
Specification Book

for

WJ07 WIFI antenna

Customer Material Number

The material number of our company

QM-2.4-5.8G-WIFI- Magenta copper

Compiled by Zeng Xiaofeng. Reviewed by Li Ming

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Dongguan Qianmu Electronic Technology Co., LTD

Room 201, Building 2, Nantai Cloud Innovation Valley Park, southeast corner of the intersection of
Guangming Avenue and Dongchang Road, Tangwei Community, Fenghuang Sub-district, Guangming

District, Shenzhen City, Guangdong Province

mailbox: **sz_shuodian@163.com**

phone: 0755-86006322

Fax: 0755-86006323

CATALOGUE

REGULATION BOOK 错误!未定义书签。

DONGGUAN QIANMU ELECTRONIC TECHNOLOGY CO., LTD 错误!未定义书签。

CATALOGUE 错误!未定义书签。

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1.be confirmed by both sides

1.1Customer confirmation signature

client:

Customer Department/Position	Signature of the confirmer	confirmation date
Hardware/Radio Frequency		
structure		

project manager		
Business/Procurement		
check		

1.2Qianmu Technology confirms and signs

Department/Position	Signature of the confirmer	confirmation date
Antenna engineer		
structural engineer		
project manager		
QA		
audit		

2.general precautions

2.1 range of application

WJ07 2.4G-5.8G WIFI antenna

2.2 using temperature range

The operating temperature range of this product is -20 to +65 ℃

2.3 Storage temperature range

This product should be stored at -30 to +75 ℃

3.General specifications of the product

NO.	ITEMS	DETAILS
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1	type	WJ07 2.4G-5.8G WIFI	
2	frequency band	2400-2500MHZ	5100-5900MHZ
3	VSWR	≤ 2.0	
4	Gain	2.0dBi	
5	Radiation Efficiency	$\geq 50\%$	
6	impedance	50 Ω	
7	Antenna type	PIFA	
8	Antenna implementation form	Copper-Nickel Alloy	
9	Antenna picture		

4.Product Specification details

4.1Product structure parameters

4.11Product material composition:

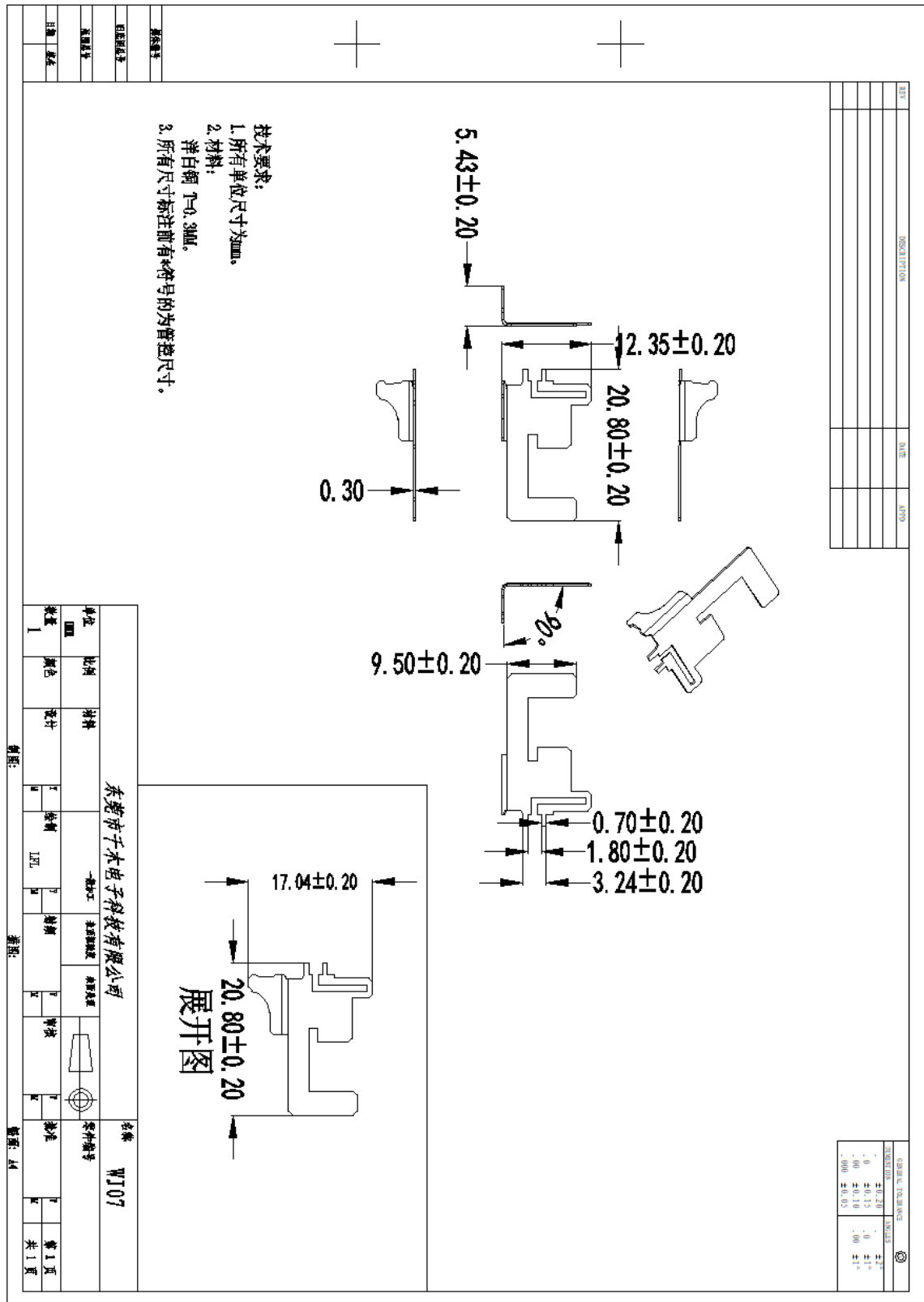
numerical order	materials	Specification (MM)
1	copper-Nickel Alloy	20.8*12.35*5.43 silver

4.12 appearance

The product has a good appearance, free from scratches, sweat stains, protrusions and other serious defects that affect the appearance.

4.13 structure size

**product
drawing**



4. 2Product electrical performance test data

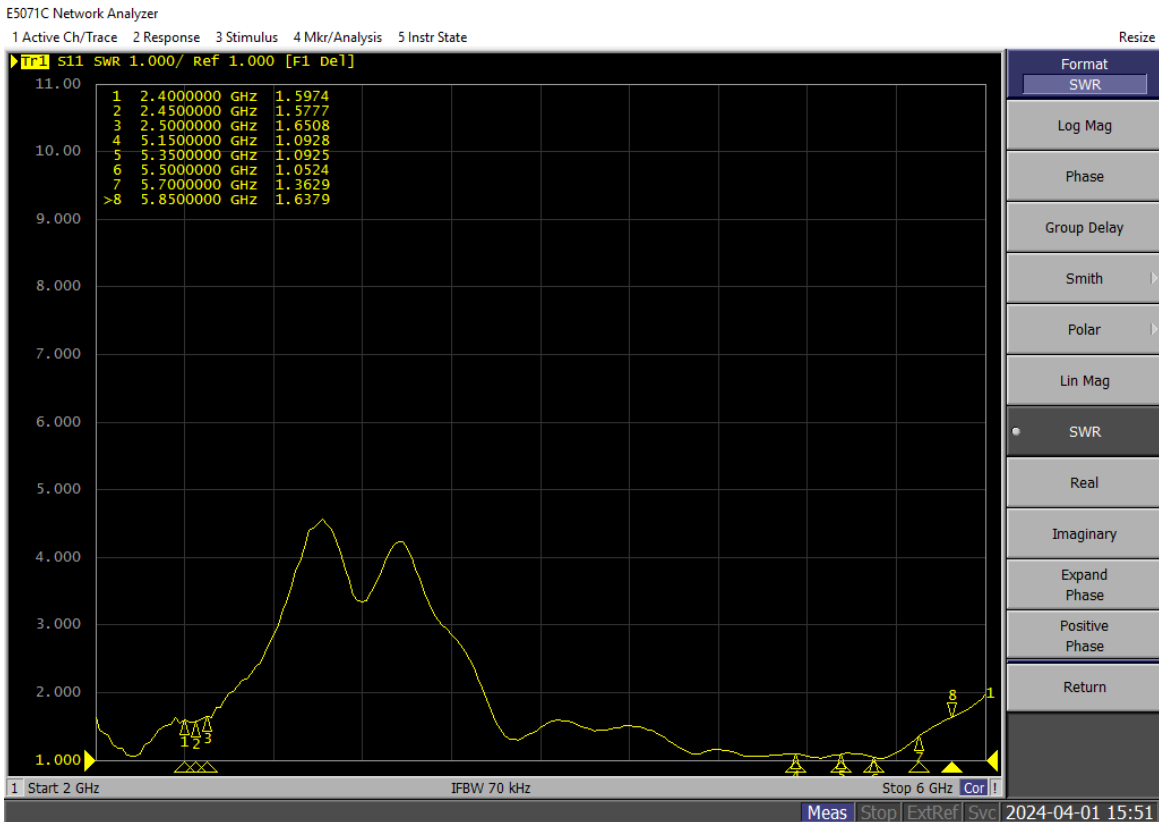
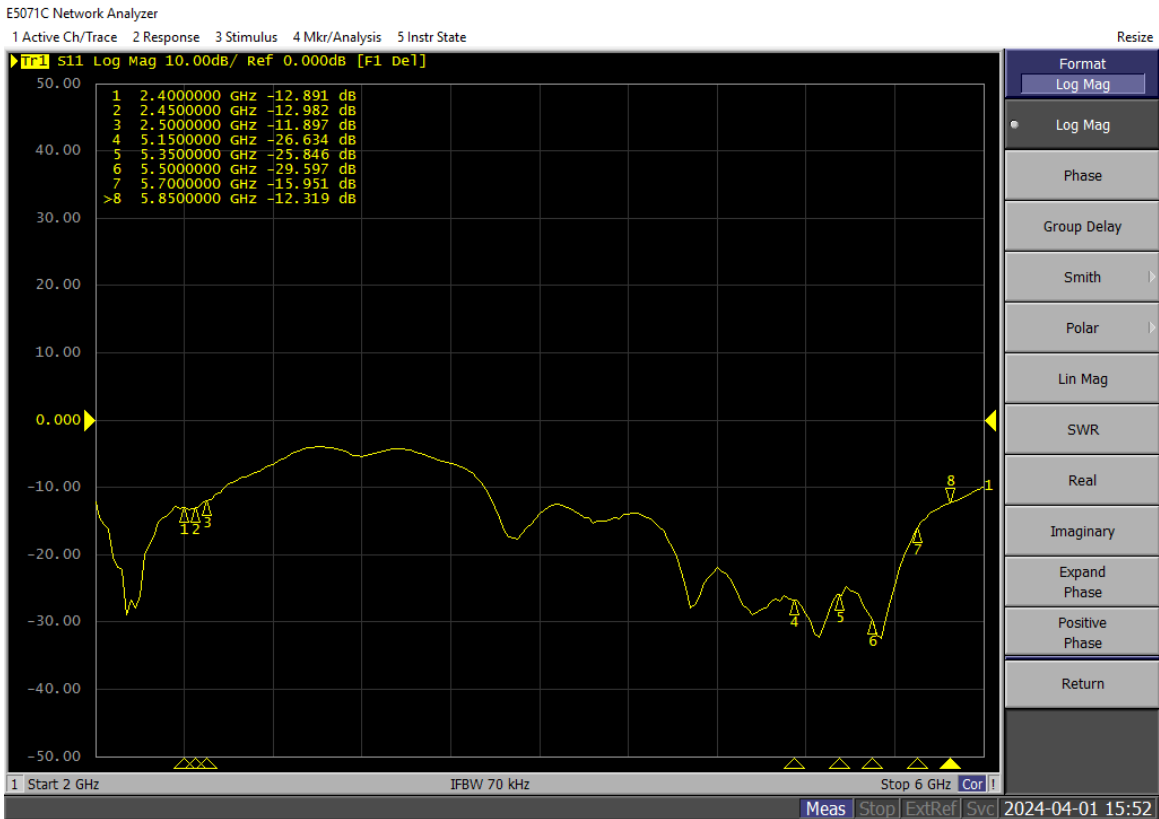
4. 21 Test environment and instruments and equipment

testing environment: temperature: 10℃——+30℃ relative humidity: ≤80% (+40℃) barometric pressure: 750mmkg± 30mmkg	test equipment: network analyzer KEYSIGHT E5071C Multi-probe microwave anechoic chamber
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4. 22. 1 Product electrical performance test data:

S11 diagram of the antenna::

Marker (MHz)	2400	2450	2500	5150	5350	5500	5700	5850
Returnloss	-12.8	-12.9	-11.8	-26.6	-25.8	-29.5	-15.9	-12.3
VSWR	1.5	1.5	1.6	1.0	1.0	1.0	1.3	1.6

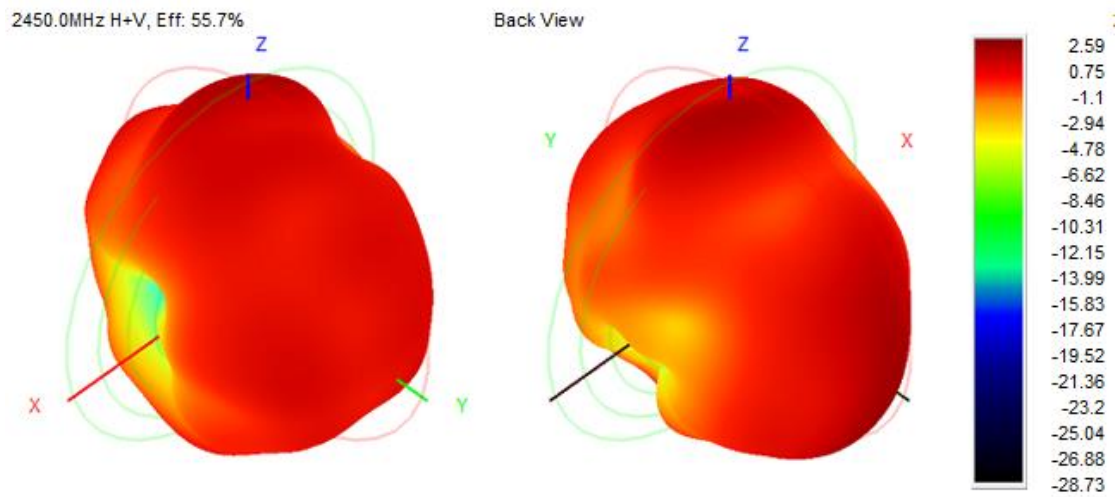


4.22.2 Gain efficiency of the antenna:

Marker (MHz)	2400	2450	2500
Gain (dBi)	2.69	2.59	2.87
Efficiency (%)	58.75	55.66	53.14

4.22.3 The radiation pattern of the antenna:

2450 MHz:



5. Product packaging method

manner of packing:

Self-sealing bag packaging, 200PCS per bag.

6. Document resume

Document No.	
Release Date	2025/04/21
Author	Hungjie
Review	WH

Revised History

Date	Version	Revised Record
2025/04/21	1.00	New Project