



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: 2.4/5.8G FPC 内置天线 L=90mm+端子

客 户 料 号

CUSTOMER P/N:

优比电子料号

Youbi P/N: UB01C90F2D4468A REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Eddy 	
APPROVED BY:	工程专用章 Changxing.Liu	
DATE:	2024/3/30	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Eddy	2024-3-30

Content

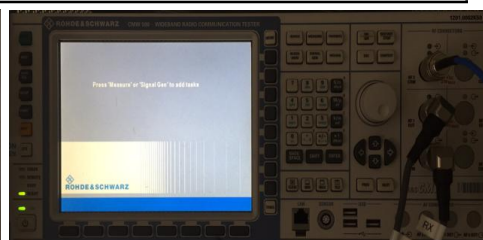
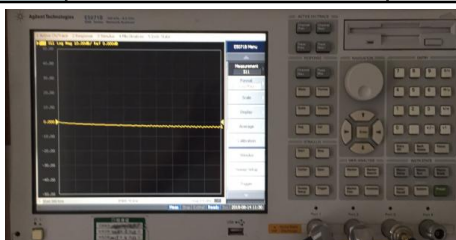
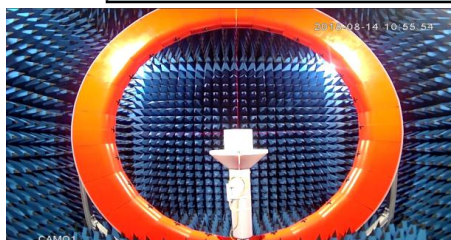
<i>Item</i>	<i>Description</i>
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1. Electrical Specification

Characteristics	Specifications	Unit
Outline Dimensions	35.2x8,L90	mm
Frequency	2400-2500; 5150-5850	MHz
Impedance	50	Ω
VSWR	≤ 2	
Polarization	Linear Polarization	
Gain	4 REF	dBi
Efficiency	> 50	%
Connector Type	MHF-1-Plug	
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)



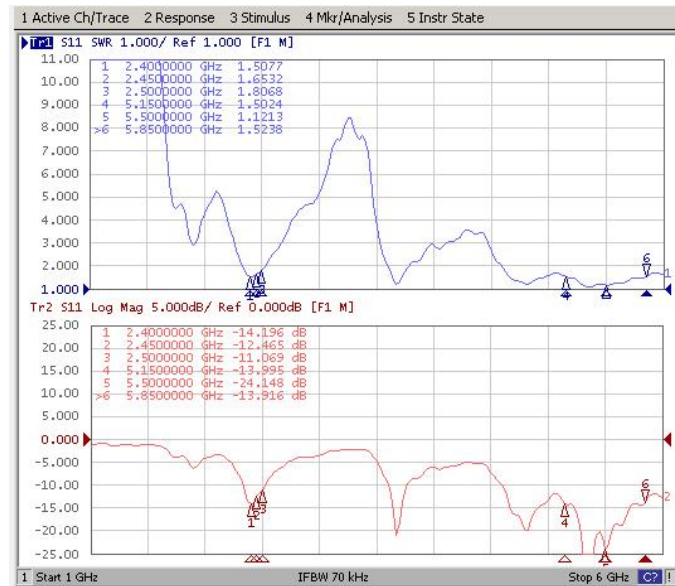
3. S Parameter

Frequency (MHz)	Return Loss (dB)	VSWR
2400	-14.19	1.50
2450	-12.46	1.65
2500	-11.06	1.80
5150	-13.99	1.50
5500	-24.14	1.12
5850	-13.91	1.52

* Voltage Standing Wave Ratio(VSWR)

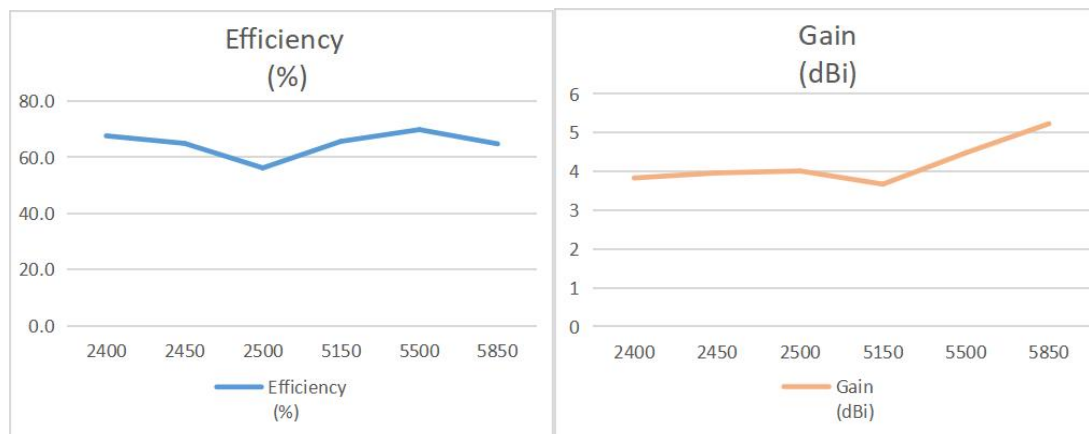
Return Loss(RL)

$$RL=20*\log_{10}[(VSWR+1)/(VSWR-1)]$$

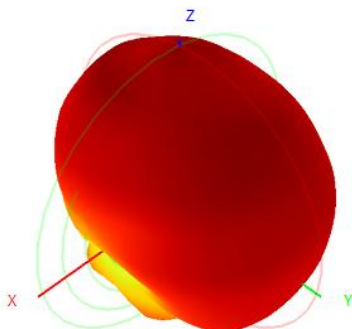


4. Efficiency and Gain

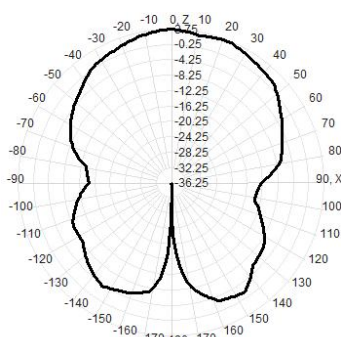
Frequency (MHz)	2400	2450	2500	5150	5500	5850
Efficiency (%)	67.62	64.93	56.20	65.67	69.83	64.77
Gain (dBi)	3.83	3.96	4.01	3.67	4.48	5.23



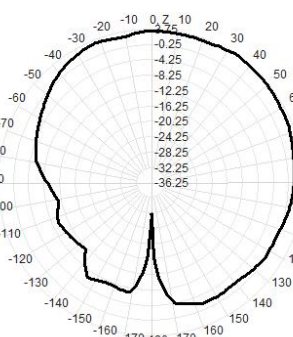
5. Radiation Pattern



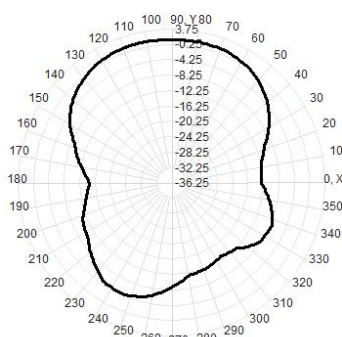
2450MHz



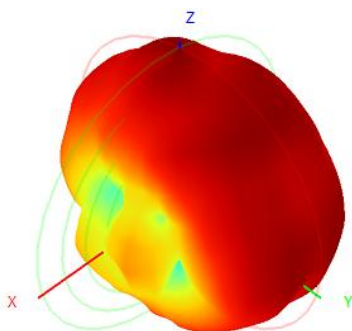
E1-Plane



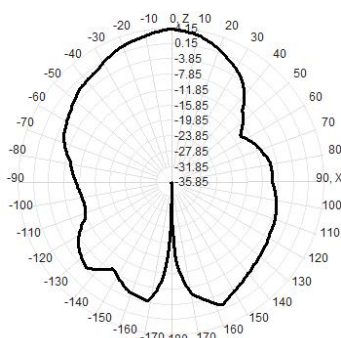
E2-Plane



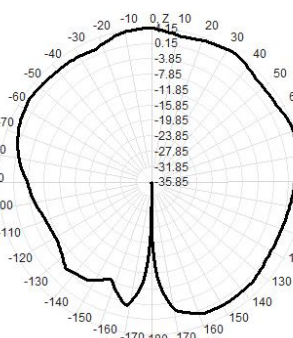
H-Plane



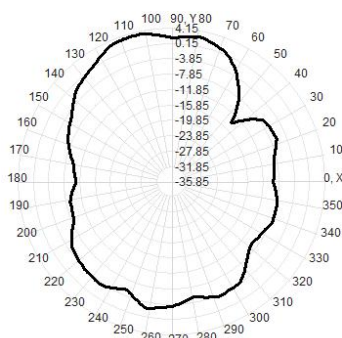
5500MHz



E1-Plane



E2-Plane



H-Plane

6. Antenna installation diagram



7.Mechanical Specification

