

产品说明书

PRODUCT MANUAL

品 名: 2.4G 弹簧天线 2.4G Spring Antenna
Antenna Name:

料 號: SM-B52
Model Name:

客戶料號:

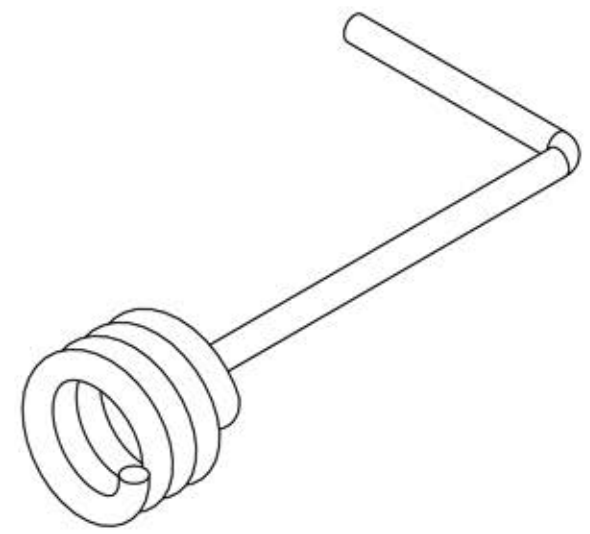
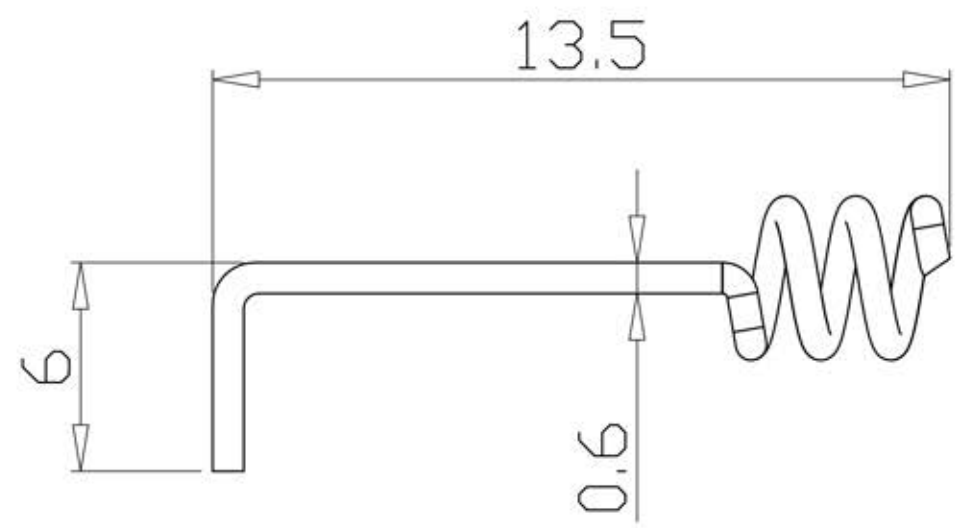
送樣日期: 2024. 10. 23
Test Date:

Shenzhen Lifite Electronic Co., Ltd.
Building 4, 7th Floor, SEG Technology Park, Licun Community,
Huaqiangbei Street, Futian District, Shenzhen, China

深圳力狮特电子有限公司

RoHS
Compatible

序号	日期	原因	确认人
B			
C			
D			



弹簧技术要求

公差:

弹簧材料	铜丝 (磷铜)	直径	0.6mm
旋转方向	右旋	旋转有效圈数	3T
出脚方式	中间出脚	引脚长度	6mm
弹簧上部尺寸			
弹簧下部尺寸			
弹簧高度			

PART NAME: 2.4G 弹簧天线			
PART NO.: HX-B98T .W01			DATE: 2024-10-22
APPROVED BY	CHECKED BY	DESIGNED BY	Tolerance X.X ±0.50 X.XX±0.15 X° ±3°
邱平福	李俊	罗晓晖	
2024.10.22	2024.10.22		
			UNITS: mm
			SCALE: 1/1
			REVISION:A

Index:

- 1. Reliability Testing**
- 2. Specification**
- 3. S Parameter Test Data**
- 4. Antenna Radiation Pattern**

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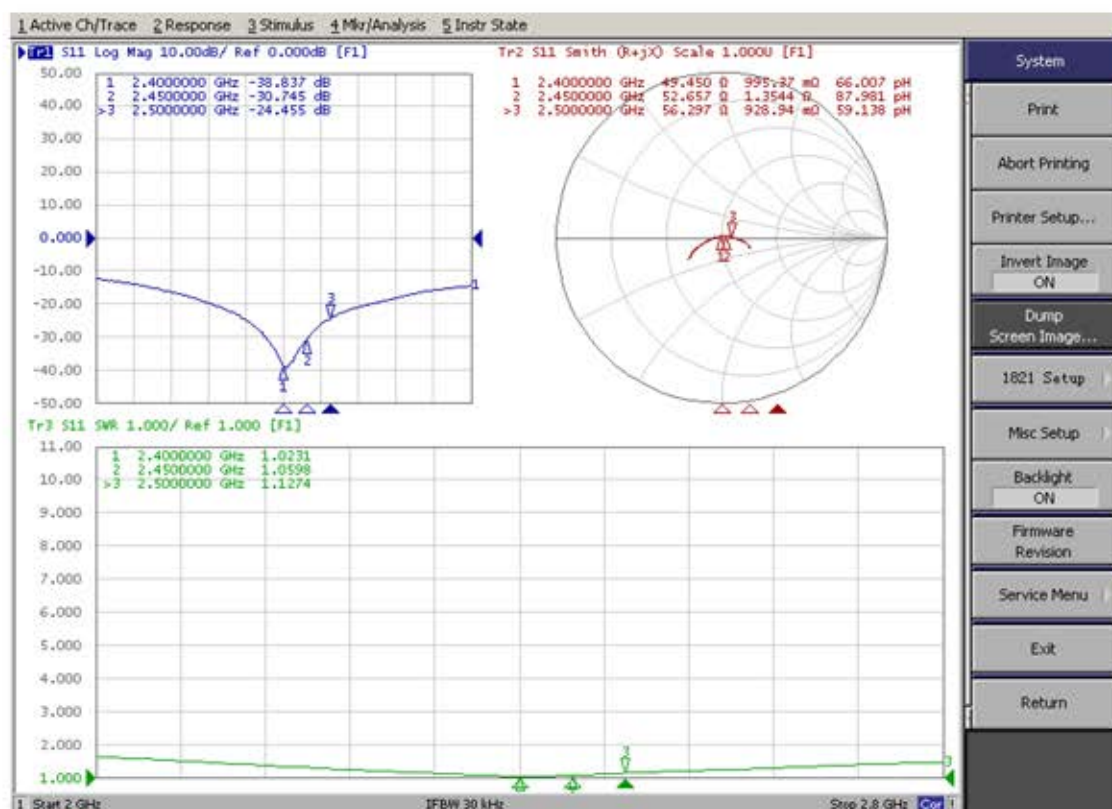
1. Reliability Testing

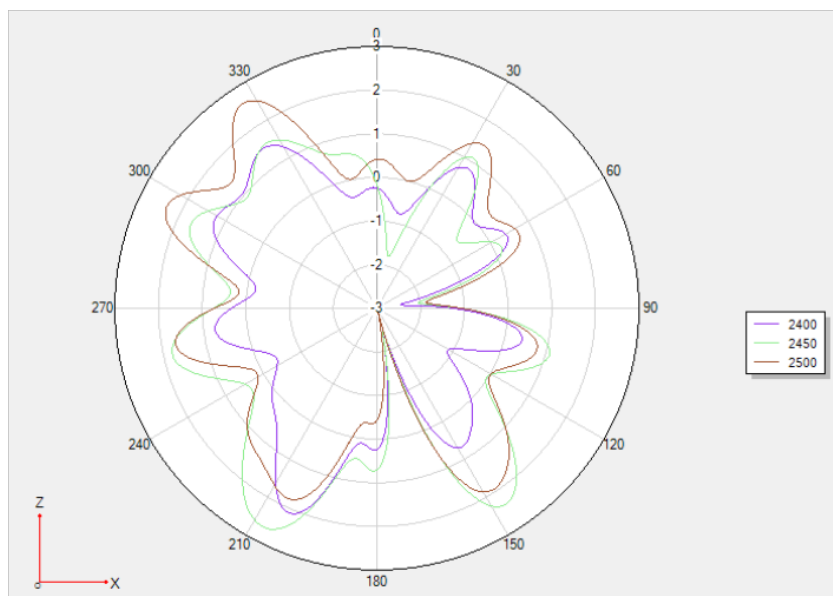
Test Item	Procedure	Requirement
1. Visual inspection and Dimension Check	Applicable methods using x5 magnification	follow specification
2. Rapid Changing of Temperature	-40°C (30minutes) to 80°C (30minutes); 24 cycles	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
3. Damp Heat	24 hours at 60°C; 90 ~ 95% RH	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
4. Endurance	24 hours at 80°C	After 2 hours recovery: 1. no visible damage 2. bandwidth tolerance < ±5%
5. Connector Pull Strength Test	>= 1.0 Kg	Hold 2~3S: 1. no visible damage 2. bandwidth tolerance < ±5%

2. Specification

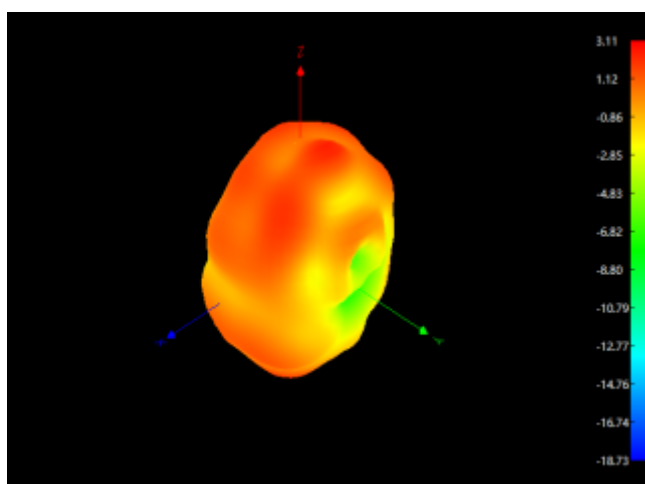
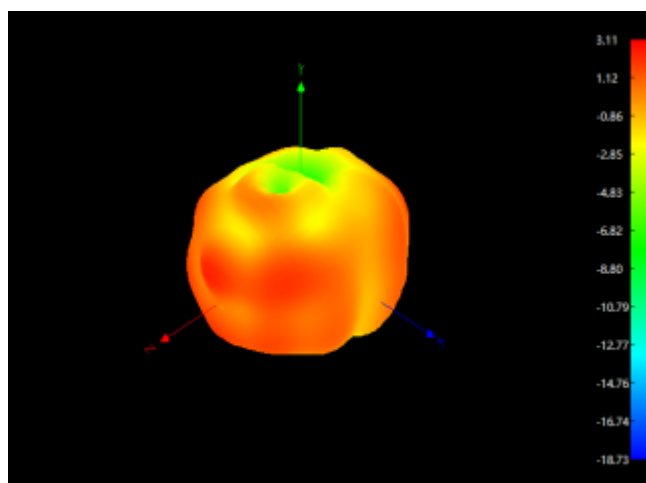
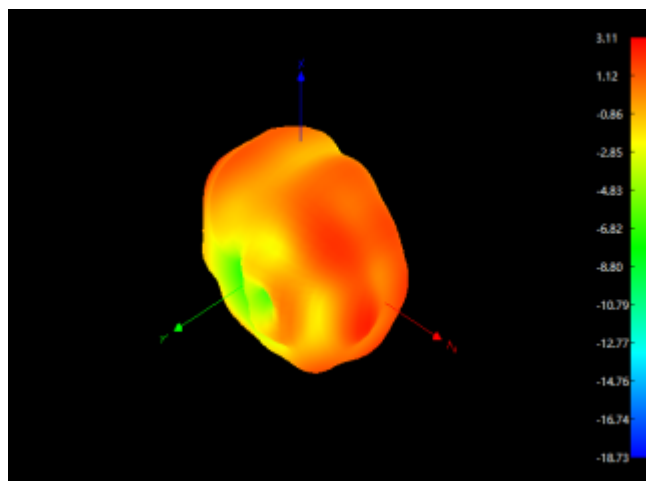
A. Electrical Characteristics	
S.W.R.(Tested in PC)	≤ 2.0 @ 2400~2500 MHz
Typical Antenna Gain	$+1 \pm 0.7\text{dBi}$ @ 2450 MHz
Impedance	50 Ohm
B. Material	
Material of Radiator	CU
Cable Length	N/A
Connector Type	Mini
C. Environmental	
Operation Temperature	- 40 °C ~ + 85 °C
Storage Temperature	- 40 °C ~ + 85 °C

3. S.W.R. Testing Result





Frequency	MaxValue	MaxPosition	MinValue	MinPosition	BeamWidth	FrontBack Ratio	PatternRipple
2400	2.11	-157	-2.47	81	257	2.12	4.58
2450	2.65	-153	-2.5	167	185	1.99	5.15
2500	2.61	-34	-2.89	168	250	0.69	5.5



4. Antenna Radiation Pattern

Testing Equipment Specification:

Antenna Anechoic Chamber Dimension: 8 x 4 x 4 m

Quiet Zone: 600mm @1 GHz

Isolation: >100dB @ 1 MHz ~ 10 GHz

Testing Equipment: Agilent 5071B

Received Antenna: 0.7 ~ 6.0 GHz for Gain Calibration

Double Ridged Horn Antenna

