



Shenzhen Shuodian Electronic Technology Co.,Ltd

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规格书Specification Sheet

for

2.4G 弹簧天线2.4G Spring Antenna

客户料号Customer Part Number

本公司料号Company Part Number

ZY-弹簧-2.4G-Spring

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Shenzhen Shuodian Electronic Technology Co.,Ltd



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1.双方确认Confirmation by Both Parties

1.1 客户确认签字Client Confirmation Signature

客户Client:

Client Department/Position	Confirming Signatory	Signature Date
Hardware/RF		
Structural		
Project Manager		
Commercial/Procurement		
Review		

1.2 铄点科技确认签字Shuodian Technology Confirmation Signature

Department/Position	Confirming Signatory	Signature Date
Antenna Engineer		
Structural Engineer		
Project Manager		
QA		
Review		



2.一般事项General Provisions

2.1 适用范围Scope of Application

本规格书只适用于2.4G 弹簧天线This specification applies solely to 2.4G spring antennas.

2.2 使用温度范围Operating Temperature Range

This product operates within a temperature range of 20 ~ +65 °C

2.3 保存温度范围Storage Temperature Range

This product should be stored at temperatures between -30 ~ +75 °C

3.产品一般规格General Product Specifications

NO.	ITEMS	DETAILS
1	ITEMS DETAILS	2.4G
2	Frequency Band	2400-2500MHz
3	VSWR	≤3.0 ;
4	Impedance	50 Ω
5	Antenna Type Monopole	单极
6	Antenna Implementation Spring	弹簧
7	Antenna Image	



4.产品规格明细Product Specification Details

4.1 产品结构参数Product Structural Parameters

4.11 产品物料组成Product Material Composition:

Serial No.	Material	Specification (MM)
1	Brass wire	17*5*0.8 Wire diameter

4.12 外观Appearance

The product exhibits a satisfactory appearance, free from defects such as scratches, sweat marks, or protrusions that significantly impair its visual quality.

4.13 结构尺寸Structural Dimensions



4.2 产品电性能测试数据Product Electrical Performance Test Data

4.21测试环境及仪器设备Test Environment and Instrumentation

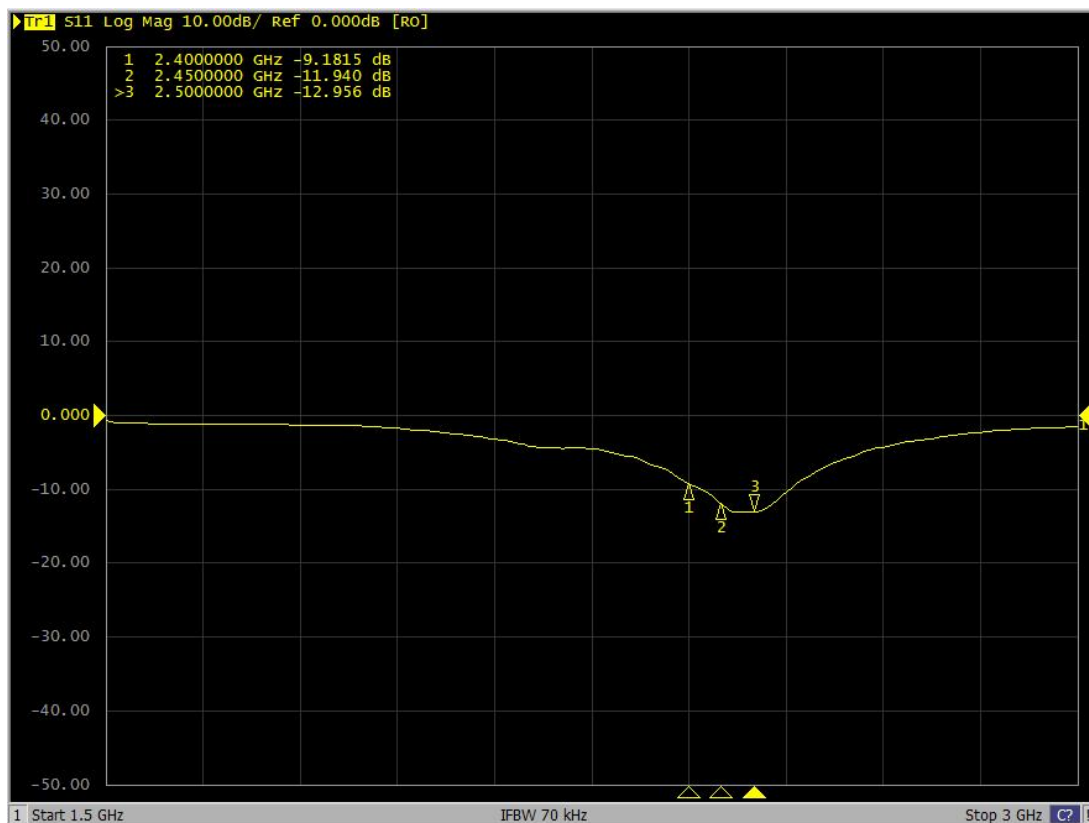
Test Environment:	Test Equipment:
Temperature: 10℃——+30℃	Network Analyser
Relative Humidity: ≤80% (+40℃)	KEYSIGHT E5071C
Atmospheric Pressure: 750mmkg±30mmkg	Multi-probe Full-wave Anechoic Chamber

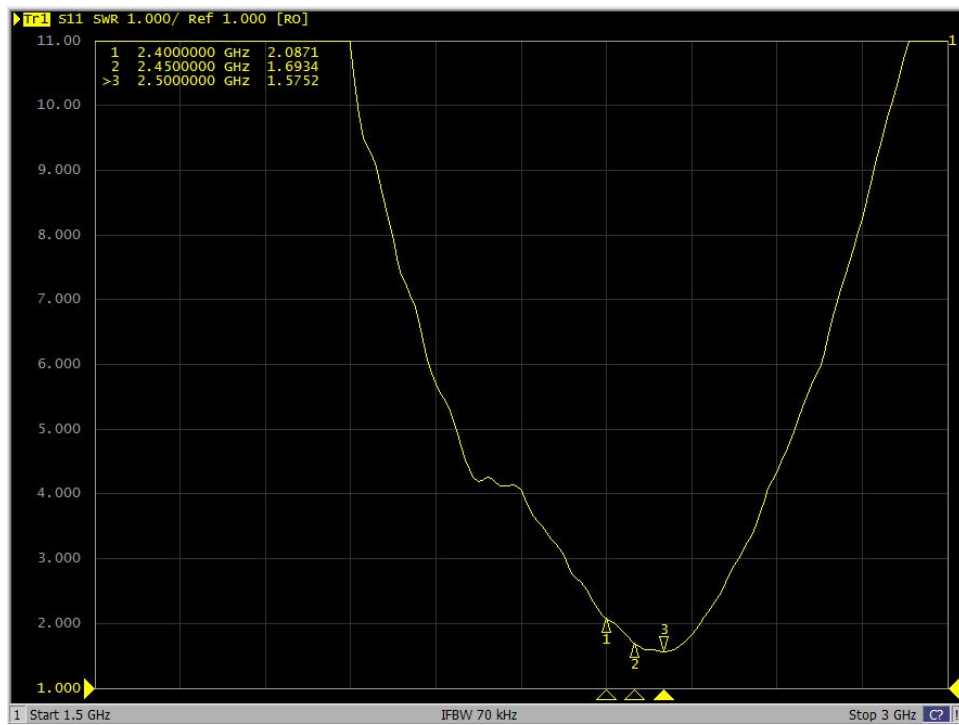
4.22 产品电性能测试数据Product Electrical Performance Test Data:

4.22.1 产品的S11 图Product S11 Diagram:

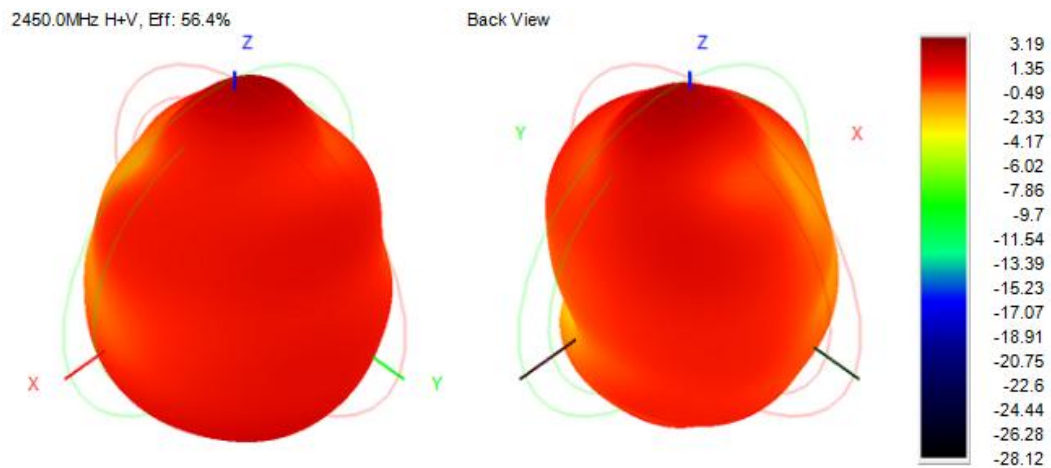
大尺寸 S11 数据Large-scale S11 Data:

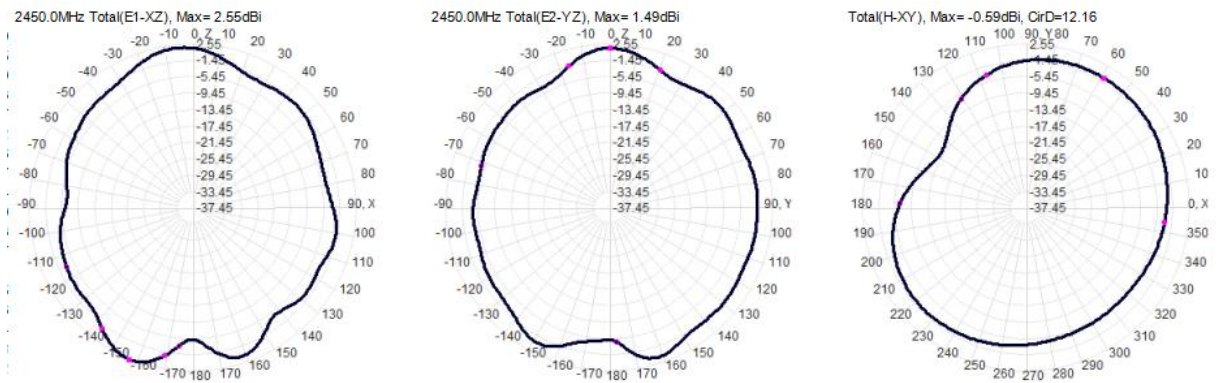
Marker (MHz)	2400	2450	2500
Return Loss	-9.18	-113.94	-12.95
VSWR	2.08	1.69	1.57





频率 (MHz)	2400	2410	2420	2430	2440	2450	2460	2470	2480	2490	2500
Gain (dBi)	1.64	1.53	1.49	1.67	1.98	2.19	2.39	2.63	2.60	2.80	2.82
Efficiency (%)	48.43	49.28	49.69	51.54	54.41	56.42	58.49	61.48	60.88	62.13	60.06





5. 产品包装方式Product Packaging Method

包装方式Packaging Method:

Self-sealing pouch packaging, 200 pieces per pouch.



6. 文档履历Document History

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编制 Author	Hungjie
复核 Review	WH

文件历次表

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2025/5/20	1.00	New Project