

Data Sheet

Product : Antenna

Date: Nov 10, 2025

Customer Applied model	WIFI Antenna		
Customer			
Customer Part No.			
Product Description	Antenna		
Supplier	saixun		
Supplier Part No.	SX-002-2217		
Customer	By designed	By Checked	By Approval

Catalogue

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Revision History

Revision No.	Originator	Description of changes	Date of changes
1		First document	Nov 10, 2025
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			

1 General

Electrical Properties	
Frequency Band	2.4/5.8GHz
Test Frequency	2.4-2.5/5.15-5.85GHz
VSWR	≤ 2.5
Efficiency	Refer to test report
Gain	Refer to test report
Radiation Pattern	Omni-Directional
Polarization	V/H
Antenna Type	Dipole
Mechanical Properties	
Antenna Dimension	127 mm
Connector Type	I-PEX I
Connector pull	10 N min
Cable Type	RF 1.13
Installation site	Machine inside
Environment Properties	
Operational Temperature	-40°C ~ +85°C
Storage temperature	-30°C ~ +60°C

2 Test Data

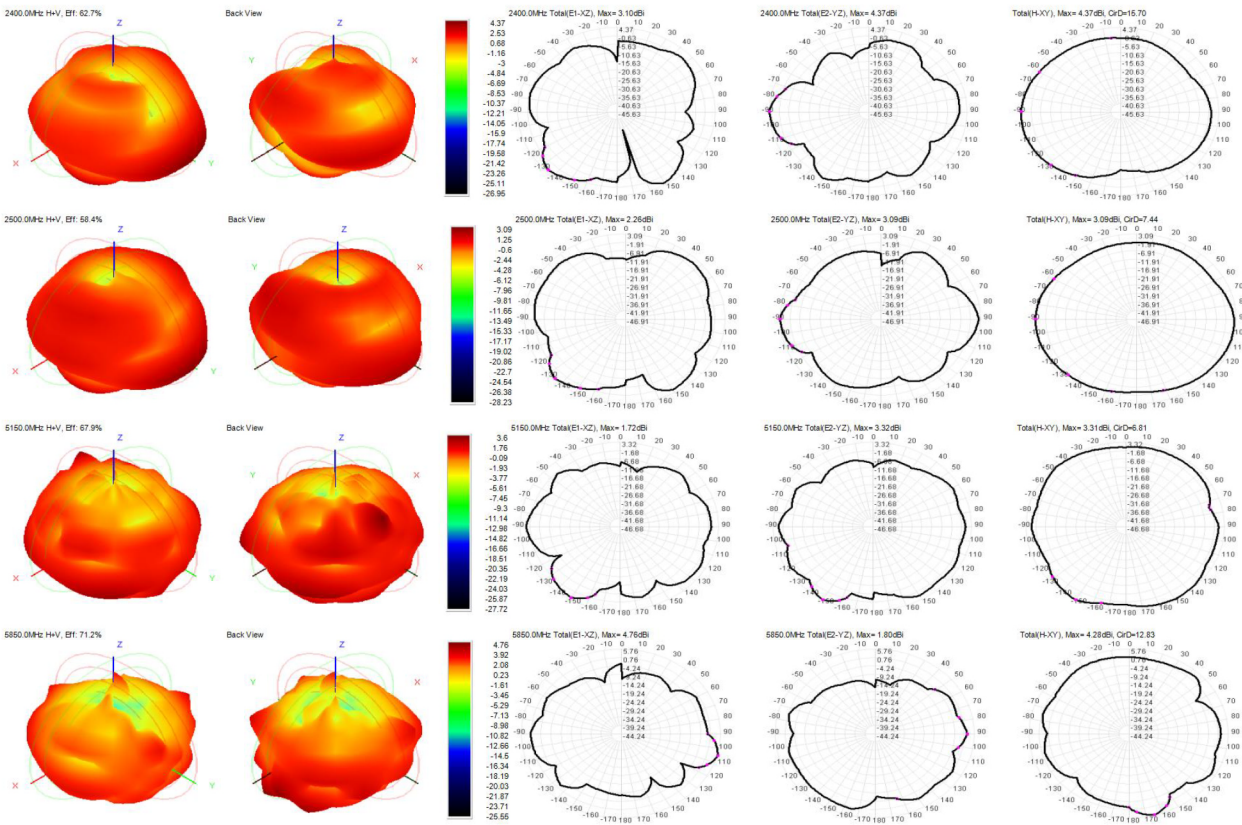
2.1 Network Data (Return loss)



2.2 Gain and Efficiency

Frequency ID	1	2	3	4	5	6
Frequency (MHz)	2400.0	2450.0	2500.0	5150.0	5550.0	5850.0
Efficiency (dBi)	-2.03	-1.97	-2.33	-1.68	-1.55	-1.48
Gain (dBi)	4.37	4.15	3.09	3.60	4.66	4.76
Efficiency (%)	62.73	63.58	58.42	67.89	69.98	71.19

2.3 Radiation pattern



3 Mechanical Drawings

工程设计变更记录

日期	版本	ECR	申请人	变更内容与说明
2023/07/11	A			首次正式发行

10.5

127±2

8.9

*170±5

说明:

- 带*符号为重点尺寸。
- 本制程及原物料符合ROHS。
- 电气特性:
阻抗 50欧姆
频率 2.4-2.5GHz/5.18-5.85GHz
VSWR <3.0
- 端子为国产1.13一代, 方向不做管控。
- 天线可弯折0-45-90° 角度, 且手感明显。
- 同轴线焊接端, 保证镀锡质量。
- 成品外观按赛讯《外观检验标准》。

品名	客户料号	赛讯料号	规格
刀锋天线	004.09.000.0171	SX-002-2217	黑色外壳, 国产端子1.13黑线, L=170mm

XXX.	±2.0	单位	mm	类别	成品图
XX.	±1.0 <th>视角</th> <td></td> <th>图号</th> <td></td>	视角		图号	
X.	±0.5 <th>版本</th> <td>A</td> <th>工程</th> <td></td>	版本	A	工程	
.X	±0.2 <th>比例</th> <td>1/1</td> <th>品质</th> <td></td>	比例	1/1	品质	
.XX	±0.1 <th>日期</th> <td>2023/07/11</td> <th>核准</th> <td></td>	日期	2023/07/11	核准	

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