



Specification Approval Letter

Approval Sheet

client's name _____ Ex _____

(Customer Name)

product name _____ X15CW-S90WIFI antenna _____

(Specification)

Customer part number _____

(Customer P/N)

Product part number _____

(O/I)

Sample delivery date _____ 2023-11-28 _____

(Date)

frequency band	2.4WIFI		
Version	A		
radio frequency	Chen Mushao	confirm	
structure	Yang Xuezhong		
client confirmation			
date			

Head record

1. Project pictures

2. Test fixture

3. Matching circuit

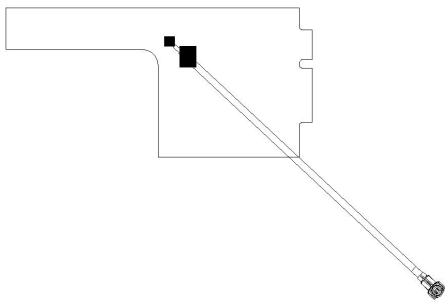
4. S11 tests electrical performance

4.1 S11 Test Method Description Specifications

4.2 S11 parameter pictures

5. Structural drawings

1. Project pictures (for reference only)

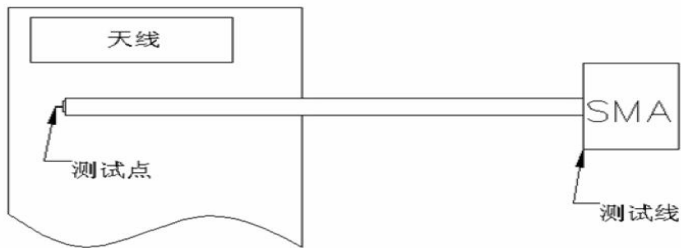


WiFi antenna

2. Passive testing

Purpose: Test the passive parameters of the antenna as accurately as possible.

Method: This fixture uses a 50-ohm coaxial cable. One end is connected to the test point at the back end of the matching circuit (the front section of the RF test hole) of the machine's motherboard, and the other end is connected to the SMA connector. The details are as follows:

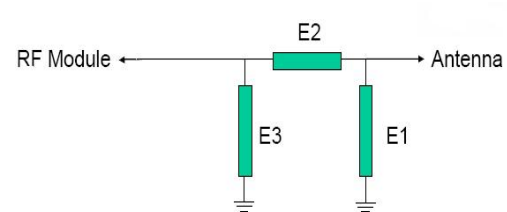


The following table is a test guide for the performance of the X15CW-S90WIFI mass-produced antenna.Tag:

X15CW-S90WIFI antenna				
	Frequency(MHz)	VSWR	Frequency(MHz)	VSWR
frequency band	The transmitting end		Receiving end	
2.4G WIFI	2400-2500	≤3.0	2400-2500	≤3.0

3. Matching circuit

antenna(Match no changes)



Element	match value
E1(0402)	
E2(0402)	0 ohms
E3(0402)	

4. S11 test

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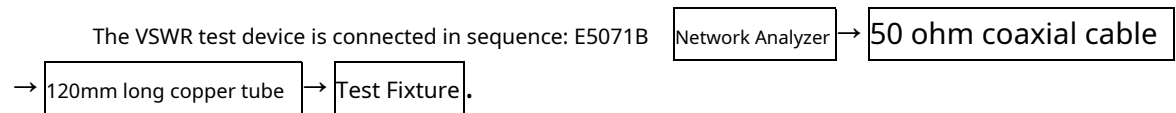
Dosking MicroElectronics Co.,Ltd

address:Private Enterprise Science and Technology Park, Xili University Town, Nanshan District, Shenzhen2Building (Hong Kong Hung Kai Building) West Tower403

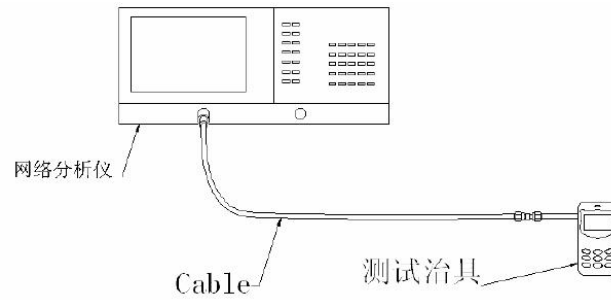
TEL:0755-88602767

FAX:0755-82793883

4.1 S11 Test Method Description Specifications



How to handle the test fixture: Use a hard cable to lead out the SMA-J connector from the 50 ohm test point of the antenna on the mobile phone PCB, connect it to a copper tube covered with a choke, and then connect it to other devices in turn.



Test diagram

S11 passive standing wave diagram



2.4WIFI efficiency/gain

Freq	Effi	Gain
(MHz)	(%)	(DBi)
2400	30.03	0.02
2420	31.52	0.09
2440	31.79	0.12
2460	32.36	0.14
2480	32.57	0.16
2500	32.6	0.18

3DPin

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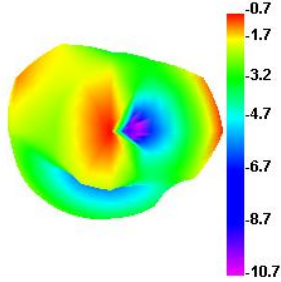
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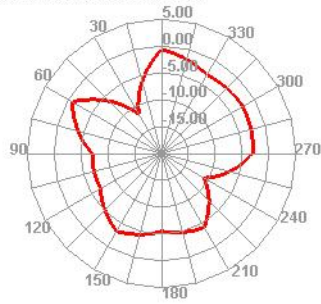
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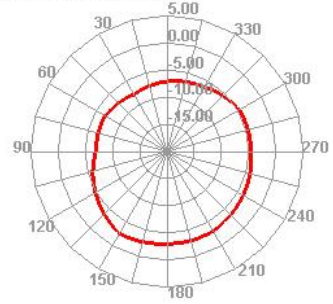
2400.000MHz



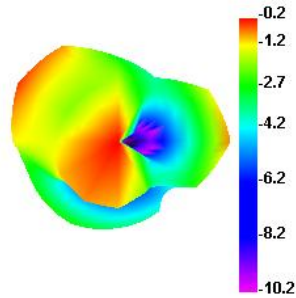
2400.000MHz E1



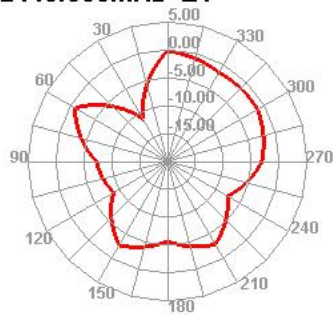
2400.000MHz H



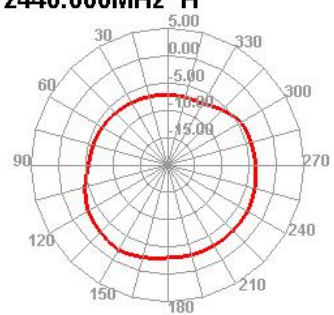
2440.000MHz



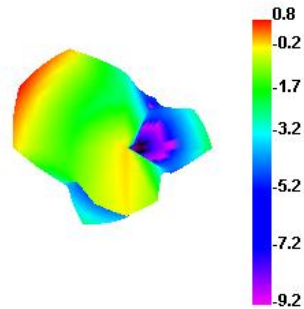
2440.000MHz E1



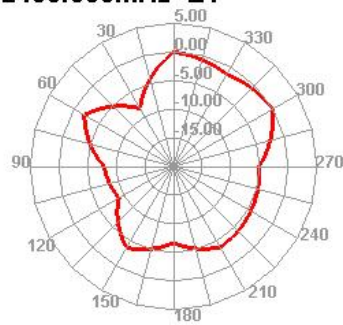
2440.000MHz H



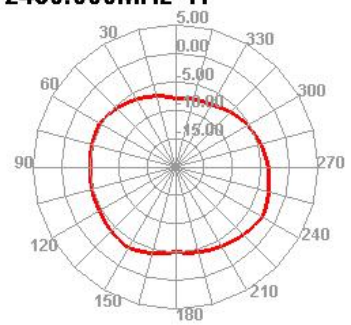
2480.000MHz



2480.000MHz E1



2480.000MHz H



5: Structural drawings

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