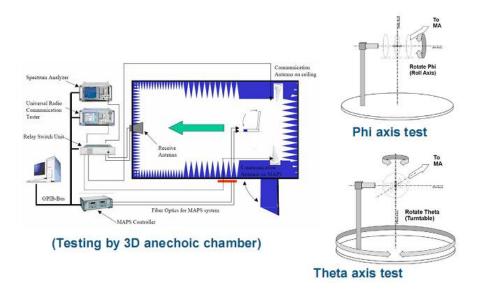


图 1 test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

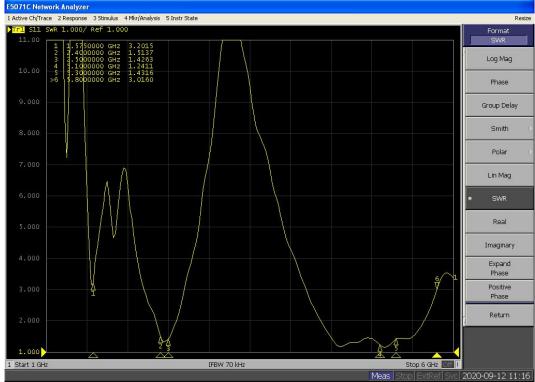
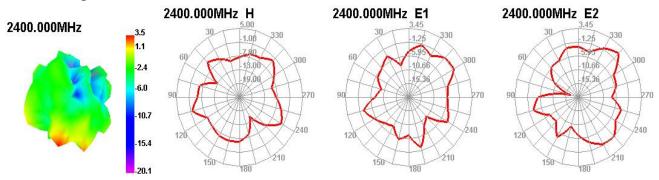


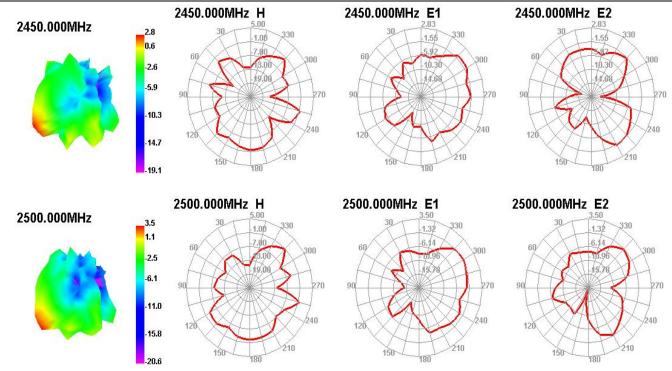
图 2 VSWR

5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
	Effi(%)											
WIFI 2.4G	Gain(dBi)	2.53	2.45	2.46	2.50	2.50	2.53	2.53	2.49	2.46	2.35	1.99

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 $^{\circ}$ 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 $^{\circ}$ C, test antenna after 2 hours.	Temp.&Hu mi. Tester	No material deformation is allowed. Electronic Performance is ok.	PASS
2	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 :6.5~7.2 Testtime:24hours	Salt-Spray Tester	No color change No appear rusting	PASS

7.Assemble type

Shenzhen Lejin radio frequency technology Co., LTD

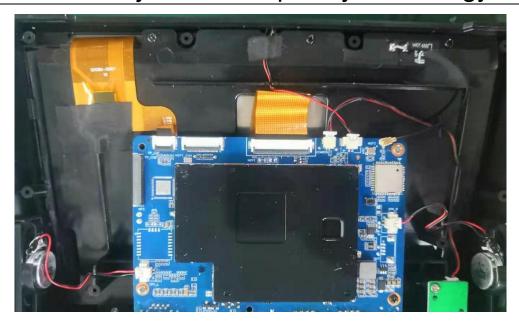


Chart 3 assemble type(overall)



Chart 4 Antenna position

8. Product Drawing

