



SWE059

PN: SW22073EB56

Key features:

- Antenna for 2400~2500MHz and 5100~5900MHz .
- High gain.
- Sustained High Efficiency and Performance.
- Impedance 50 Ohm.

Typical applications:

- Smart Home.
- Gateways.
- Routers.
- Connected Agriculture.
- Others.

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1. Introduction



The Sunnyway SWE059 is a 2.4 & 5.8GHz Wi-Fi terminal mount antenna. At just 48.6mm in height and 8mm indiameter. It is ideal for applications such as Bluetooth, BLE, ZigBee and Wireless LAN. The SWE059 designed for superior performance and reliability, has an omnidirectional radiation pattern and extremely high efficiency and gain on both the 2.4 & 5.8GHz bands.

Typical applications:

- Smart Home.
- Gateways.
- Routers.
- Connected Agriculture.
- Others.

2. Electrical Specification

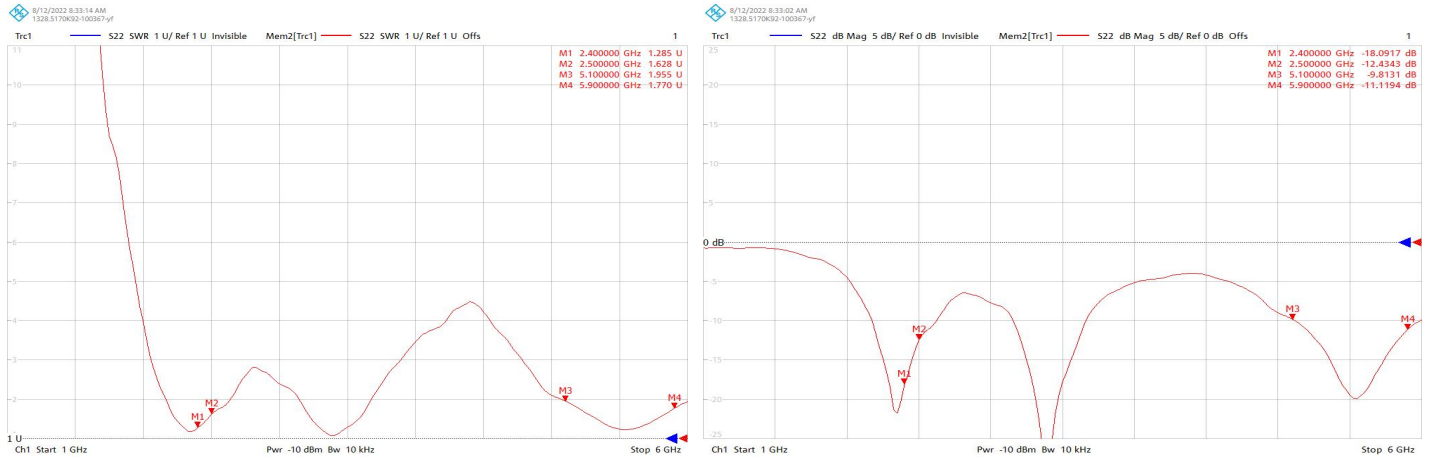
Standard	2.4G WiFi	5.8G WiFi
Frequency range (MHz)	2400~2500MHz	5100~5900MHz
Peak Gain (dBi)	2.5~3.6	1.1~4.3
Average Gain (dB)	-1.0~-0.6	-2.3~-0.8
VSWR	< 2.0	< 2.0
Return Loss	< -10.0	< -10.0
Efficiency (%)	79%~86%	45%~75%
Polarization mode	Linear	
Radiation pattern	Omni-Directional	
Output impedance (Ω)	50	
Max. Input Power(W)	5	

3. Mechanical and Environmental Specification

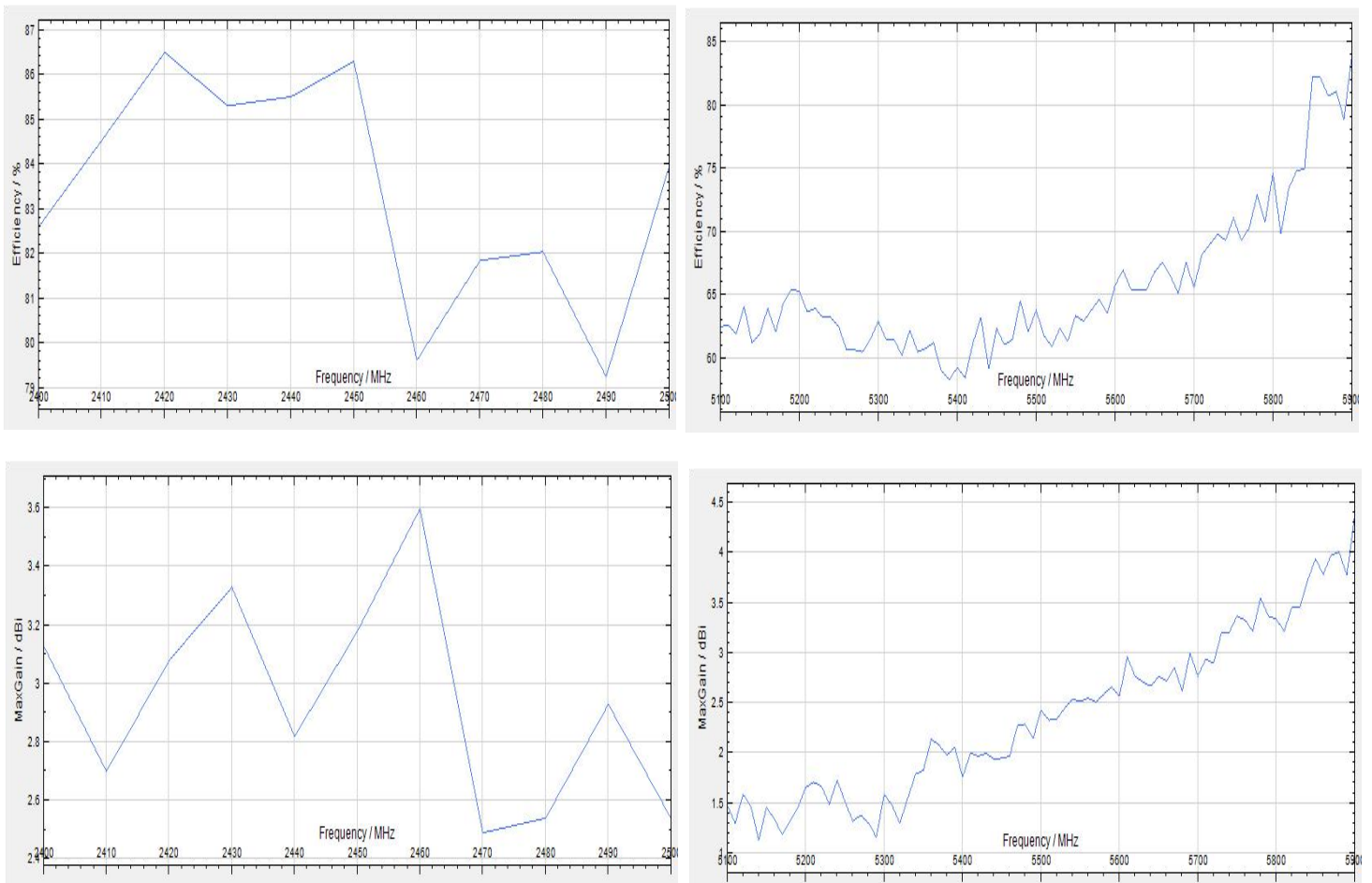
Mounting Type	Connector Mount
Connector Type	SMA-Male Standard (Right-Angle)
Antenna size(mm)	48.6X ϕ 8mm
Material	ABS
Operating Temperature (°C)	- 40 °C ~ + 85 °C
Storage Temperature(°C)	- 40 °C ~ + 85 °C

4. Antenna parameters

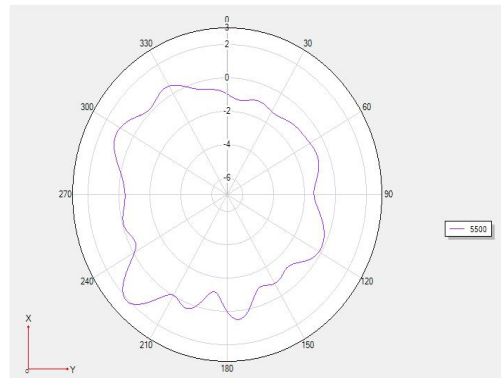
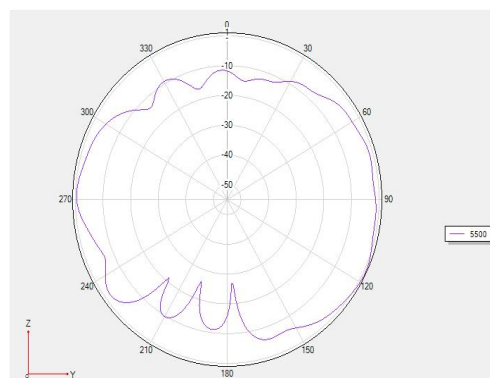
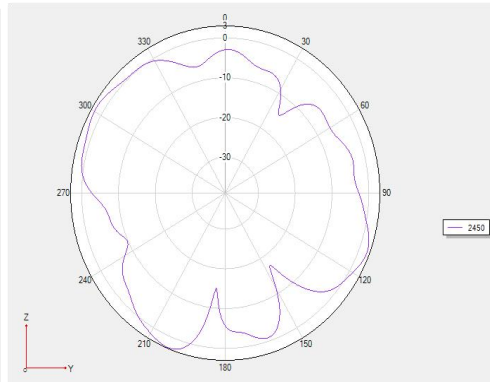
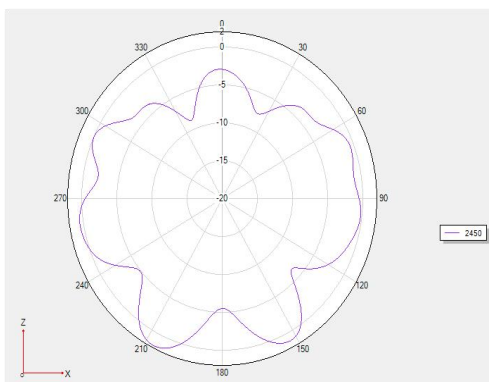
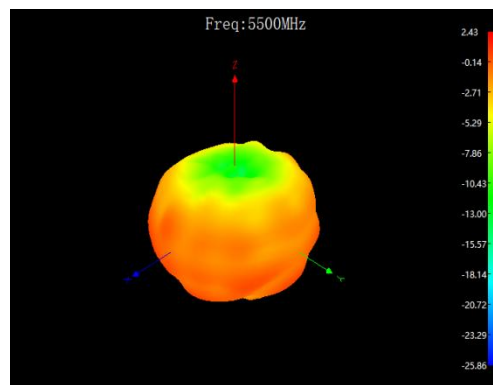
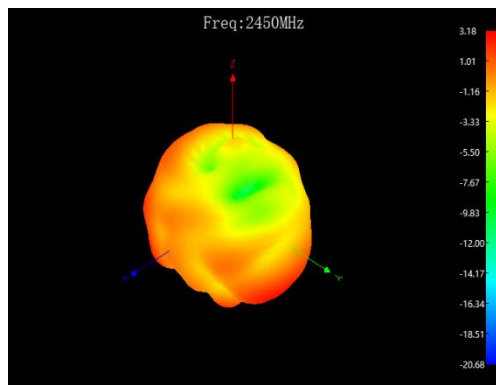
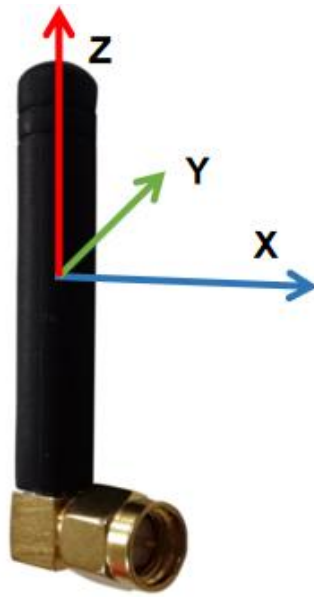
4.1 VSWR and Return Loss



4.2 Efficiency and Gain

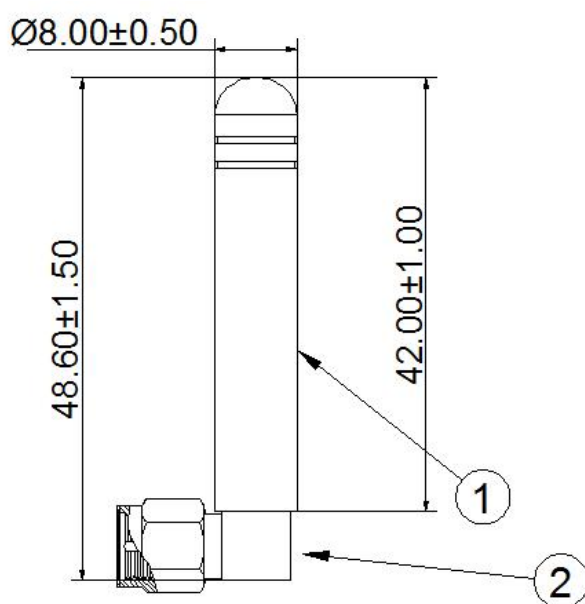


4.3 Directional pattern



5. Antenna Drawing(Unit:mm)

Unit:mm



Series	Component name	Specification	Color	Quantity
1	noumenon	ABS	black	1
2	SMA	SMA-J	Gold	1