UANT®
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:　　PCB 天线

客 户 料 号

CUSTOMER　P/N:

优比电子料号

Youbi　P/N:　UB01C165J2D566A　REV: A

	MANUFACTURER SIGNATURE	CUSTOMER SIGNATURE
CHECKED BY:	Yongxin.Lu	
APPROVED BY:	Changxing.Liu	
DATE:	2022/5/18	

东莞市优比电子有限公司 工程专用章

Modification History

Version	Content Revision	Issued by	Date
A	Original version	Yongxin.Lu	2022-5-18

Content

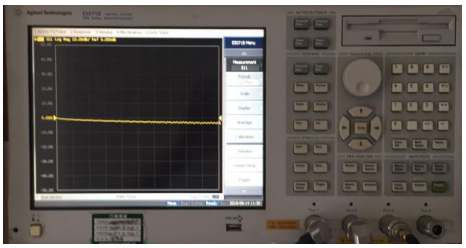
ltem ***Description***

1. Electrical Specification:

Characteristics	Specifications	Unit
Outline Dimensions	5.5 x 11,L65	mm
Frequency	2400-2500	MHz
Impedance	50	Ω
VSWR	< 2.2	
Polarization	Linear Polarization	
Gain	1.79	dBi
Efficiency	< 60	%
Connector Type	MHF-1-Plug	
Operating temperature	-20℃~+85℃	
Storage Temp	-20℃~+50℃	

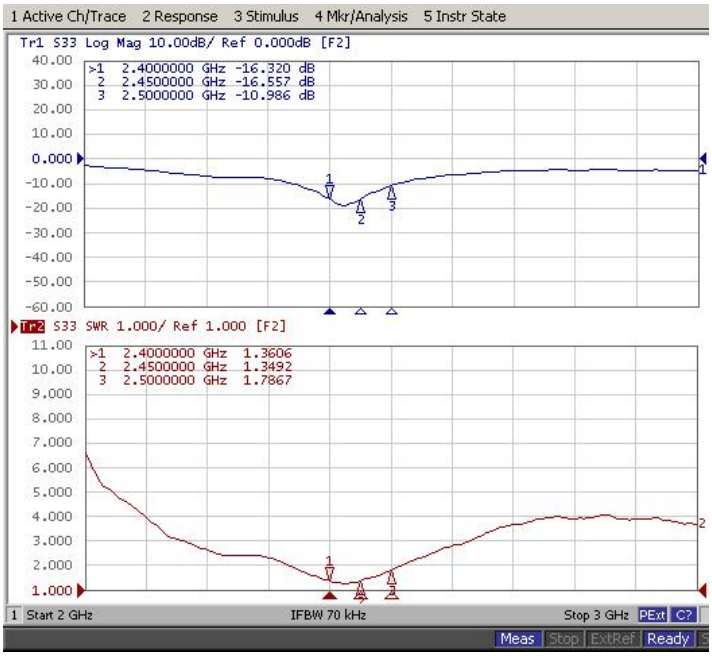
2.Test Items and Equipment

	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	-16.32	1.36
2450	-16.55	1.34
2500	-10.98	1.29



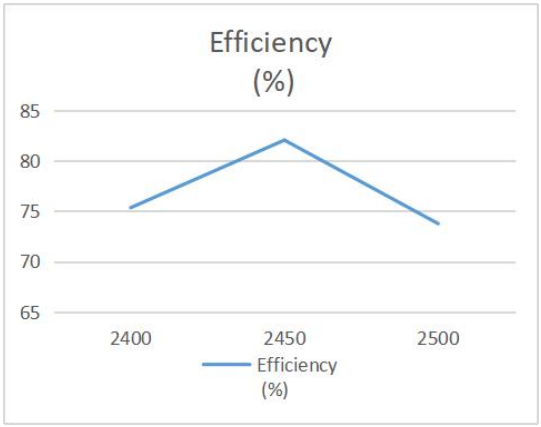
* Voltage Standing Wave Ratio(VSWR)

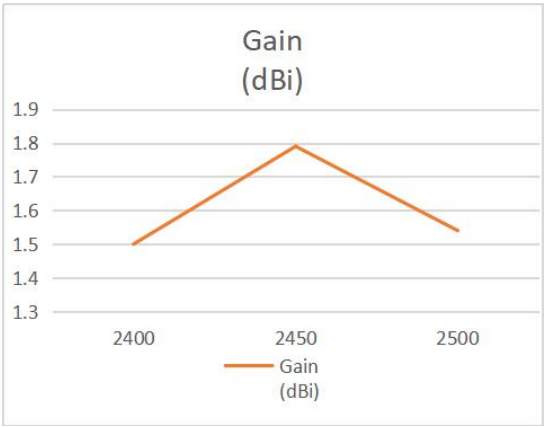
Return Loss(RL)

RL=20*log10[(VSWR+1)/(VSWR-1)

4. Efficiency and Gain

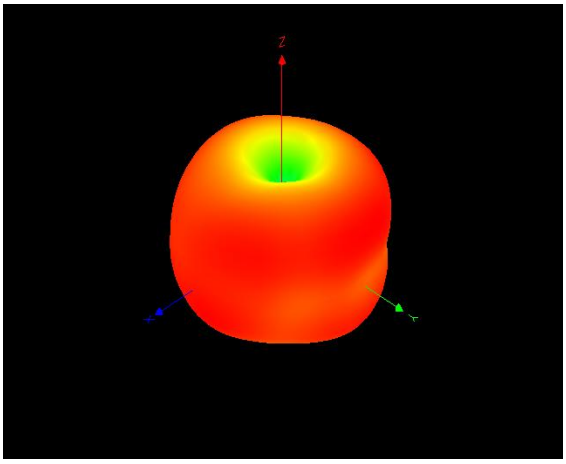
Frequency (MHz)	2400	2450	2500
Efficiency (%)	75.34	82.04	73.76
Gain (dBi)	1.5	1.79	1.54



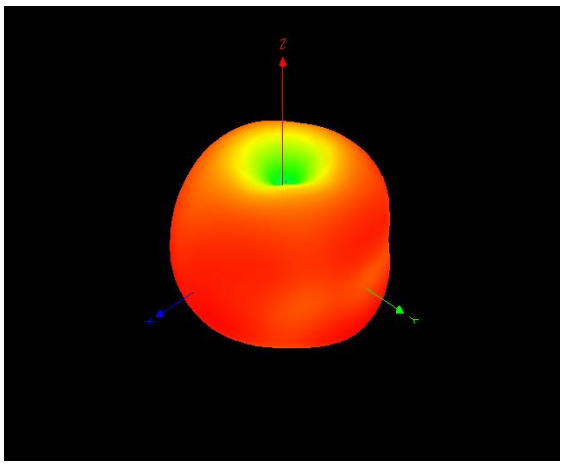


5. Radiation Pattern

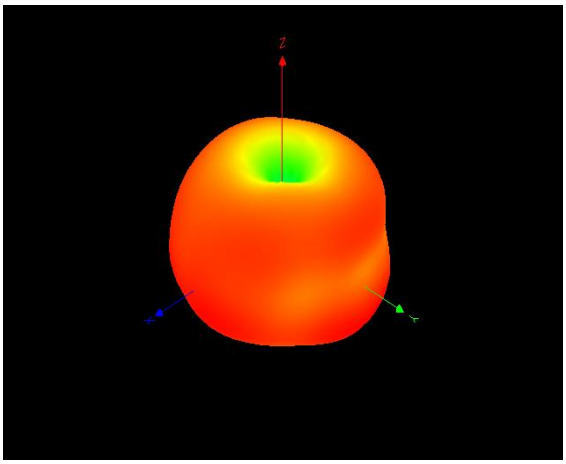
5-1 Antenna 3D Radiation Pattern



2400MHz

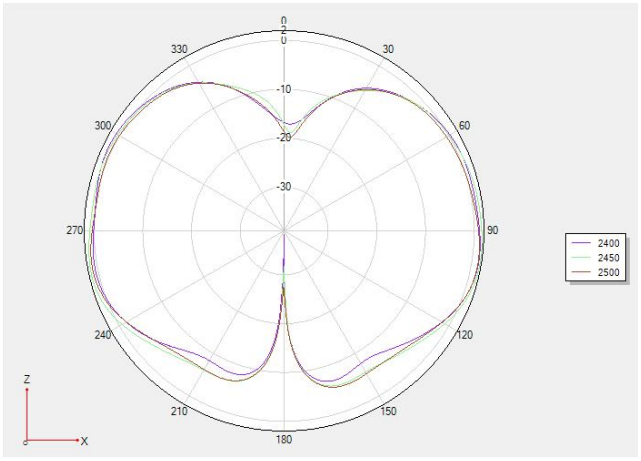


2450MHz

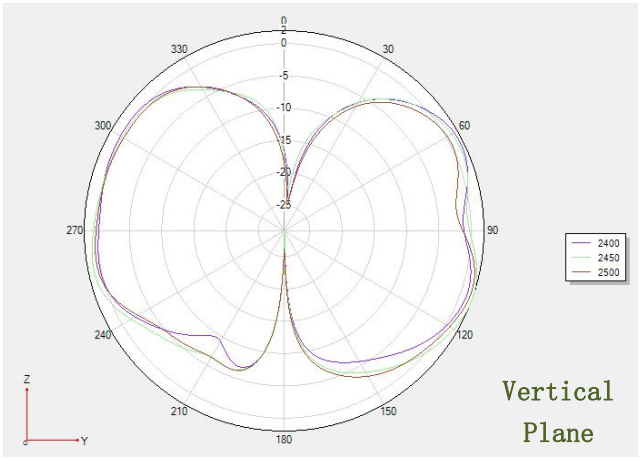


2500MHz

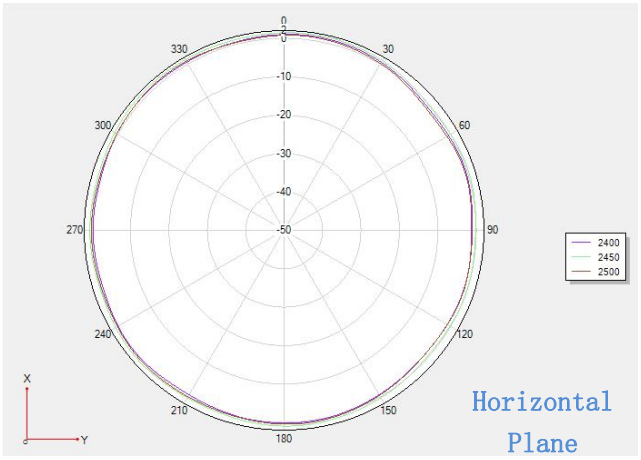
5-2 Antenna 2D Radiation Pattern



Phi 0 2D



Phi 90 2D



Theta 90 2D

6. Mechanical Specification