



Shenzhen Shuodian Electronic Technology Co.,Ltd
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SPECIFICATION

for

2.4G Spring Antenna

Customer No.

Product No.

2.4G-Spring Antenna

Author: XiaofengZeng Review: Liming

Release Date: 2023.07.27

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Shenzhen Shuodian Electronic Technology Co.,Ltd



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1. Bilateral Confirmation page

1.1 Customer signature

Customer:

Seapartment/post	Sign	Date
Hardware Engineer/RD		
Mechanical/MD		
Project Manager/PM		
Commercial/Puchasing		
Checker		

1.2 Signature of ShuoDian Technology company

Seapartment/post	Sign	Date
Antenna Engineer/RD		
Mechanical/MD		
Project Manager/PM		
QA		
Checker		



2. General

2.1 Scope of application

This specification is only applicable to Z2 2.4G Spring Antenna

2.2 Operating temperature range

Temperature range of this product: -20 ~ +65 °C

2.3 Storage temperature range:

This product is stored at - 30 ~ + 75 °C

3. General product specifications

NO .	ITEMS	DETAILS
1	机型	Z2
2	频段	2400-2500MHz
3	VSWR	≤2.0
4	阻抗	50 Ω
5	天线类型	Monopole
6	天线实现形式	Spring
7	天线图片	



4. Specification Detials

4.1 Mechanical Properties

4.11 Product Composition:

No.	Material	Size (MM)
1	Phosphorous copper	Φ3.6*22.15

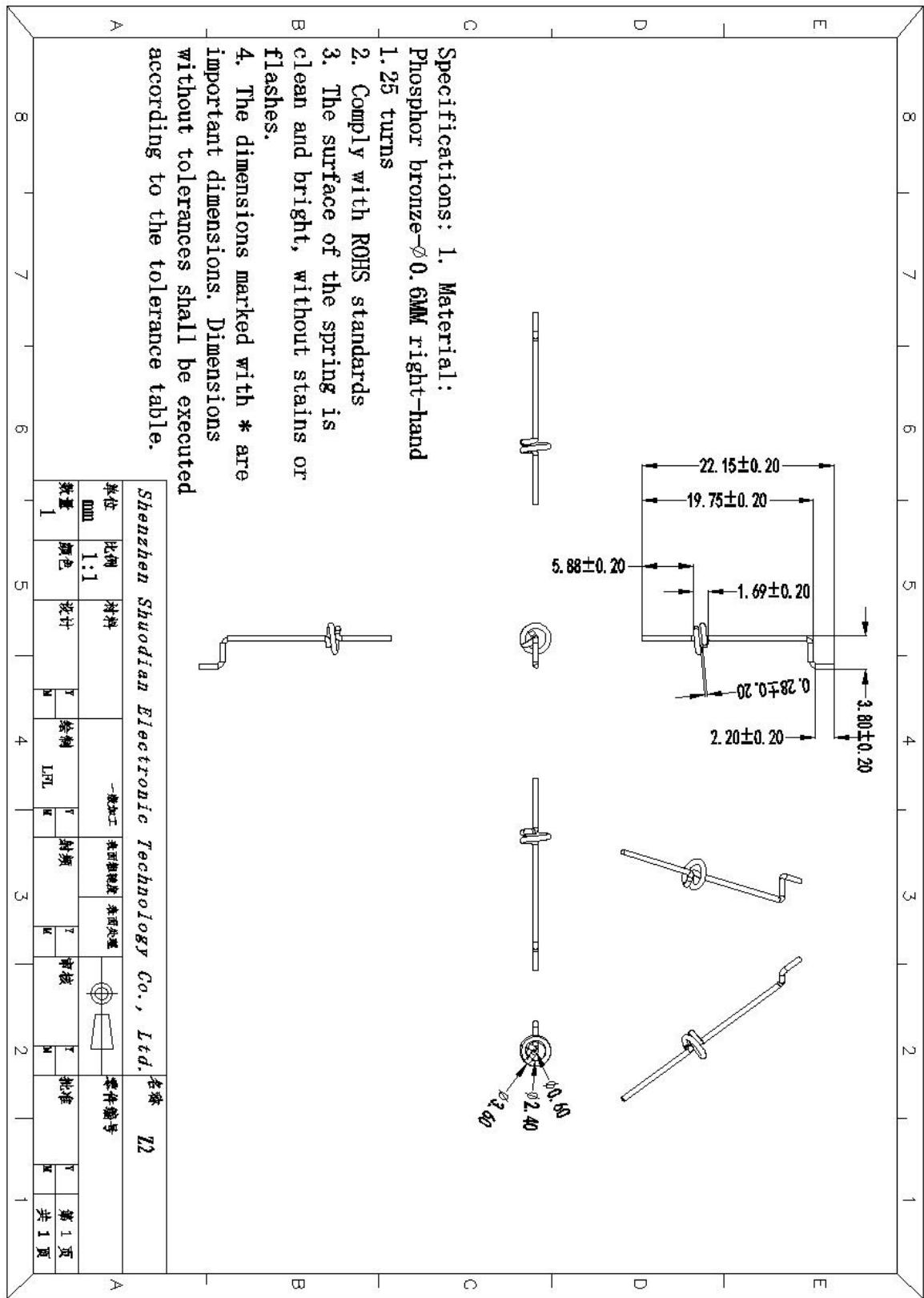
4.12 Apperance

Good appearance without scars 、 dirt、 protuberances, etc.

4.13 Antenna Picture and Structure Dimension

Refer to product drawings:

Product drawings:





4.2 Electric Performance

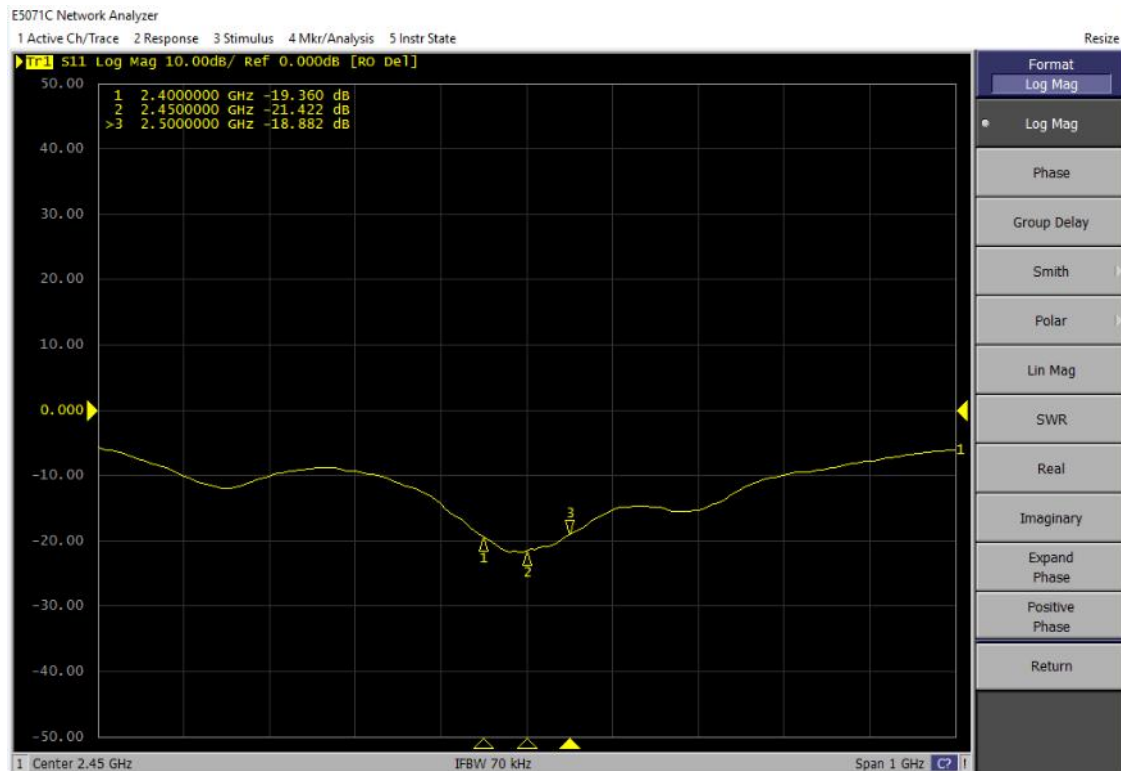
4.21 Test condition

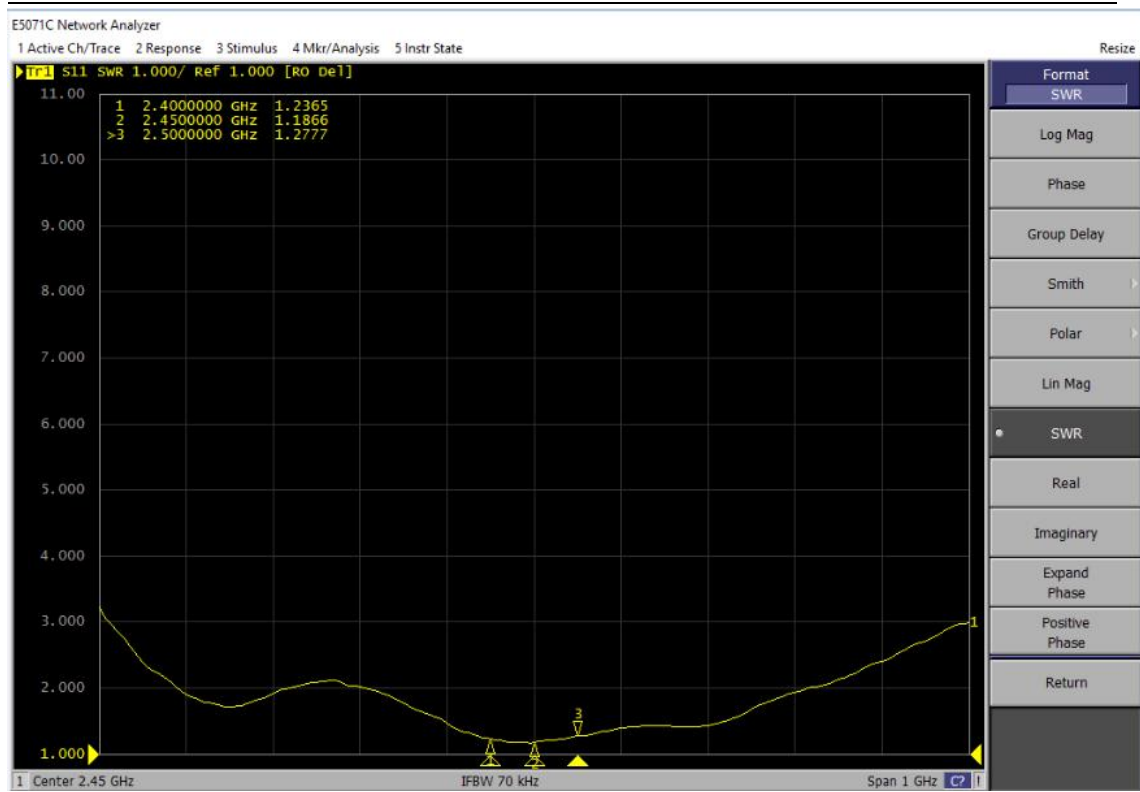
Environment:	Equipment:
Temperature: 10℃——+30℃	Network Analyzer KEYSIGHT E5071C
Humidity: ≤80% (+40℃)	24 Probe Microwave Anechoic Chamber
Atmospher: 750mmkg±30mmkg	

4.22 Test Data for Electrical Performance:

4.22.1 S11 of the Antenna:

Marker (MHz)	2400	2450	2500
Returnloss	-19.36	-21.42	-18.88
VSWR	1.23	1.18	1.27

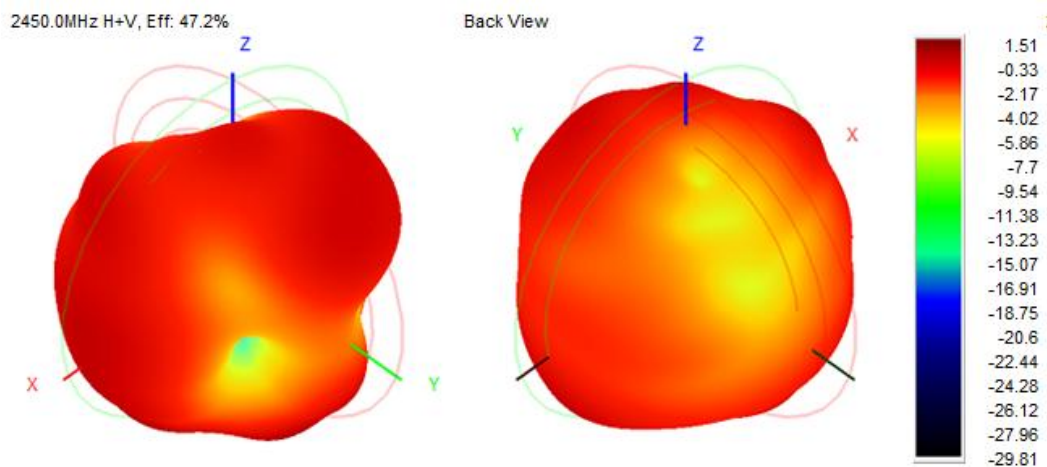




4. 22. 2 Passive gain、 efficiency and Radiation Pattern:

频率 (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	1.50	1.42	1.30	1.21	1.32	1.51	1.50	1.42	1.46	1.49	1.45
Efficienc (%)	52.5	52.1	51.0	50.3	50.8	51.1	50.9	51.2	50.6	50.5	51.3

2450MHz:





6. Document Resume

Document No.	
Release Date	2023/07/27
Author	XiofengZeng
Review	LiMing

Revised History

Date	Version	Revised Record
2023/07/27	1.00	New Project