

Dongguan Xiaoshuai Electronics Technology Co., Ltd

Product recognition

SPECIFICATION FOR APPROVED

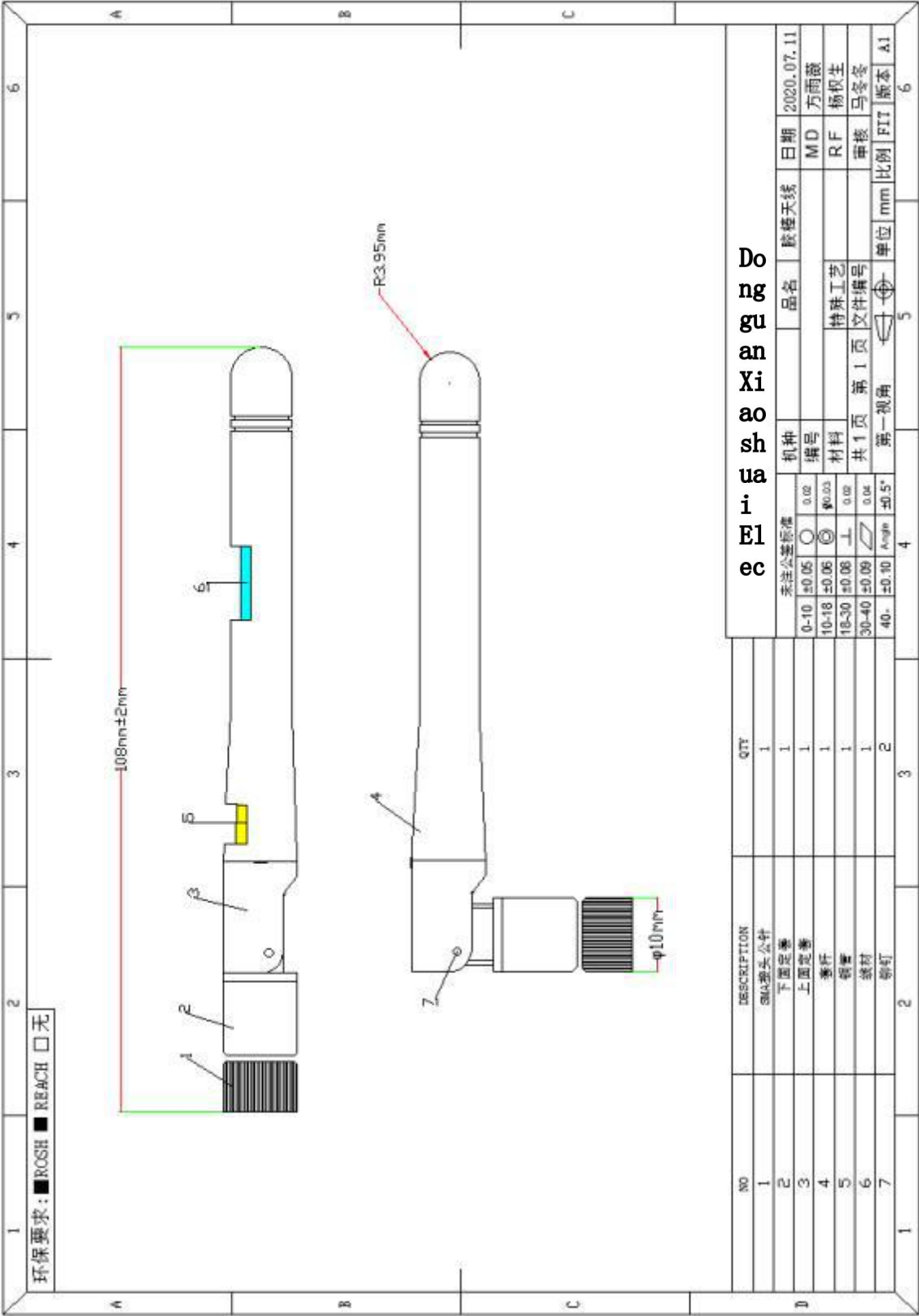
Customer CUSTOMER: _____
product name _____
PRODUCTS : _____ 5G-2DB, rubber rod antenna _____
Customer material number _____
PART NO: _____
product model _____ H M 2 (mother needle) H _____
Spec . : _____
date _____
Data : _____ 2022.05.16 _____

supplier		
SUPPLIER		
Fit the PREPARED BY	Review the CHECKED BY's	ratify APPROVED BY
Wang Dahai	Wang Xiao	Ale n

client		
CUSTOMER		
admit ACCEPTED BY	examine and verify CHECKED BY	Approval of the APPROVED BY's

Project information Project Information

Appearance dimension Appearance and Dimensions



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1. Physical drawing Physical map

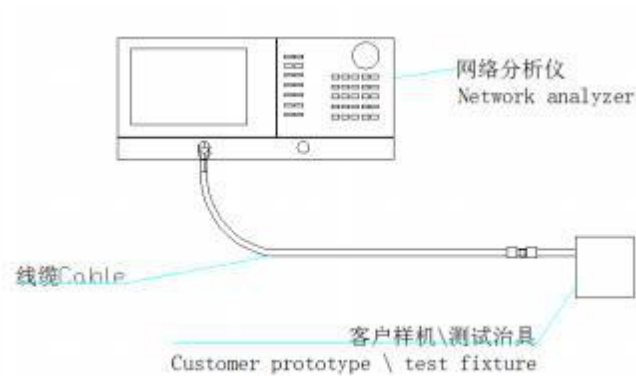


2. Electrical performance: Electrical Characteristics

2.1. Test the environmental conditions of T est Environment Conditions

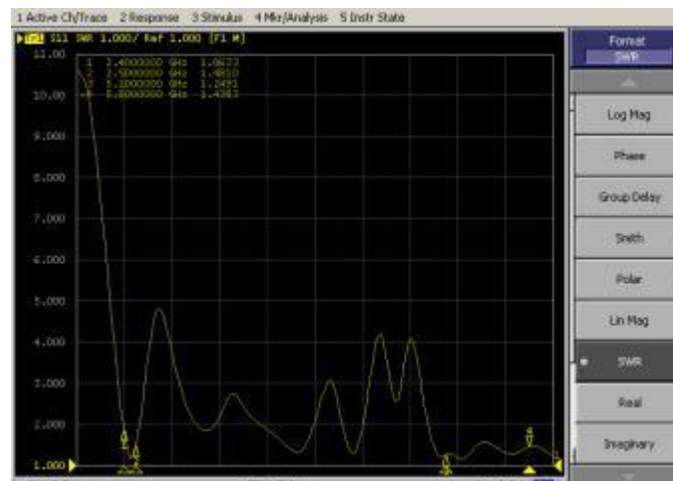
temperature Temperature	Ordinary Temperature (5 to 35℃)
Humidity: Humidity	Ordinary Humidity (25 to 85% RH)

2.2., Test method Measurement meth od

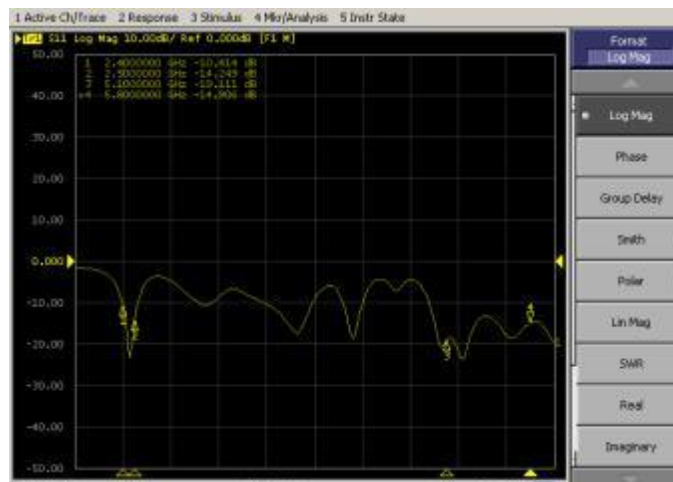


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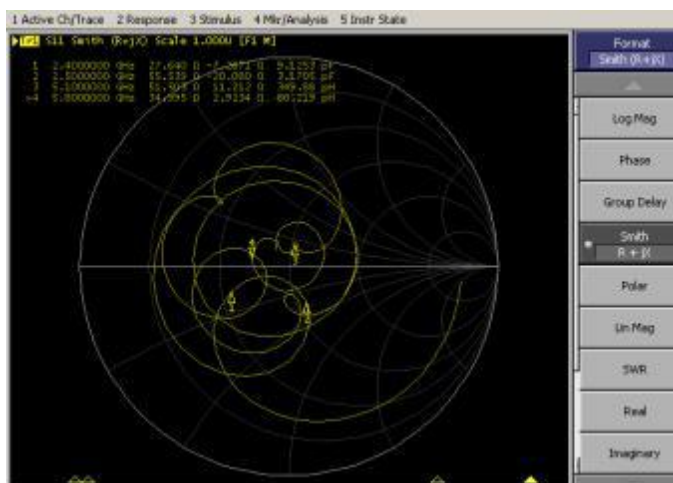
2.2.1. Voltage wave ratio VSWR



2.2.2 Echo loss: Log Mag

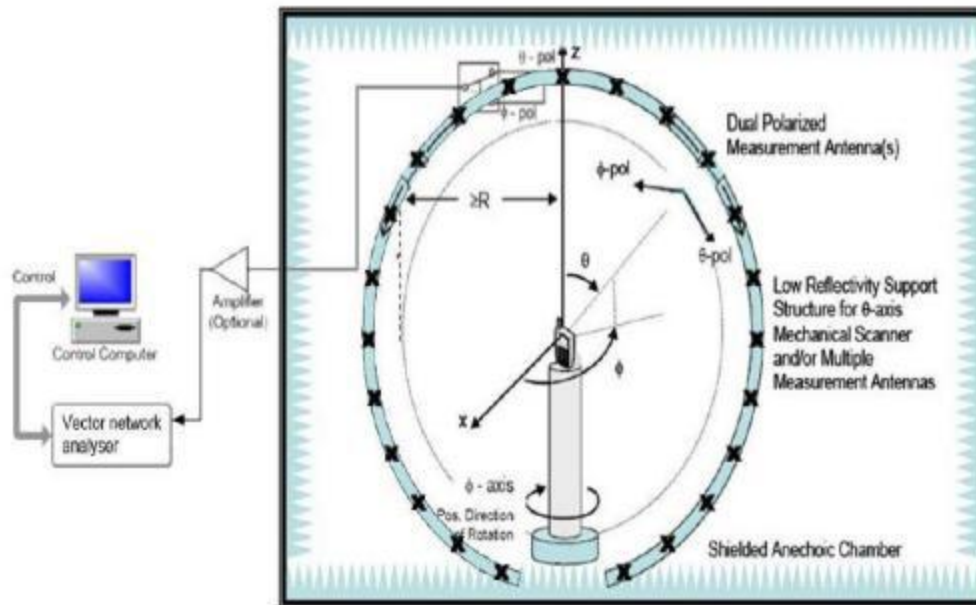


2.2.3. Impedance of Impedance



2.3. Efficiency and gain of Efficiency and Gain

. 1. 2. 3 Test system Test system



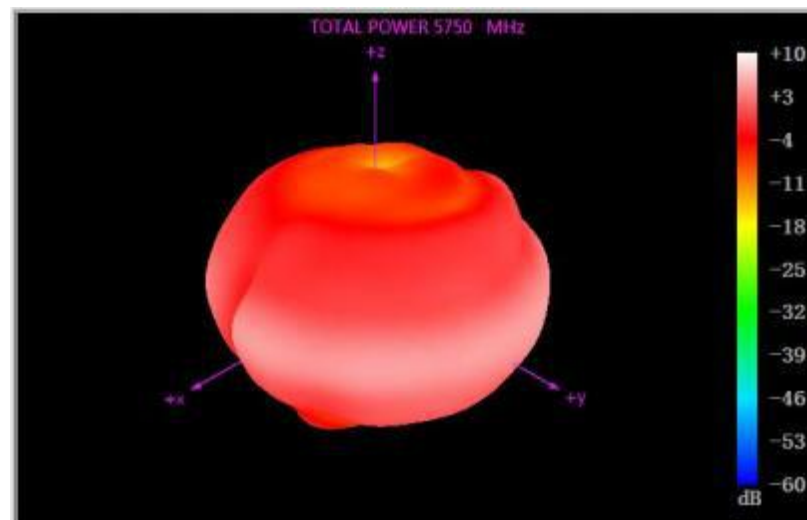
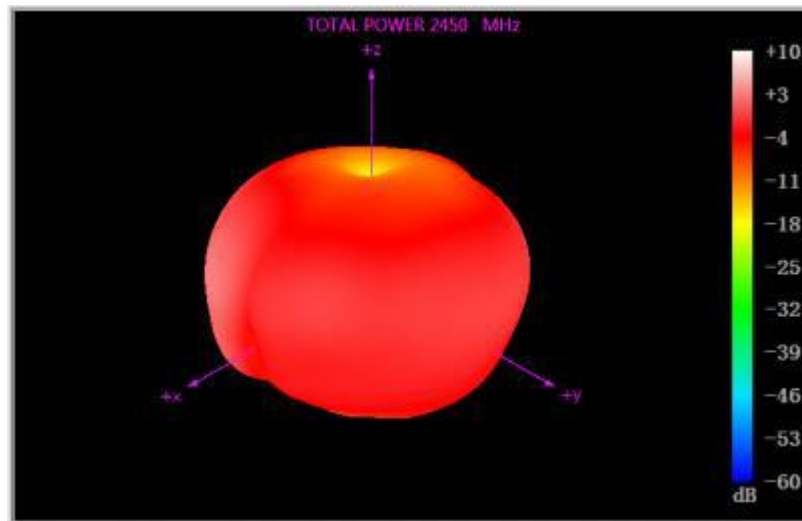
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2.3.2. Passive data No-source test data

Fr equency (MHz)	Effi ciency (%)	Gai n (dBi)
5150 MHz	56.34	3.58
5200 MHz	59.66	3.26
5250 MHz	60.21	2.96
5300 MHz	63.72	2.91
5350 MHz	62.79	2.98
5400 MHz	62.21	3.45
5450 MHz	62.82	3.04
5500 MHz	60.59	3.34
5550 MHz	62.93	3.27
5600 MHz	57.19	2.88
5650 MHz	62.42	3.53
5700 MHz	61.22	3.54
5750 MHz	61.61	3.59
5800 MHz	59.9	3.14
5850 MHz	62.44	3.38

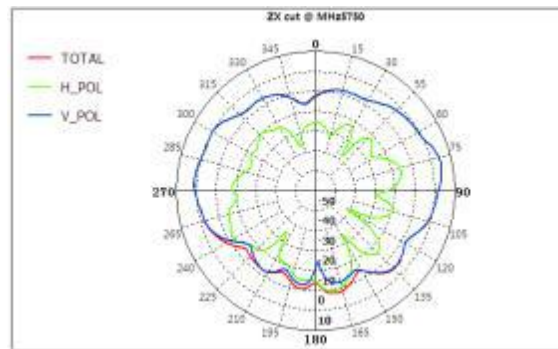
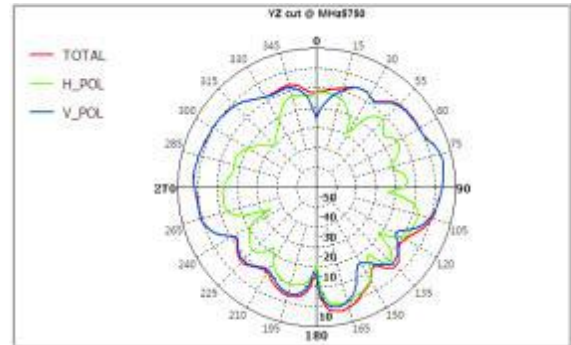
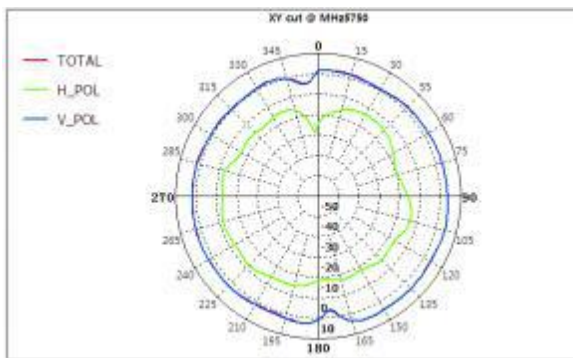
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2.3.3. 3D Radiation Drawing



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2.3.4. directional drawing of horizontal plane



3. Note to the Notes

1. Pay close to the metal to avoid affecting the antenna performance.
2. This antenna is only applicable to this model, and the position of the antenna can not be changed at will. If used on other machines, the effect becomes worse, unlike our company

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4. Reliability test Reliability test

project	Test methods and conditions	Specifications and requirements	experimental result
Storage environment	Test temperature, humidity, air pressure as follows: 1. The temperature is $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 2. Relative humidity is 45% – 85% 3. The air pressure is 86Kpa–106Kpa	No significant change in the appearance Each electrical parameters meet the specification error	OK
Salt Spray Test	Saline concentration: $50 \pm 10\text{g} / \text{l}$ (about 5%); PH6.5–7.2; test temperature: $35 \pm 1^{\circ}\text{C}$; Corrosion time: 16H.	Judgment method: 20 x magnification after test; no bad oxidation; qualified	OK
drop test	Drop from 1M	No significant change in the appearance Each electrical parameters meet the specification error	OK
Pull force test	Test the tolerance with a tension test instrument: 12N	No significant change in the appearance Each electrical parameters meet the specification error	OK

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Constant temperature and humidity test	Temperature and humidity: 40°C ± 2°C, 90-95%RH Duration: 4H Recovery time: 1 to 2H	No significant change in the appearance Each electrical parameters meet the specification error	OK
High and low temperature test	Five cycles were performed between 70°C and 40°C, followed by 1 - 2H under normal conditions	No significant change in the appearance Each electrical parameters meet the specification error	OK
grinding spark test	.50KV /0.15 sec .	No significant change in the appearance Each electrical parameters meet the specification error	OK