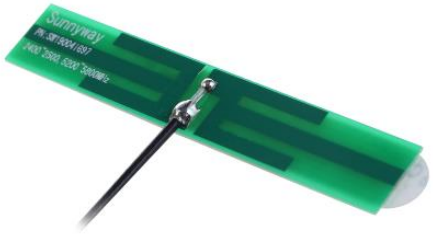
SUNNYWAY

SWP004

PN: SW19004IG97



Sunnyway Technology

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1. Electrical Specifications

Standards	WiFi 2.4G + 5.8G	
Frequency range (MHz)	2400~2500MHz	5200~5800MHz
Peak Gain (dBi)	2.0~2.8dBi	1.5~4.5dBi
Average Gain (dB)	-2.2~-1.5dB	-4.0~-1.0dB
VSWR	<1.5	<1.6
Return Loss	<-14.4	<-12.8
Efficiency (%)	60~70%	40~80%
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

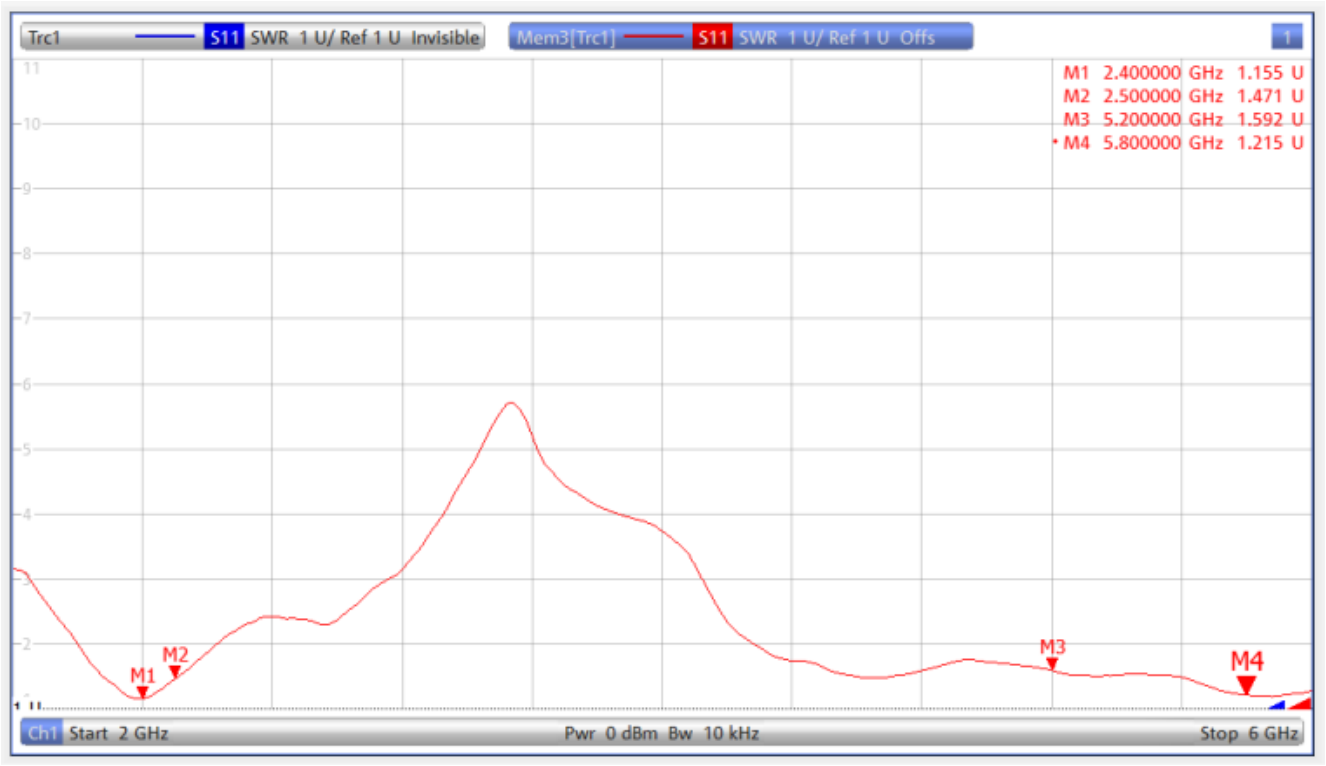
2. Mechanical and Environmental Specification

Mounting Type	Adhesive
Adhesive Type	3M9448A
Connector Type	U.FL Standard
Antenna size(mm)	50.7mm (L) x 9.0mm (W) x 0.6mm (H)
Material	PCB

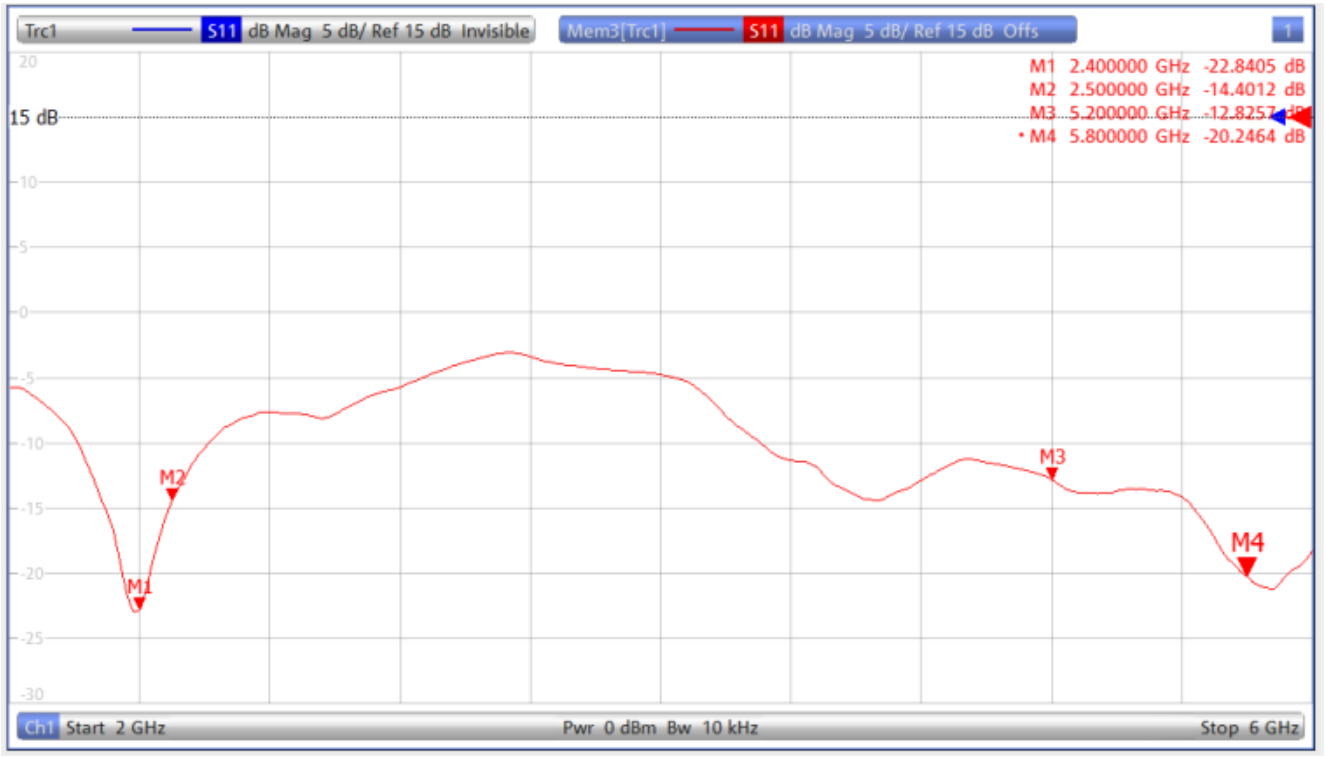
Cable length(mm)	101mm
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

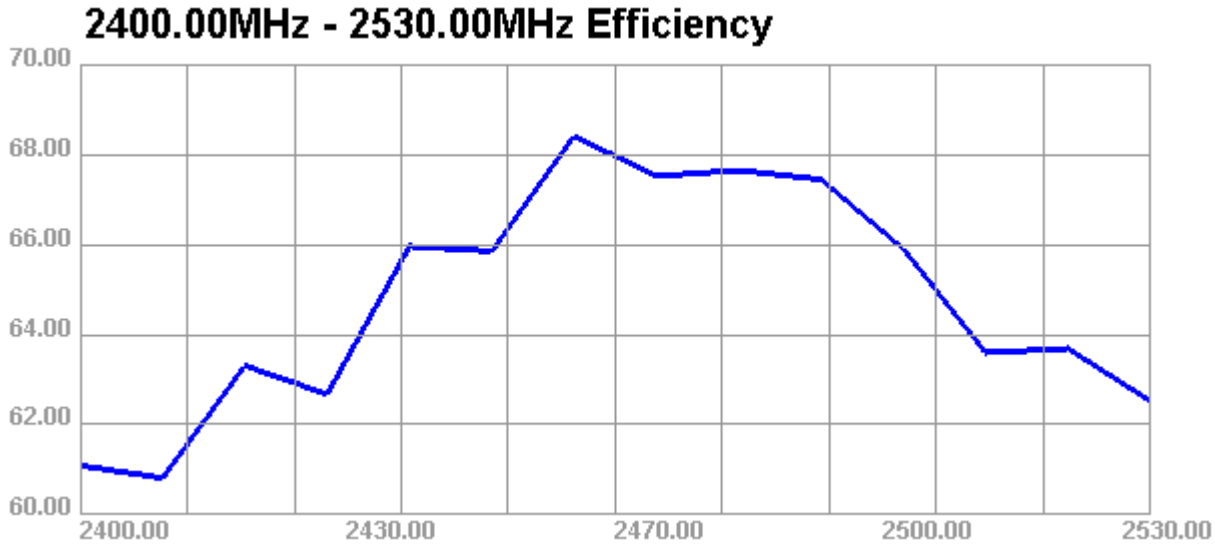
FRE（MHz）	2400	2500	5200	5800
VSWR	1.15	1.47	1.59	1.21
Return Loss	-22.84	-14.40	-12.82	-20.24
Eff (%)	61.5	62.3	70.4	60.5
Average Gain(dB)	-2.11	-2.05	-1.52	-2.18

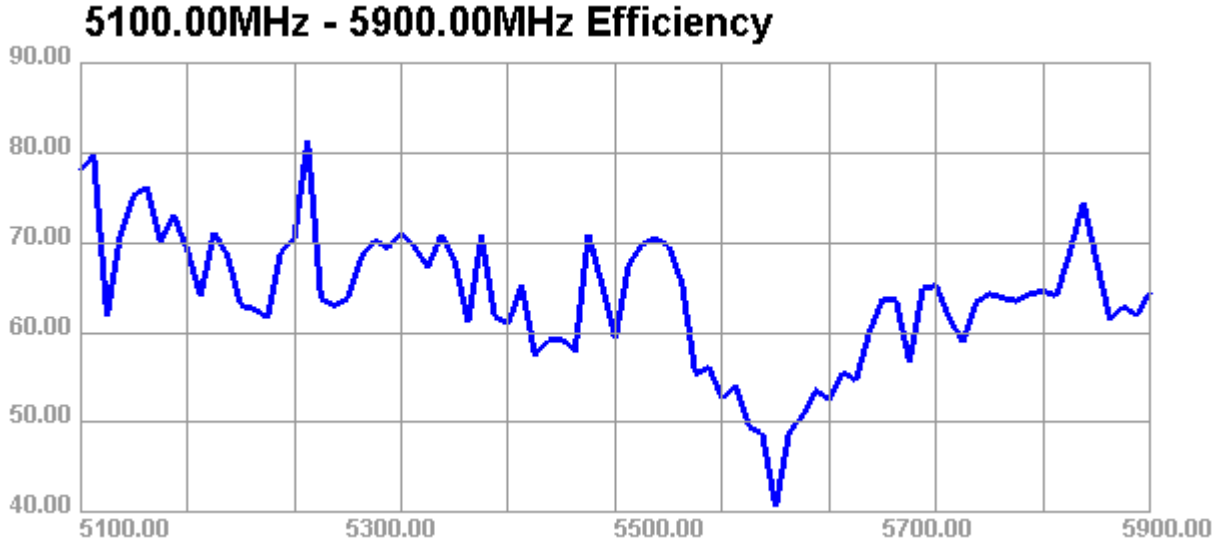


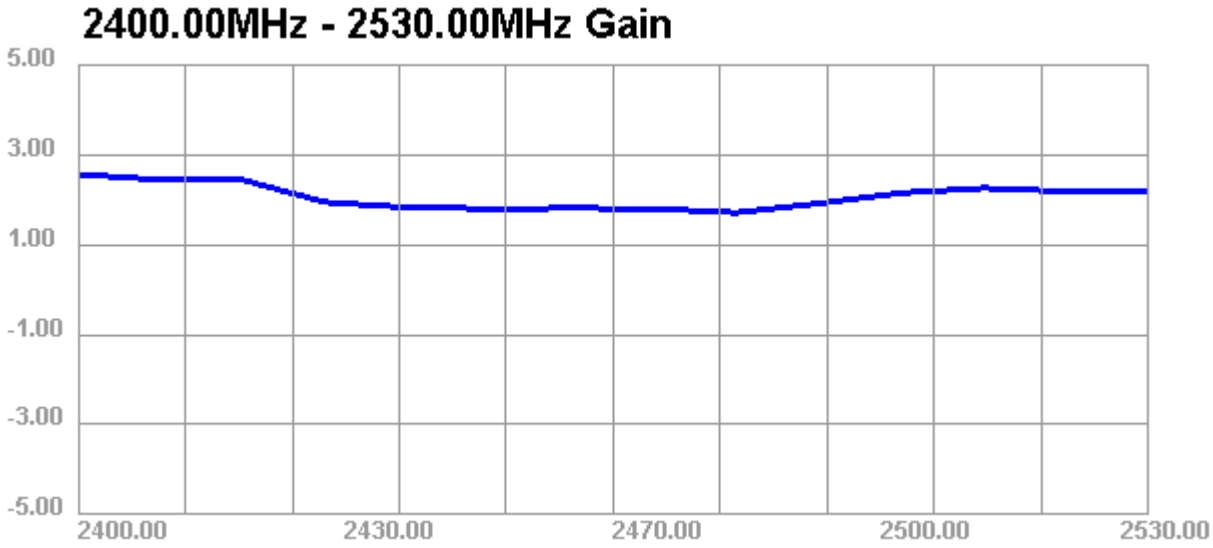
VSWR

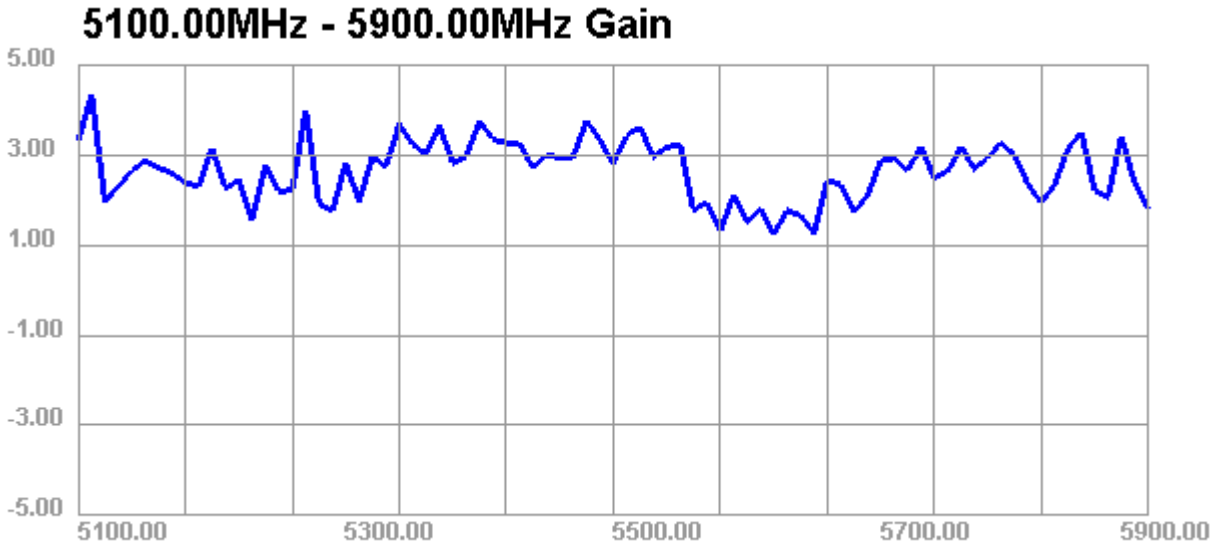


Return Loss

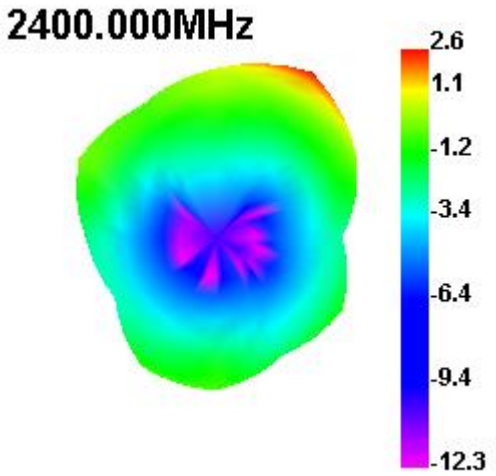

2400.00MHz - 2530.00MHz Efficiency
70.00
68.00
66.00
64.00
62.00
60.00
2400.00
2430.00
2470.00
2500.00
2530.00

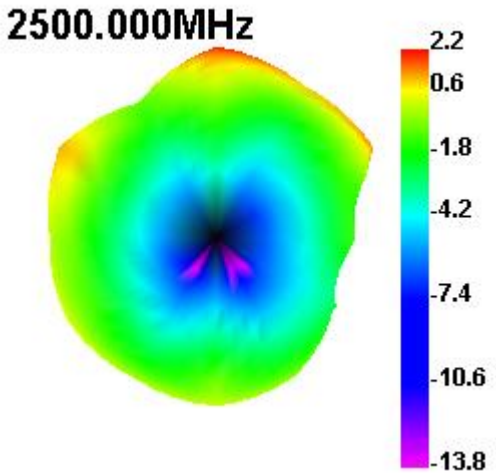

5100.00MHz - 5900.00MHz Efficiency
90.00
80.00
70.00
60.00
50.00
40.00
5100.00
5300.00
5500.00
5700.00
5900.00

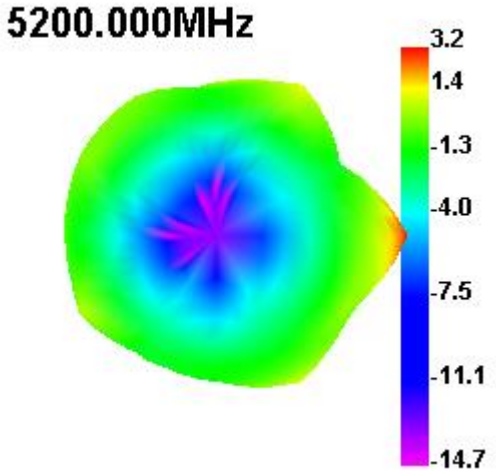

2400.00MHz - 2530.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
2400.00
2430.00
2470.00
2500.00
2530.00

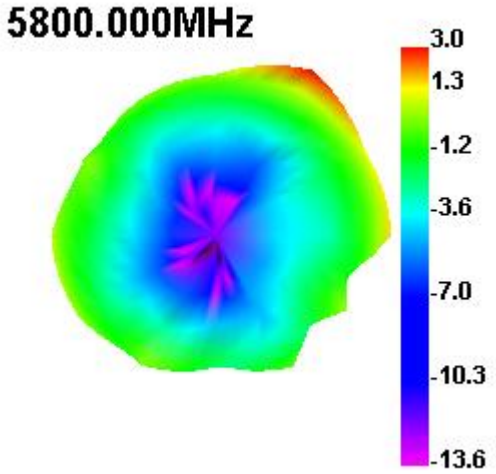

5100.00MHz - 5900.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
5100.00
5300.00
5500.00
5700.00
5900.00

Directional pattern









4. Antenna Drawings

