

Recognition

Customer : Lingdu

Product name: K03-NX

Antenna name: K03-NX-2.4G-V1.0-JXT 2023-11-15

Product specifications : WIFI2.4G

Date of issue: 2024-03-07

Manufacturer : Shenzhen JieXunTong

Wireless Communication Co.,Ltd

Address:

**409, Building A, Jihao Science
Park, Hanghang Road, Hangcheng
Street, Baoan District, Shenzhen**

Manufacturer Recognition Column:

Proposed	Operations	Structure	Ratification

Customer Recognition Column:

Confirmation	Audit	Ratification

Revision History

Version	Date	Author	Note
1.0	2023-3-8	Guo Meilin	First official release

Contents

About the Document.....	1-3
Contents.....	4-13
1 Product Description.....	4
2 Product Features.....	4
3 Product Specifications.....	5
4 Overall Performance	6-12
4.1. Test Environment.....	6
4.2. Matching Circui.....	7
4.3. VSWR.....	8
4.4. Efficiency.....	9
4.5. Gain	10
4.6. Radiation Pattern	11
4.7. OTA test data	12
5 Product Size.....	13

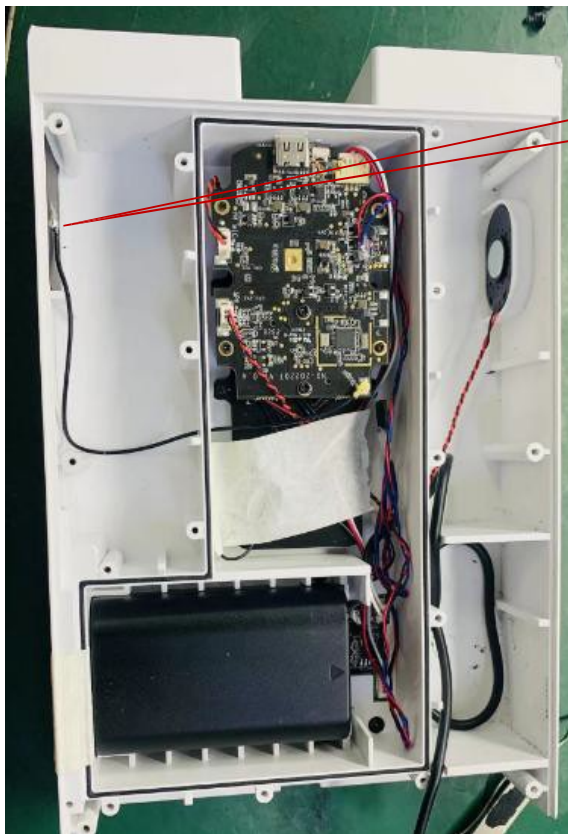
1 Product Description

The antenna is designed for superior performance, and can be widely used for wireless applications.

We provide comprehensive antenna design support such as simulation, testing and manufacturing for custom antenna solutions to meet your specific application needs.

2 Product Features

- 2.4G
- High efficiency
- Excellent performance



ANT



3 Product Specifications

Passive Electrical Specifications

Frequency Range	2.4G: 2400-2500MHz
Input Impedence	50 Ω
VSWR	≤ 1.2
Gain	$\leq 3.09\text{dBi}$
Polarization Type	Linear

4 Overall Performance

4.1. Test Environment

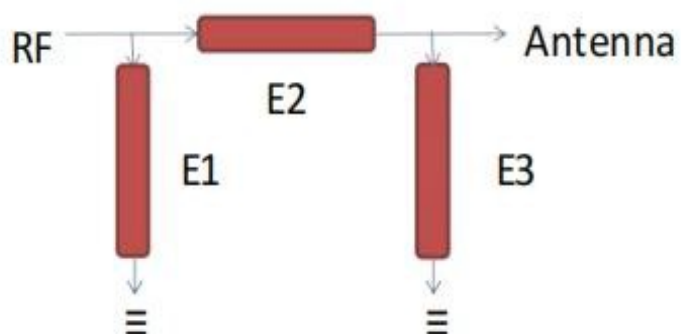
- KEYSIGHT VNA Network Analyzer E5063A 100 kHz – 8.5 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 8.0 GHz



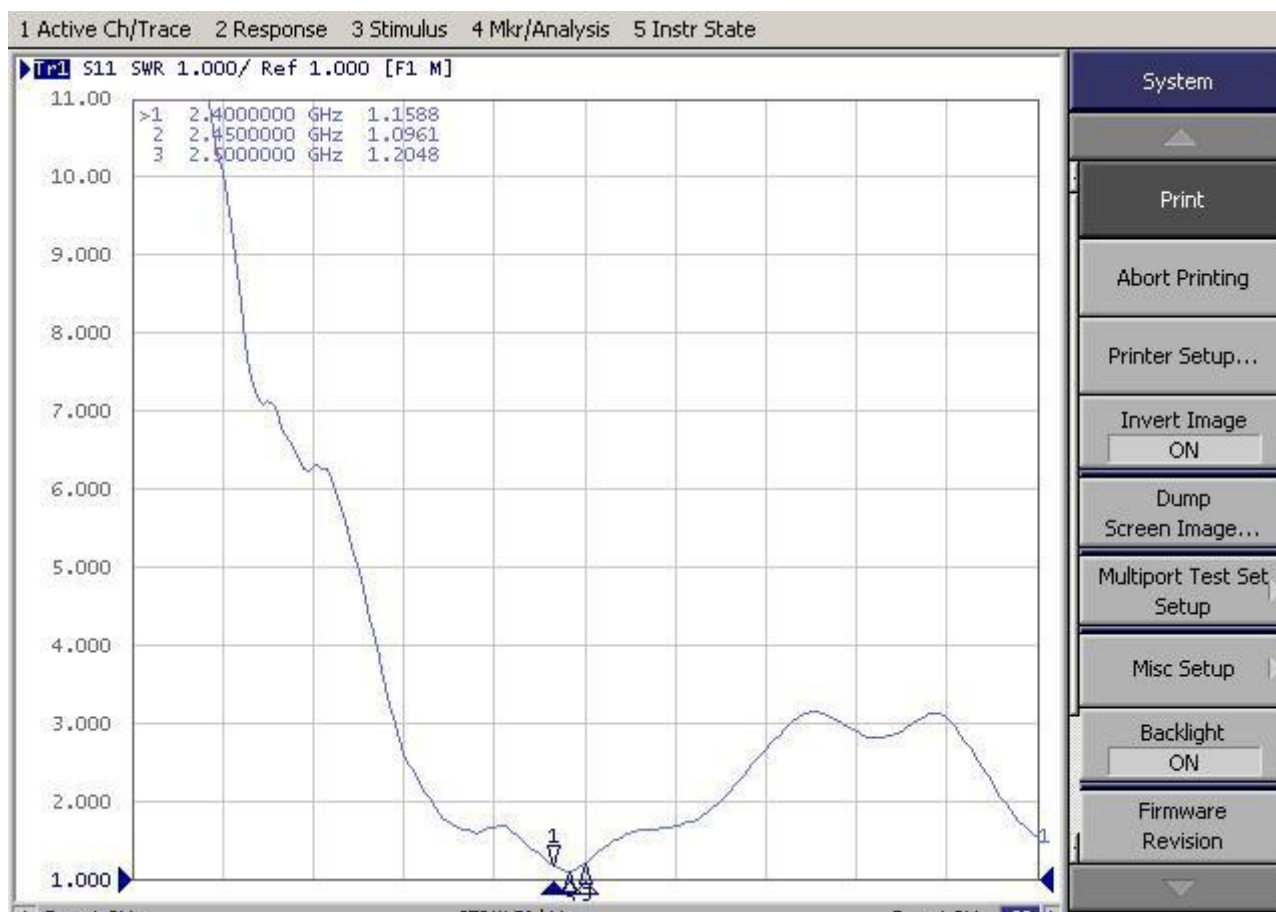
Other description:

4.2. Matching Circui

E1	E2	E3
NA	0欧姆	NA



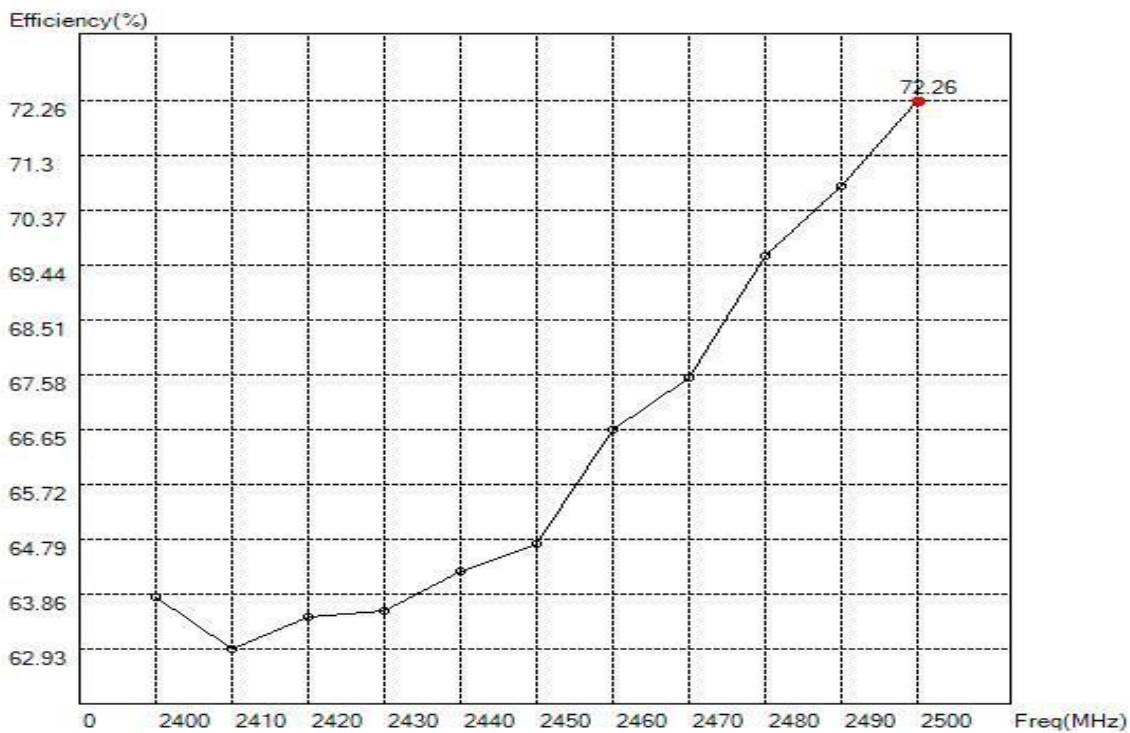
4.3. VSWR



Frequency (MHz)	2400	2450	2500
VSWR	1.15	1.09	1.20

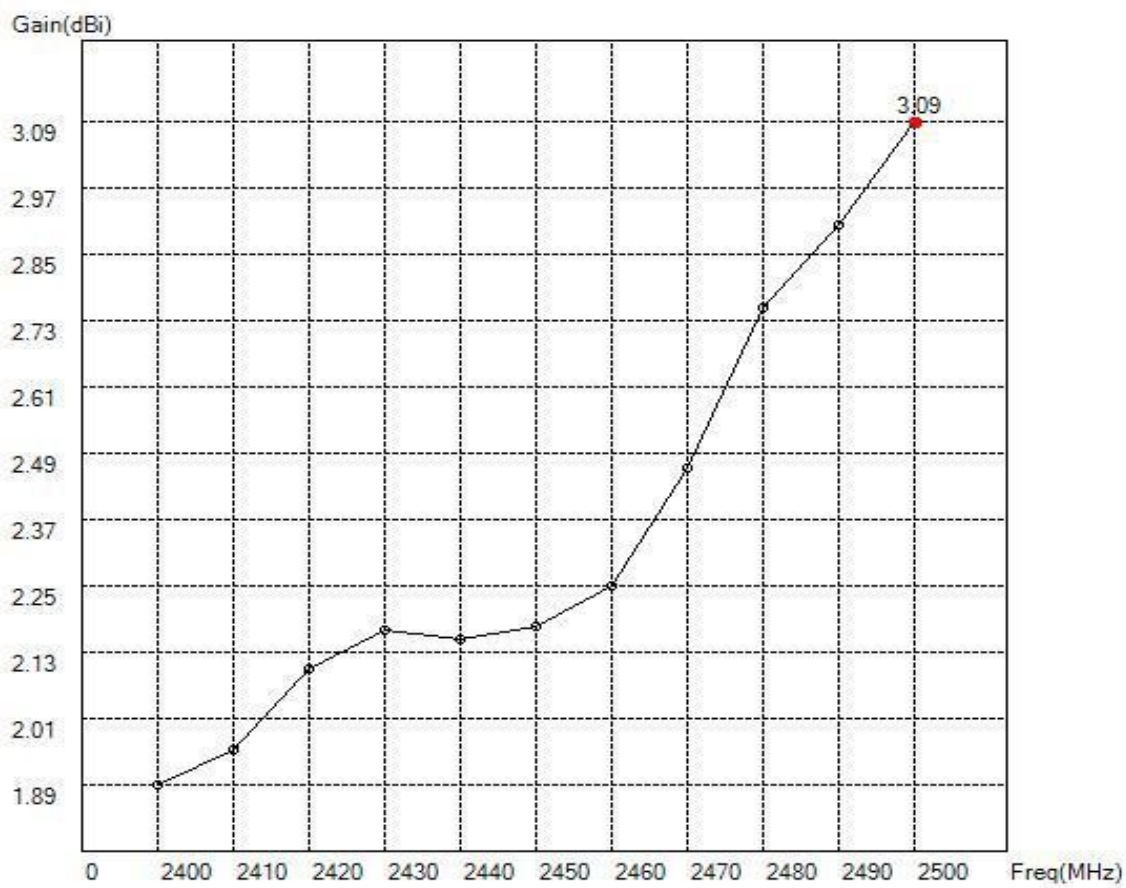
4.4. Efficiency

Freq (MHz)	Gain (dBi)	Efficiency (dB)	Efficiency (%)
2400	1.887981083	-1.951477236	63.80464202
2410	1.950571441	-2.011383131	62.93057311
2420	2.096757872	-1.97403769	63.47405312
2430	2.168826835	-1.967589112	63.56837194
2440	2.151081672	-1.921574092	64.24548187
2450	2.172701087	-1.890569437	64.70577695
2460	2.247139273	-1.761903936	66.65145068
2470	2.459773873	-1.703829024	67.54871592
2480	2.7512881	-1.572282098	69.62605521
2490	2.900548769	-1.499427137	70.80391732
2500	3.09	-1.411130668	72.25816579



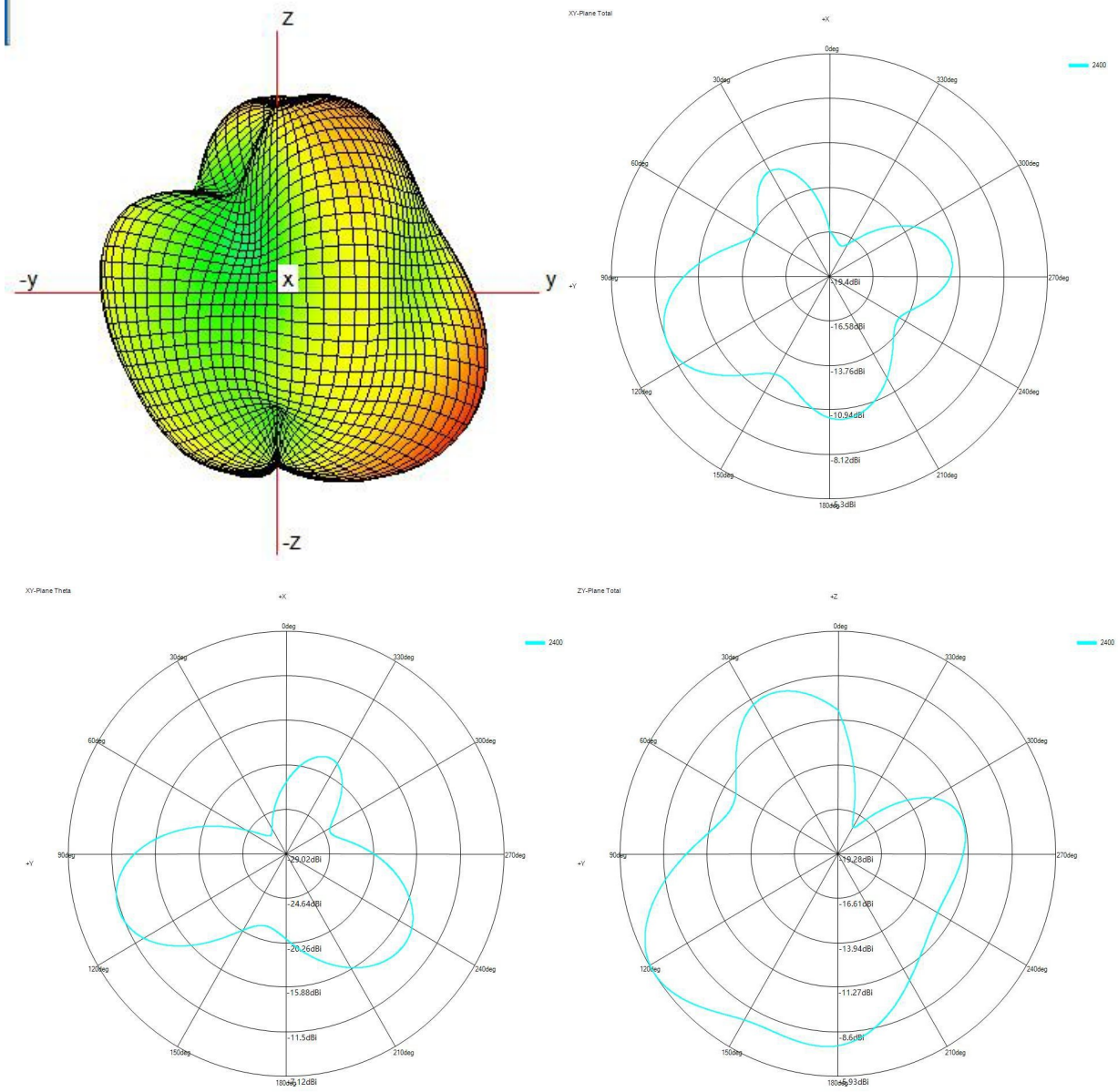
Frequency (MHz)	2400	2450	2500
Efficiency (%)	63.8	64.8	72.2

4.5Gain



Frequency (MHz)	2400	2450	2500
Gain (dbi)	1.88	2.17	3.08

4.6 Radiation Pattern



4.7 OTA test data

2.4G

b			g			gn		
CH	TRP	TIS		TRP	TIS		TRP	TIS
1	18.24	-83.72	1	16.58	-73.94	1	16.38	-70.75
6	18.07	-83.84	6	16.64	-74.22	6	16.52	-70.21
11	17.81	-83.55	11	16.70	-73.56	11	16.49	-69.88

5.Product Size

