



好天线 · 优比造

东莞市优比电子有限公司

Dongguan Youbi Electronics Co., Ltd

承 认 书

APPROVAL SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称

PRODUCT NAME: 2.4G FPC 内置天线

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01NF1D1521A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy	
APPROVED BY:	工程专用章 Changxing. Liu	
DATE:	2024/12/4	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2024-12-4

Content

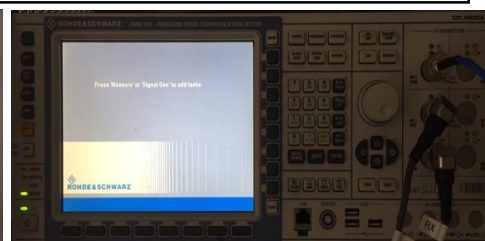
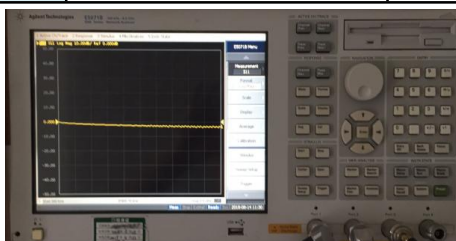
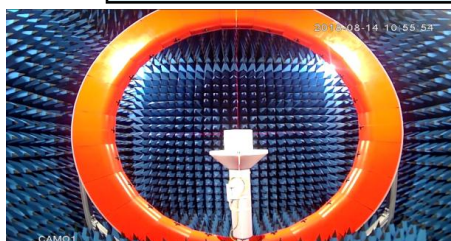
<i>Item</i>	<i>Description</i>
1.-----	Electrical Specification
2.-----	Test Items and Equipment
3.-----	S Parameter
4.-----	Efficiency and Gain
5.-----	Radiation Pattern
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	24.75x11.7	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 3	
Polarization	Linear Polarization	
Gain	2.74 MAX	dBi
Efficiency	>40	%
Connector Type	/	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

2. Test Items and Equipment

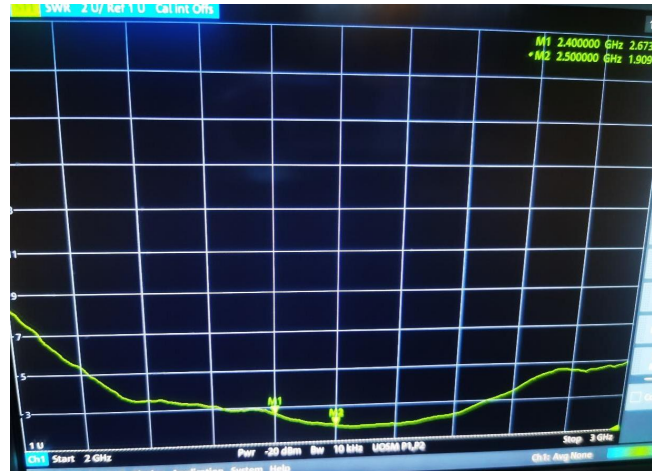
	Test items	Test equipment
S Parameter	1.Return Loss 2.VSWR	Network analyzer (Agilent E5071B)
The whole machine of Passive parameters	1.Frequency 2.Gain 3.Radiation Pattern	1.3D microwave darkroom (5m*5m*5m) 2.Network analyzer (Agilent E5071B)
The whole machine of Active parameters	1.TRP 2.TIS	1.3D microwave darkroom (5m*5m*5m) 2.Comprehensive test instrument (CMW500)



3. S Parameter

Frequency (MHz)	VSWR
2400	2.67
2500	1.90

* Voltage Standing Wave Ratio(VSWR)
Return Loss(RL)
 $RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$



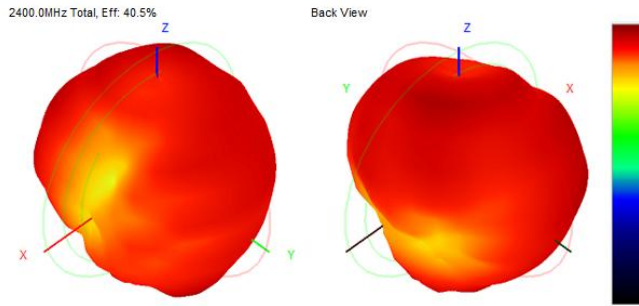
4. Efficiency and Gain

Frequency / MHz	Efficiency (dBi)	Efficiency / %	Gain/ dB
2400.0	-3.92	0.70	40.54
2410.0	-3.64	0.98	43.26
2420.0	-3.51	1.13	44.59
2430.0	-3.37	1.92	46.03
2440.0	-3.30	2.17	46.81
2450.0	-3.13	2.17	48.59
2460.0	-3.00	2.12	50.12
2470.0	-2.86	2.35	51.75
2480.0	-2.93	2.46	50.98
2490.0	-3.06	2.64	49.44
2500.0	-3.08	2.74	49.23

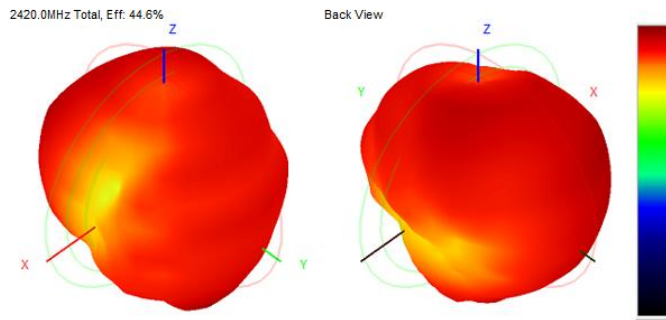
5. Radiation Pattern

3D Pattern

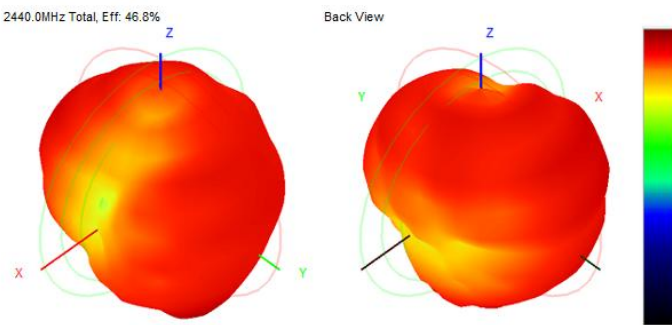
2.4G



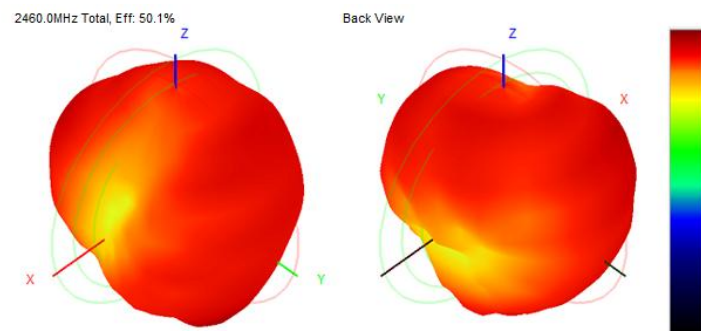
2.42G



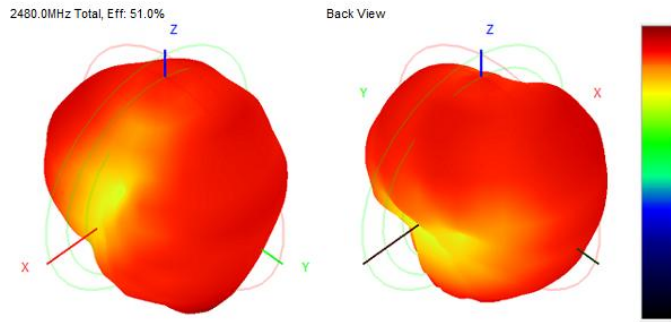
2.44G



2.46G

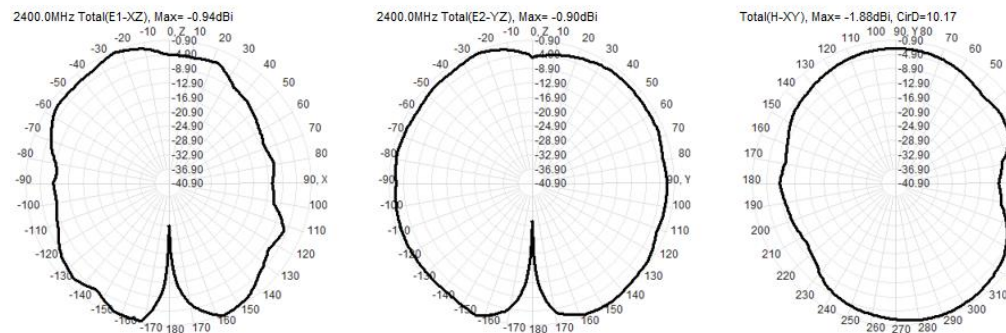


2.48G

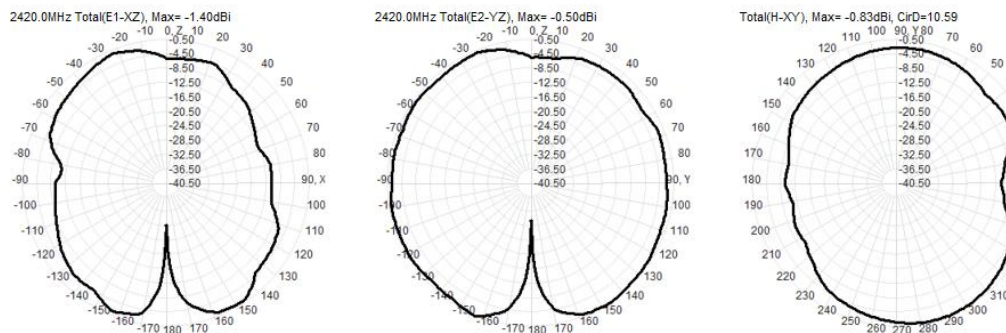


2D Pattern

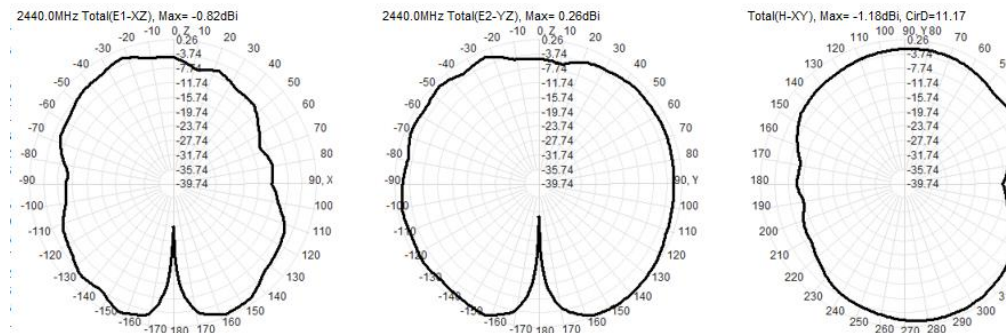
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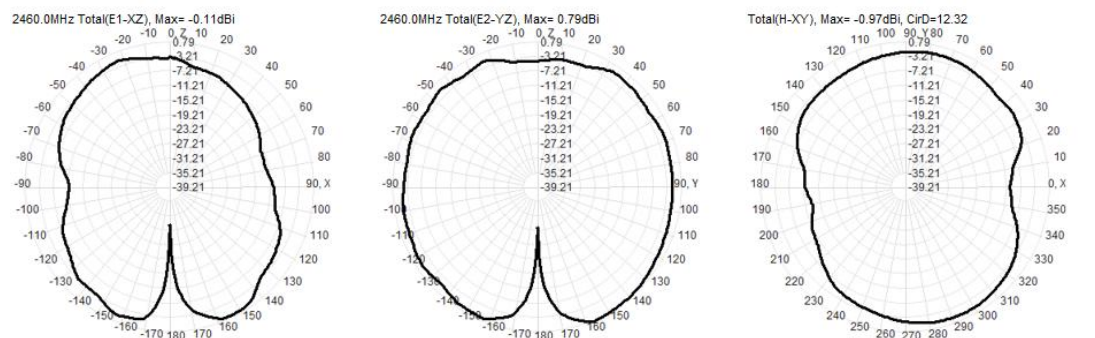
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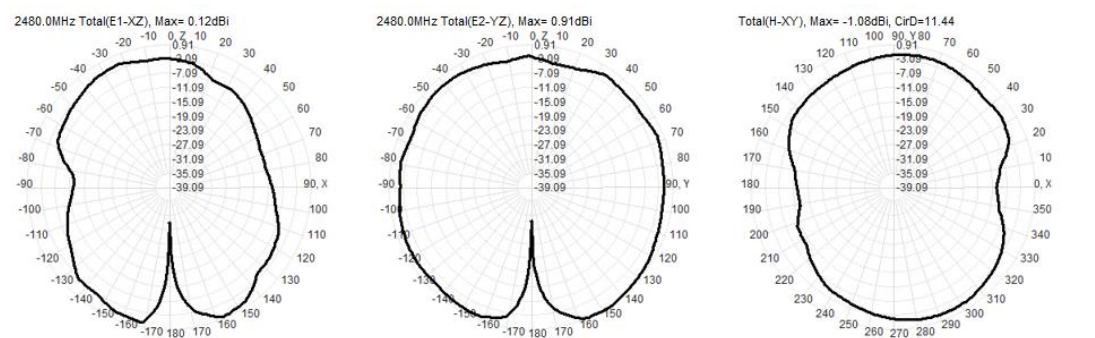
2.44G



2.46G



2.48G



8. Mechanical Specification

