承　认　书

APPROVAL　SHEET

客 户 名 称

CUSTOMER NAME:

产 品 名 称	2.4G W12 杆套
PRODUCT　NAME:	W17 下固白色天 L=250mm+端子
客 户 料 号	
CUSTOMER　P/N:	
优比电子料号	
Youbi　P/N:	UB02C250W3D5249A　REV: C

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Bin.Wan	
APPROVED BY:	Changxing.Liu	
DATE:	2024-08-14	

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Bin.Wan	2024-03-12
B	Plastic toning	Bin.Wan	2024-05-15
C	Change the color of the silicone ring	Bin.Wan	2024-08-14

Content

ltem ***Description***

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	19.11x130.8,L250	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	⩽ 1.92	
Polarization	Linear Polarization	
Gain	3 REF	dBi
Efficiency	>40	%
Connector Type	MHF-1-Plug	
Operating temperature	-20℃~+70℃	
Storage Temp	-20℃~+70℃	

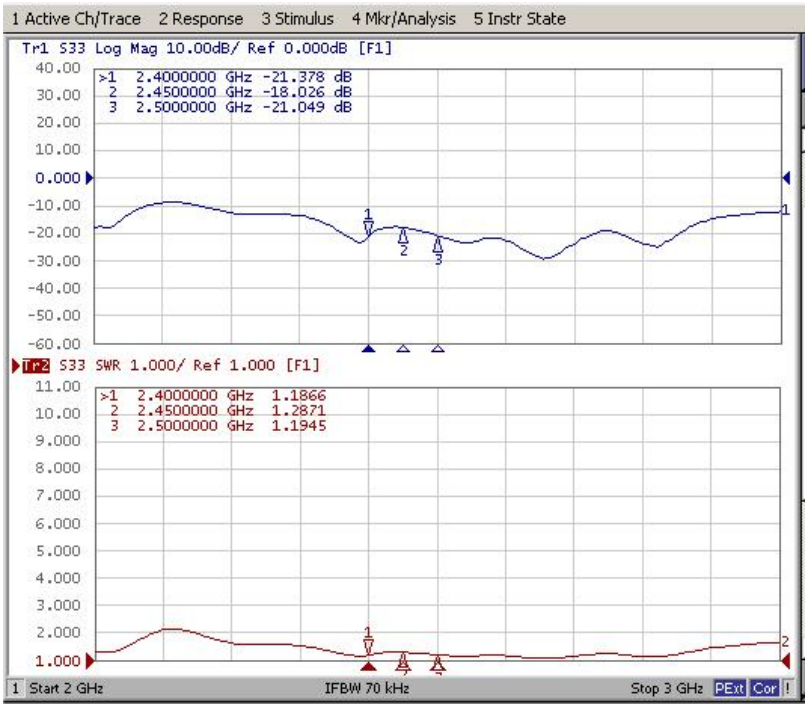
2.Test Items and Equipment

	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

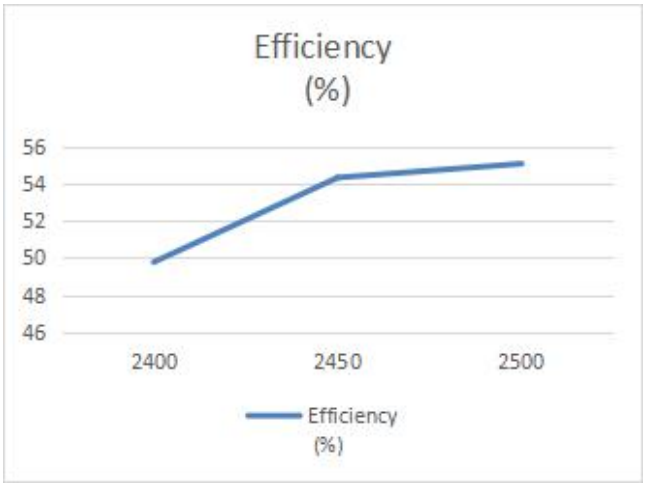
Frequency (MHz)	VSWR
2400	1.18
2450	1.28
2500	1.19

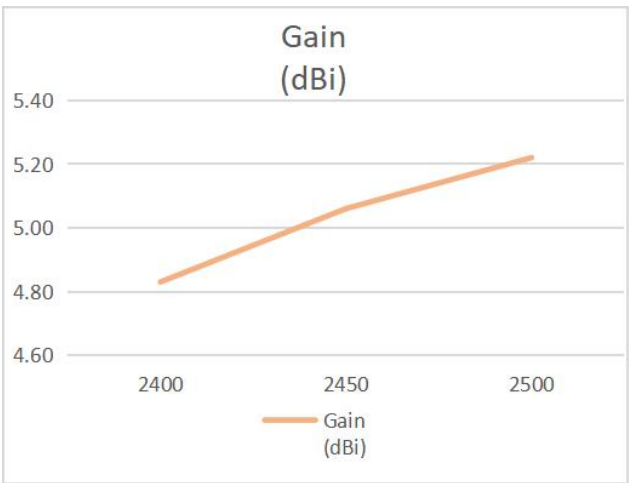


* Voltage Standing Wave Ratio(VSWR)
  Return Loss(RL)
  RL=20*log10[(VSWR+1)/(VSWR-1)]

4. Efficiency and Gain

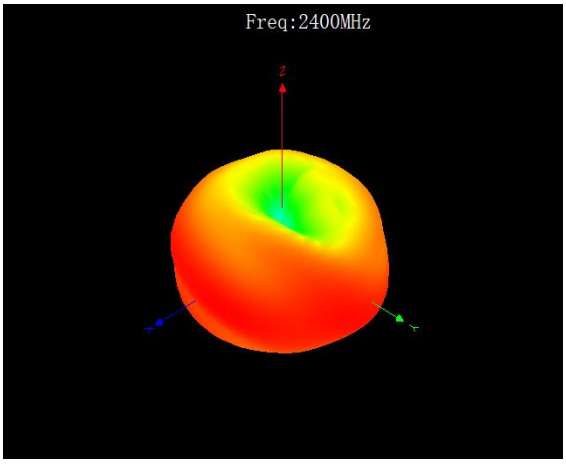
Frequency (MHz)	2400	2450	2500
Efficiency (%)	49.77	54.33	55.08
Gain (dBi)	4.83	5.06	5.22



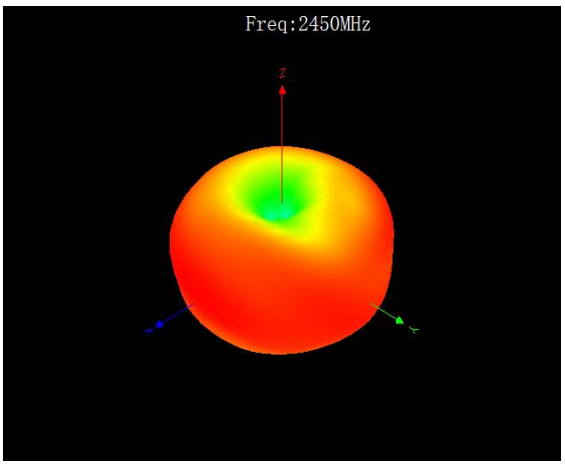


5. Radiation Pattern

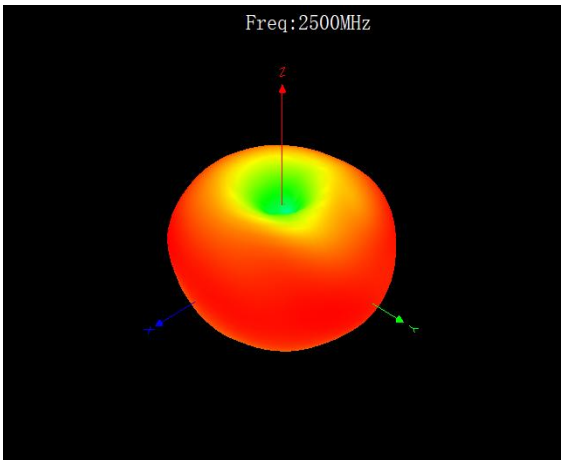
5-1 Antenna 3D Radiation Pattern



2400MHz

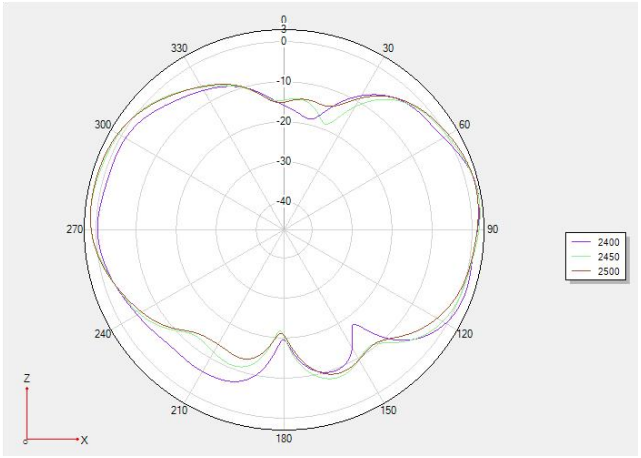


2450MHz

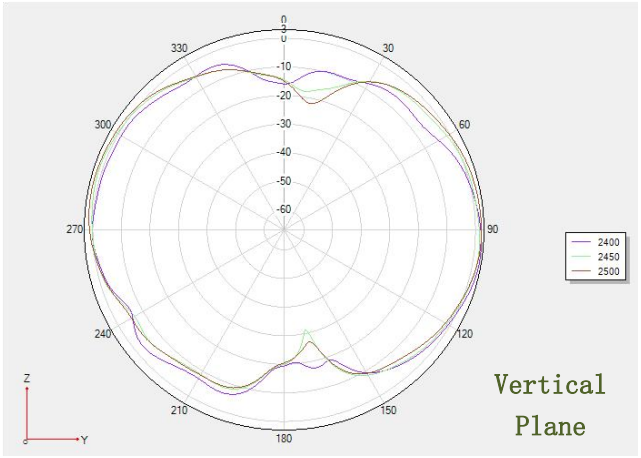


2500MHz

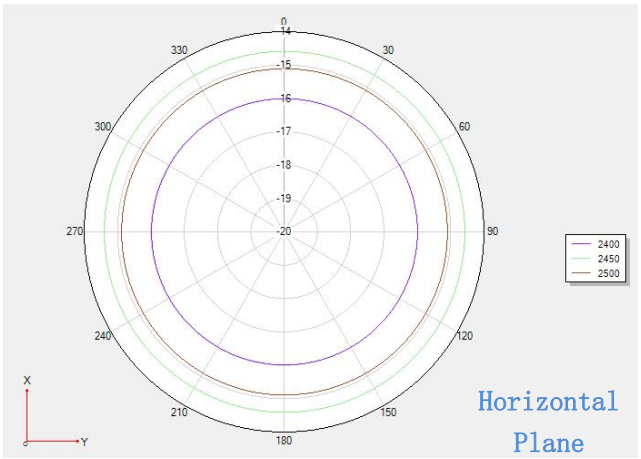
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification: