



东莞市仁丰电子科技有限公司

Dongguan RF Electronic Technology Co., Ltd

公司地址：东莞市塘厦镇清湖头三坑工业区1号 电话：0769-38940168 传真：0769-39010966 网址：http://rflink.net.cn

acknowledgement

SPECIFICATION FOR APPROVAL

Customer Name: Fengjing M3 S

Product name

PRODUCT NAME:2.4 GHz Built-in Antenna L=50 mm+Terminals

Customer Document
Number

CUSTOMER P/N:

Renfeng Material Number

Ren Feng P/N: U00T02S000N01619 REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Yang Zhen	
AUDITOR BY:	Song Jun	
APPROVED BY:	Yao Dingjun	
DATE:	2023-01-03	



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Contents

Item

Description

I. -----Change History

II. Specification Table

III. -----Final Product Image

IV. -----Test Report

V. ROHS/Raw Material List



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I. Change History

Edition	Date	Change Record
A	2023-01-03	First Edition Release



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II. Specification Table:

Main Technical Specifications of the Product

The key technical indexes		Main technical specifications	
Frequency Range (MHz)	2400~2500	Frequency Range (MHZ)	2400~2500
Characteristic impedance (Ω)	50	Impedance(Ω)	50
Peak Gain (dBi)	4.48	Peak Gain(dBi)	4.48
Output Voltage Standing Wave Ratio	≤ 2.0	VSWR	≤ 2.0
Polarization Method	Vertical polarization	Polarization	Linear, Vertical
Directionality	Omnidirectional	Radiation	Omni-directional
Connection Method	Cable+ terminal	Connector Type	Cable+ terminal
Physical property		Physical Properties	
Antenna outer casing material	PCB	Antenna cover	PCB
Working temperature	-20℃~+70℃	Operating Temp	-20℃~+70℃
Storage Temperature	-20℃~+70℃	Storage Temp	-20℃~+70℃

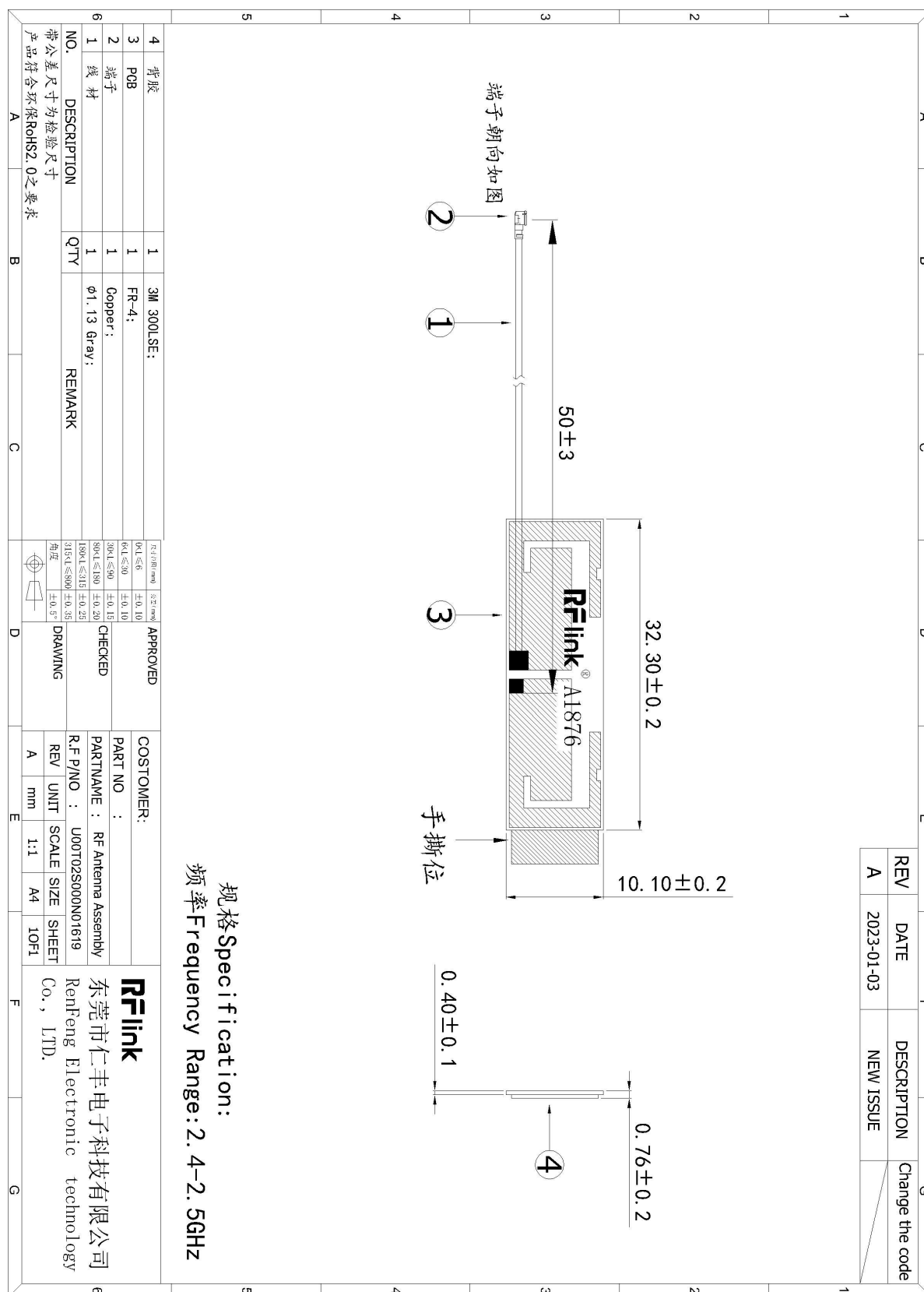


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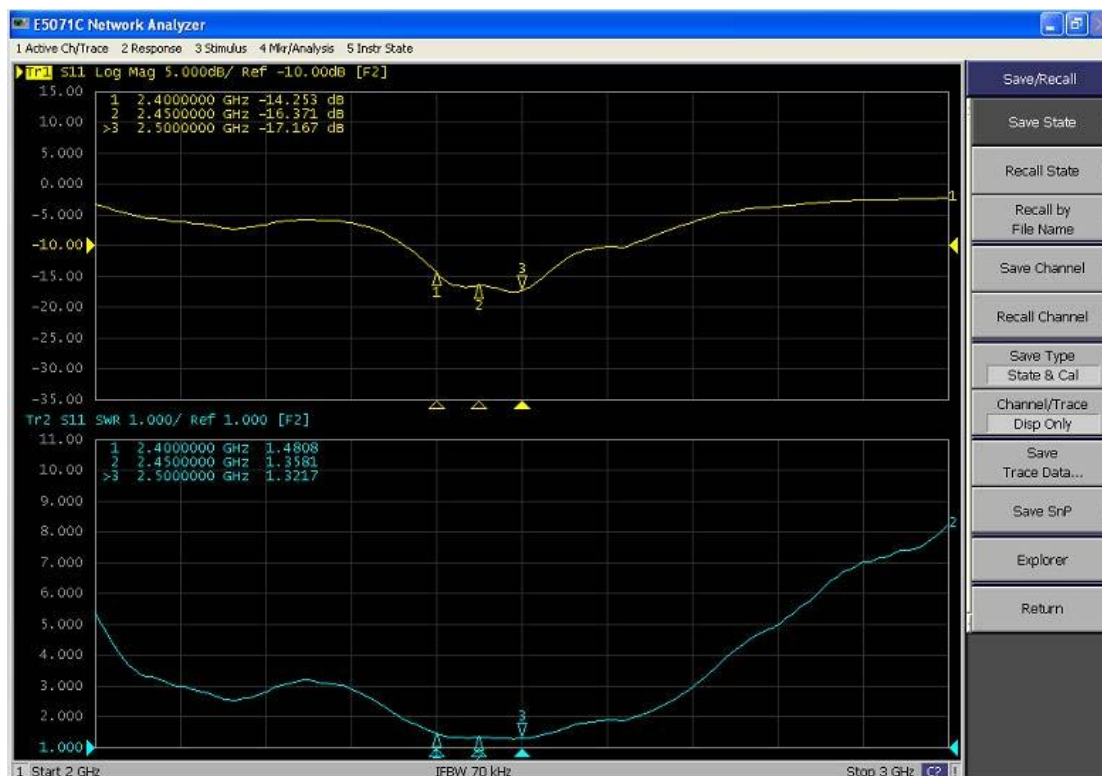
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III. Final Product Diagram:



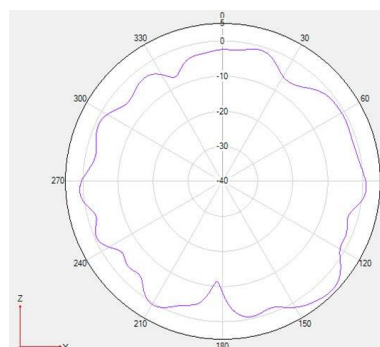
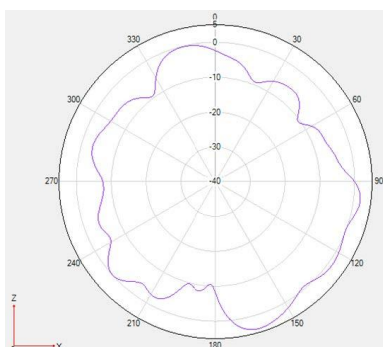
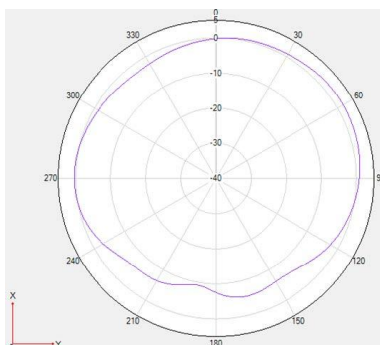
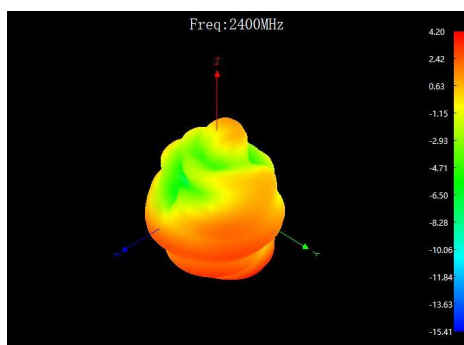
IV. Test Report

4.1: Network Analyzer Test Report

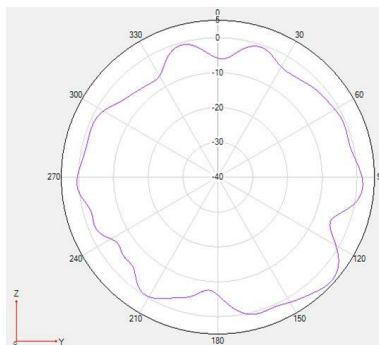
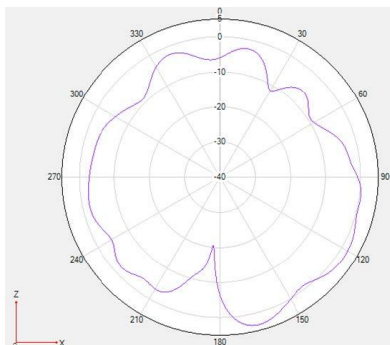
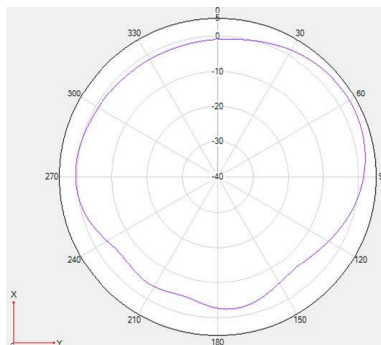
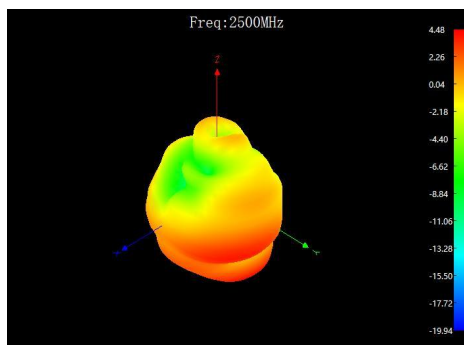


4.3: Darkroom 2D and 3D Radiation Patterns

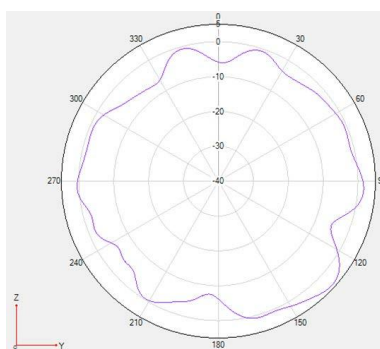
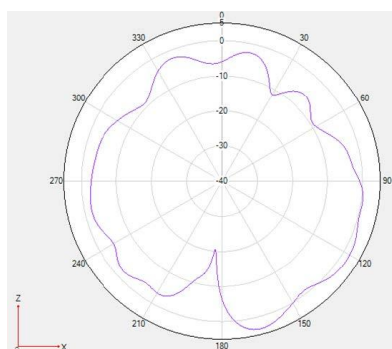
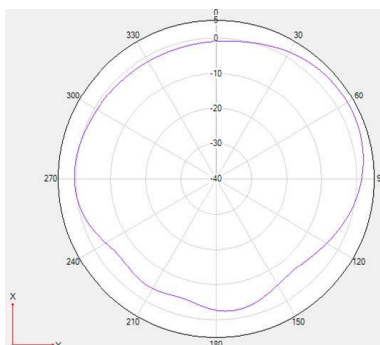
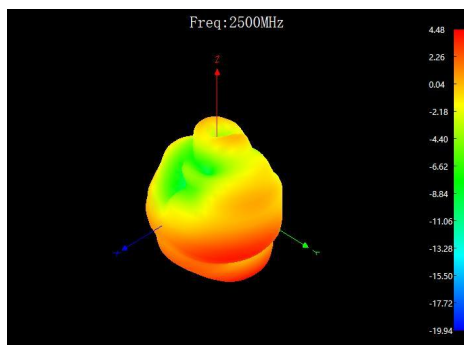
2400MHz



2450MHz



2500MHz



Freq (MHz)	Effi (%)	Gain (dBi)
2400	65.34	4.2
2410	65.98	4.21
2420	66.79	4.28
2430	64.12	4.14
2440	63.68	4.22
2450	65.61	4.14
2460	64.66	4.07
2470	62.16	3.94
2480	62.29	4.12
2490	63.12	4.26
2500	63.67	4.48

OTA

模式		信道	速率	数据
b	TRP	1	11MBps	18.22
		6	11MBps	18.5
		11	11MBps	19.01
	TIS	1	11MBps	-88.61
		6	11MBps	-89.66
		11	11MBps	-88.88
g	TRP	1	6MBps	15.94
		6	6MBps	16.26
		11	6MBps	16.86
	TIS	1	54MBps	-75.8
		6	54MBps	-76.53
		11	54MBps	-76.69
n	TRP	1	MCS0	15.83
		6	MCS0	16.02
		11	MCS0	16.97
	TIS	1	MCS7	-71.76
		6	MCS7	-73.4
		11	MCS7	-71.43

V. ROHS/Raw Materials List:

Complies with RoHS requirements.

Component Number	Component Name	The raw material group consists of the following materials:	Make use of Quantity	Unit	Material Manufacturer	UL Certification Number	Remarks
1	Terminal	Phosphor bronze	1	pc	Kexin Cheng/Caimei	/	
2	Wire stock	Tin-plating /FEP	1	pc	Shenyu/Hailian Tong	/	
3	PCB	FR-4	1	pc	Hongyun/Xin Gaoqiang	/	
4	Double faced adhesive tape	3M300LSE	1	pc	Soaring	/	