



ShenZhen City FeiMin Technology CO.,LTD.

SPECIFICATION FOR APPROVED

CUSTOMER: Shenzhen Alya Technology Co., LTD

PRODUCTS: 902-928 MHz antenna

PART NO:

Spec. : FM-S1585-electronic wire (95mm)

Data: 2022. 10. 11

SUPPLIER		
PREPARED BY	CHECKED BY	APPROVED BY
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CUSTOMER		
ACCEPTED BY	CHECKED BY	APPROVED BY

REMARK: Please send us one (or copy) of this approval with stamp after accepting, other copies filed by the customer.

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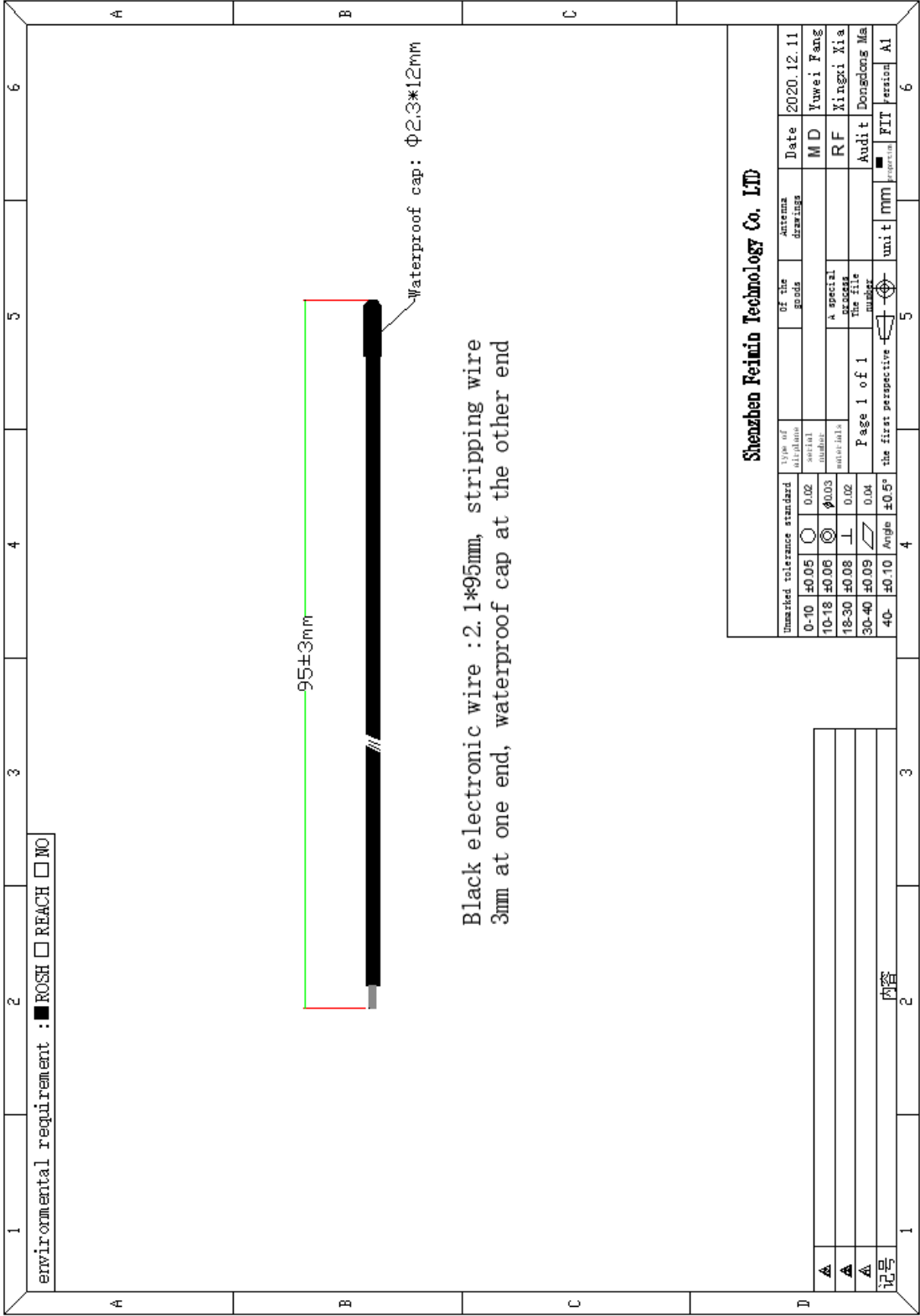
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Revision history

version	Date	state
A1	2020-09-24	first edition

1. Project Information

1.1.Appearance and Dimensions



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1.2. picture of real products

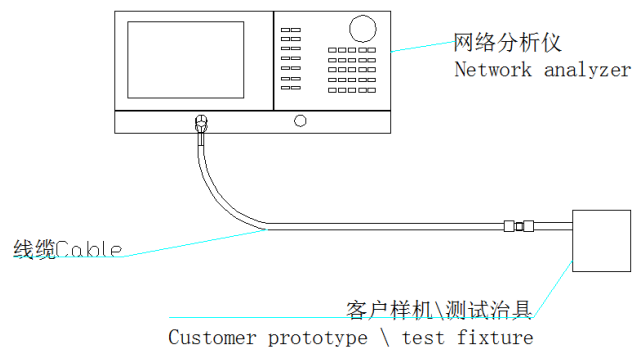


2. Electrical Characteristics

2.1. Test Environment Conditions

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

2.2.Measurement method

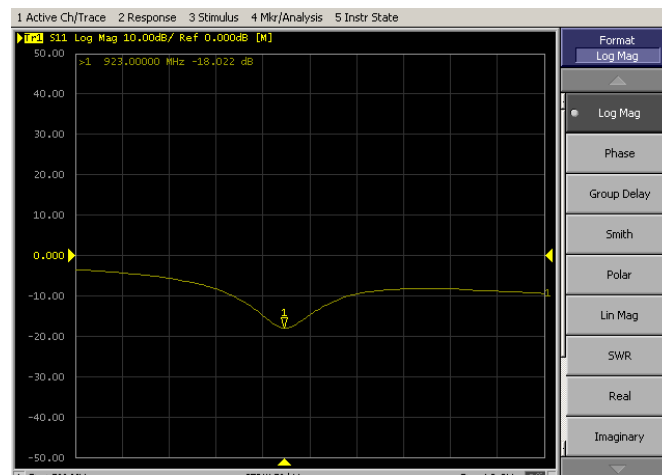


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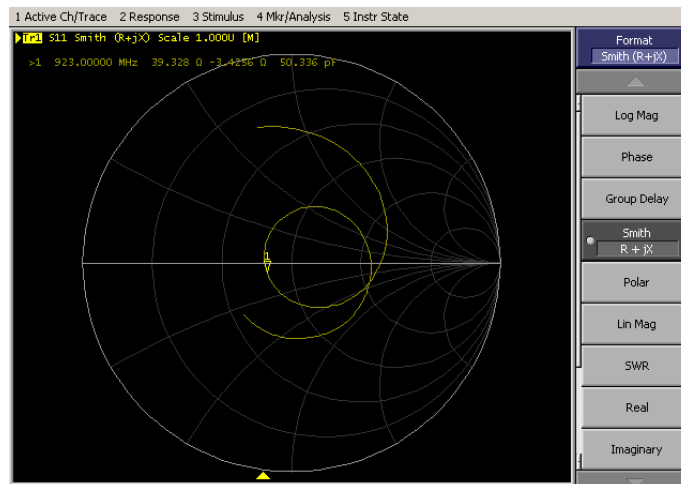
2.2.1. VSWR



2.2.2. Log Mag



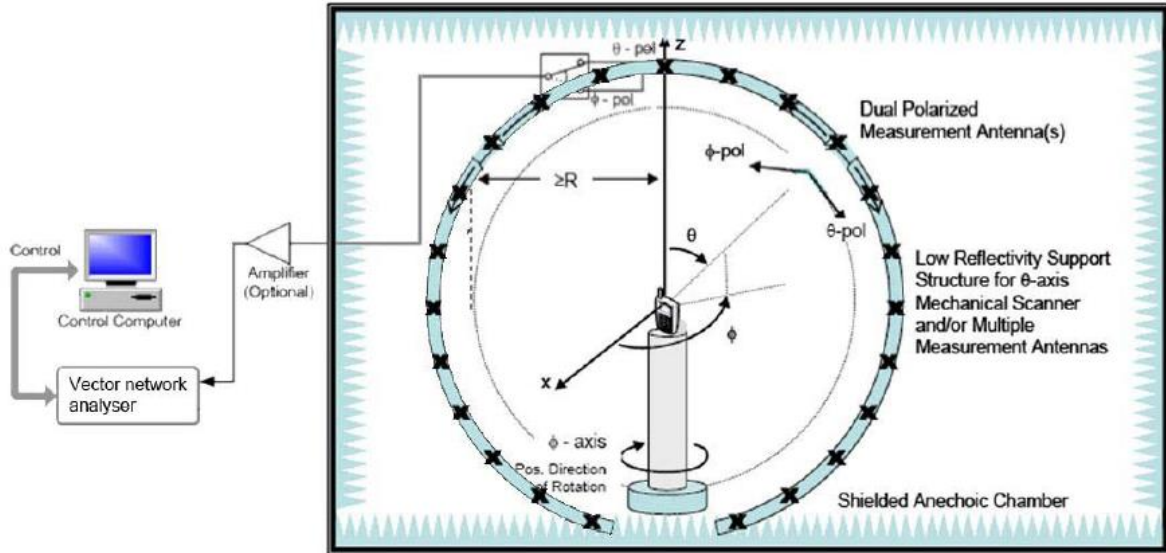
2.2.3. Impedance



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2.3. Efficiency and Gain

2.3.1. Test system

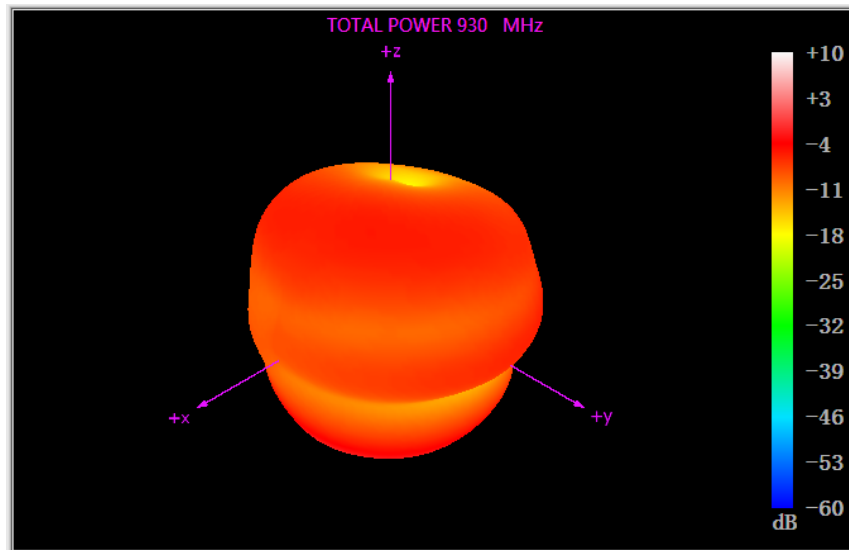


2.3.2. No-source test data

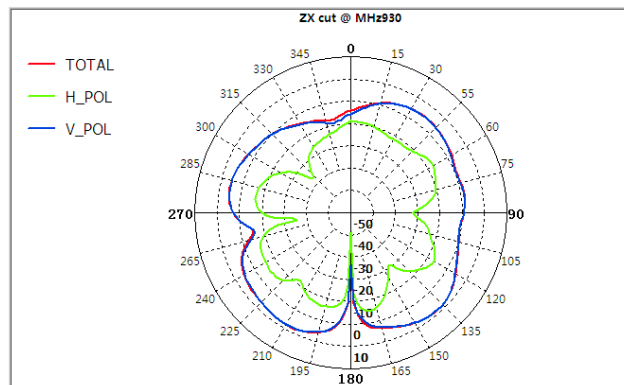
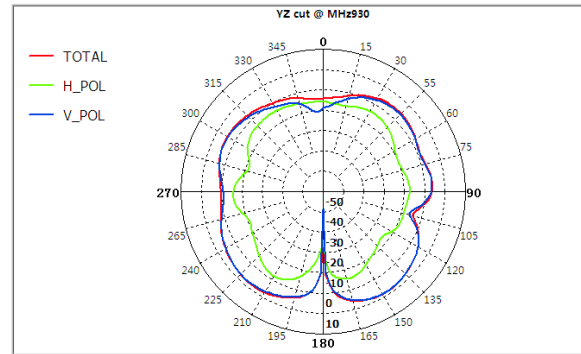
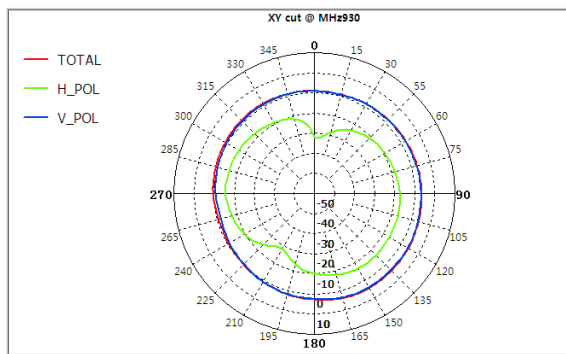
Frequency (MHz)	Gain (dBi)	Efficiency (%)
902 MHz	-0.96	27.34
904 MHz	-1.06	26.73
906 MHz	-1.17	26.12
908 MHz	-1.04	25.28
910 MHz	-1.11	24.94
912 MHz	-1.2	24.68
914 MHz	-1.23	24.62
916 MHz	-1.29	24.44
920 MHz	-1.55	23.45
924 MHz	-1.62	23.27
928 MHz	-1.66	23.27

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2.3.3. 3D Radiation Drawing



2.3.4. directional drawing of horizontal plane



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3. Notes

1、When installing, it should not be too close to the metal part to avoid affecting the performance of the antenna.

2、This type of antenna is only applicable to this type. The position of the antenna can not be changed at will. If it is used on other machines, the effect will become worse, which has nothing to do with our company.

4. Reliability test

Project	Test methods and conditions	Specifications and Requirements	The experimental results
Storage environment	Temperature, humidity, and air pressure are tested as follows when not specified : 1、Temperature is $-30^{\circ}\text{C} \sim +80^{\circ}\text{C}$ 2、Relative humidity is 45%~85% 3、Atmospheric pressure is 86kPa~106kPa	There is no obvious change in appearance The electrical parameters conform to the specification error	OK
Salt spray test	The brine concentration was $50\pm 10\text{g/L}$ (about 5%).PH6.5-7.2;The test temperature was $35\pm 1^{\circ}\text{C}$.Corrosion time 16H.	Determination method: observe with 20 x magnifying glass after the test;No adverse oxidation;Pass the test	OK
Drop test	Fell off at 1M onto a plank	There is no obvious change in appearance The electrical parameters conform to the specification error	OK

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Drawing force test	Test the strength with the push-pull meter instrument: $\geq 12\text{N}$			There is no obvious change in appearance The electrical parameters conform to the specification error	OK
Constant temperature and humidity test	Temperature and humidity : $40^{\circ}\text{C} \pm 2^{\circ}\text{C}$, 90–95%RH The duration of the: 4H Recovery time: 1 to 2H			There is no obvious change in appearance The electrical parameters conform to the specification error	OK
High and low temperature test	5 cycles were performed between 70°C and 40°C , and then 1-2h under normal conditions			There is no obvious change in appearance The electrical parameters conform to the specification error	OK
Transmission loss	1GHz	1.987	db/m	The loss values obtained by the tests are all lower than the standard values	OK
	2GHz	2.893			
	3GHz	3.621			
	4GHz	4.274			
	5GHz	4.827			
	6GHz	5.399			



5. Product packaging specification

The product name: 902-928MHz 天线

Antenna form: Electron wire

一、Label requirements

The inner label is about 5.5cm long and 2.2cm wide

The outer label length is about 8.8cm and 4.4cm

For your answer	Shenzhen Feimin Technology Co. LTD
The product name	*****
Material code	*****
specifications	*****
quantity	***PCS

The customer name			
For your answer	Shenzhen Feimin Technology Co. LTD		
The order no.	*****		
Material code	*****		
specifications	*****	The product name	*****
quantity	*****PCS	inspection	
Spare parts	***PCS	note	

二、The process using the

Job description:

1. ___ Product with PE open bags, each bag with Inner label;

产品

PE袋

PE袋

Put the ___ small bag in the large PE sealing-tape bag, except the ends and spare parts.

2. Each carton shall be packed in large bags of products, sealed with gummed paper in the shape of "工".

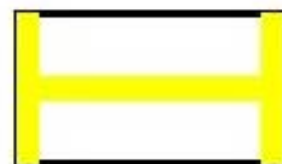
3. Put a label on the upper right corner of the box. No missing or wrong filling is allowed.

三、Matters needing attention

When packing, pay attention to put the antenna flat, no serious shaking after sealing

In case of movement, if the FCL is not filled, it shall be filled with foam cotton to avoid transportation

A condition that causes product defects in the process.



纸箱

