SPECIFICATIONS FOR APPROVAL

Customer Name	E: SHENZHEN ELECTRON TECHNOLOGY CO.,LTD
Product Name:	WIFI Antenna
Product Model:	WT1012/1017
Part Number: _	LJF02-20120308B-R0A
Write By :	Limingjin
leeuod Dato:	2020-12-03

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3. Product Specification

A. Electrical Characteristics						
Frequency	2400MHz ~2500 MHz					
VSWR	<2.0					
Efficiency	>40%					
Impedance	50Ohm					
Polarization	Linear					
Gain	>=2.0dB					
B. Material & Mechanical Characteristics						
Material of Radiator	FPC(Black),LJWF29A					
Cable Type	Φ1.13mm,L130mm,Black					
Connector Type	IPX1					
Dimension						
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

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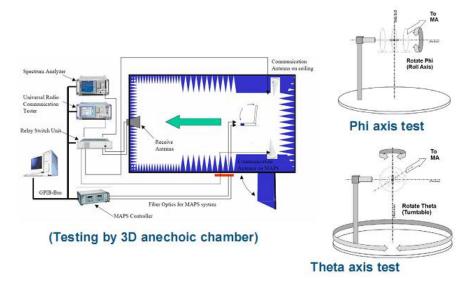


图 1 test topology

5.Test Report

5.1 Voltage Standing Wave Ratio(VSWR).

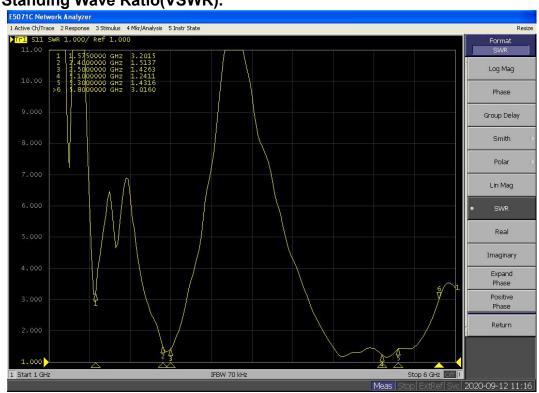
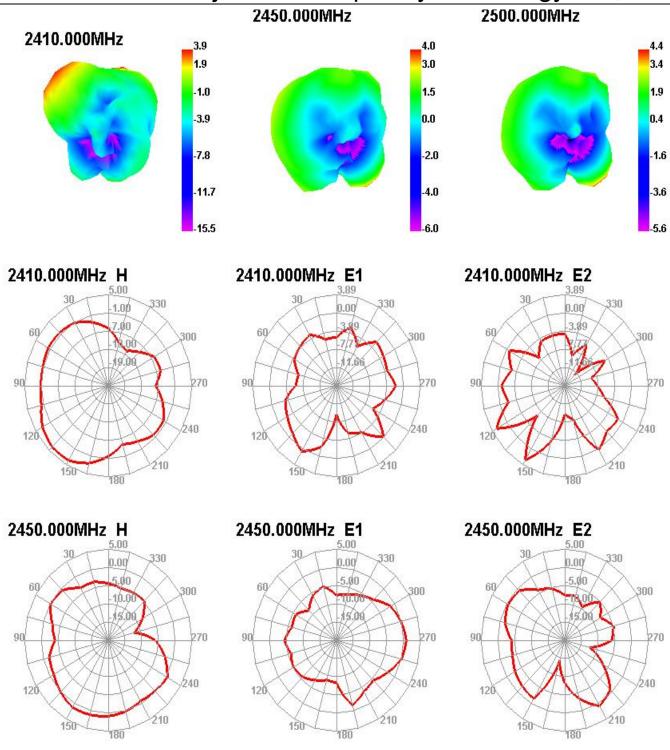
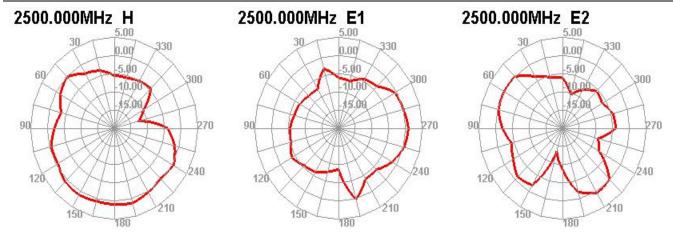


图 2 VSWR

5.2 Efficient and gain.

Passive	Freq(MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Test For WIFI	Effi(%)	54.38	58.61	60.82	66.01	61.82	65.13	61.04	60.28	60.26	60.60	55.75
	Gain(dBi)	2.34	2.69	2.66	2.75	2.71	2.77	2.77	2.74	2.71	2.59	2.19





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	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	Salt-Spray 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.Assemble type

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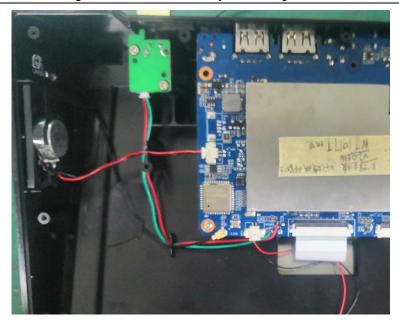


图 3 overall assemble type



图 4 Antenna position

8. Product Drawing

