

SWE056

PN: SW22013EB56



Features:

- Antenna for 868MHz.
- Small size.
- Impedance 50 Ohm.

Applications:

- Remote monitoring.
- Network Devices.
- Gateway.
- Others.

1. Electrical Specification

Standards	ISM-868MHz
Frequency range (MHz)	868
Peak Gain (dBi)	2.91
Average Gain (dB)	-1.53
VSWR	1.15
Return Loss	-22.86
Efficiency (%)	70.37%
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

Note:

All parameters are measured with Sunnyway's EVK which size is 150*90mm

2. Mechanical and Environmental Specification

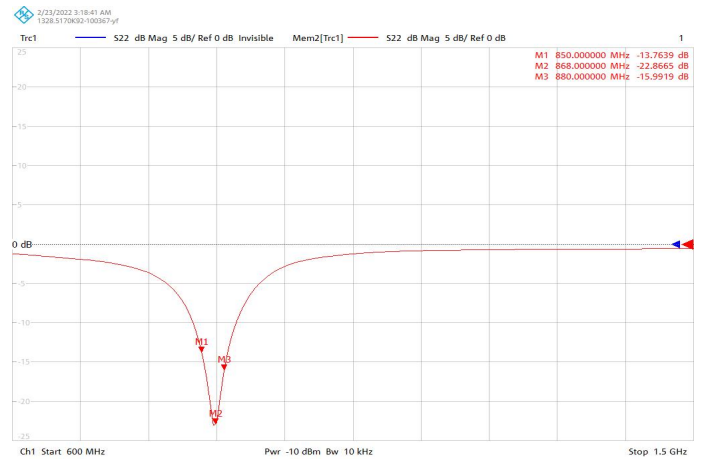
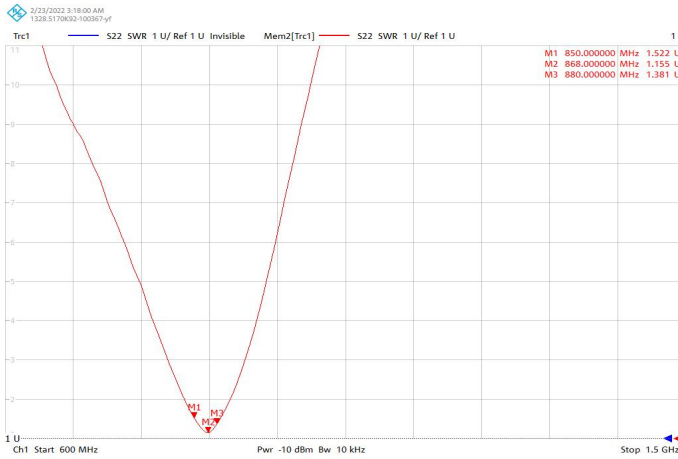
Mounting Type	Connector Mount
Connector Type	SMA-Male Standard (Right-Angle)
Antenna size(mm)	48.6X ϕ 8mm
Material	ABS
Operating Temperature ($^{\circ}$ C)	- 40 $^{\circ}$ C ~ + 85 $^{\circ}$ C
Storage Temperature($^{\circ}$ C)	- 40 $^{\circ}$ C ~ + 85 $^{\circ}$ C

3. Antenna parameters

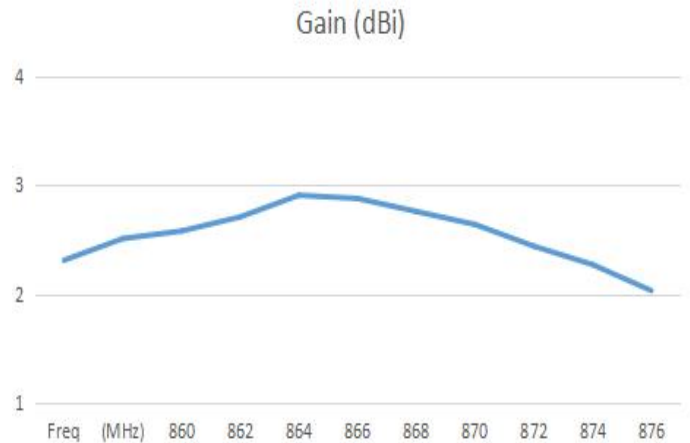
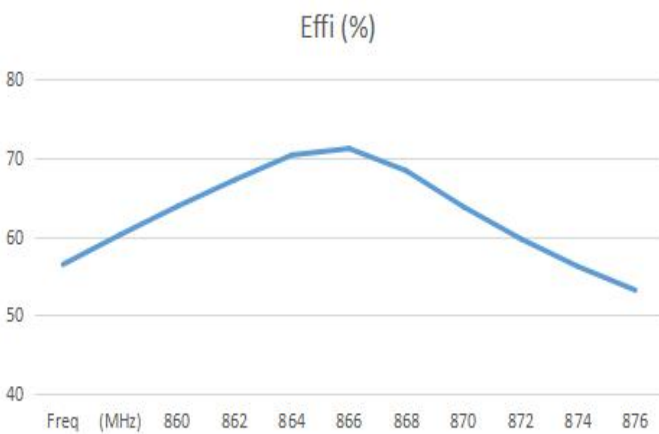
3.1 General Data

FRE (MHz)	868
VSWR	1.15
Return Loss	-22.86
Eff (%)	70.37
Average Gain (dB)	-1.53

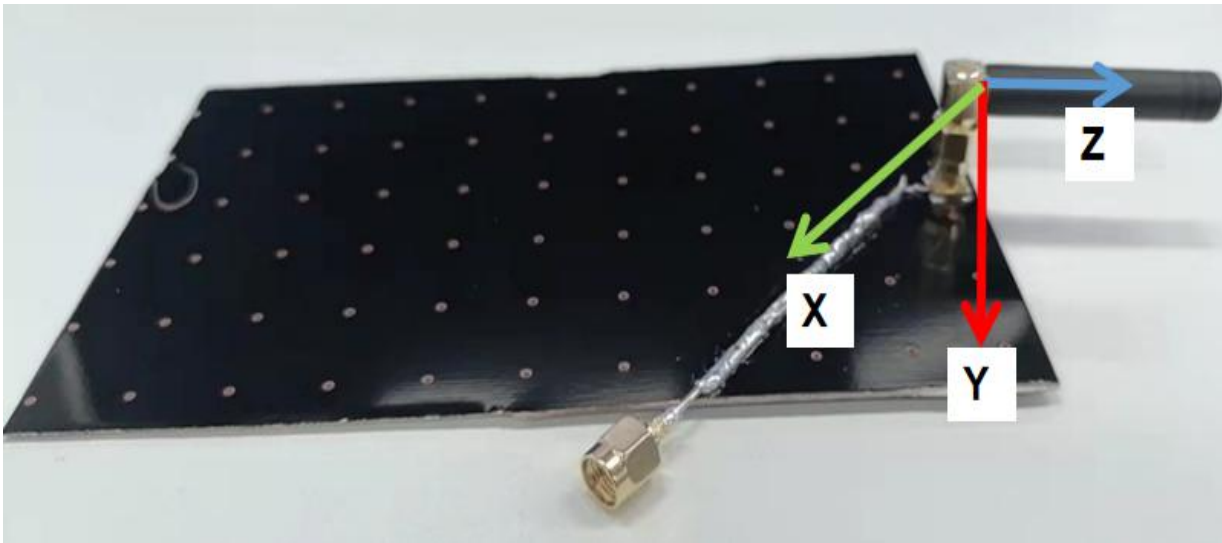
3.2 VSWR and Return Loss



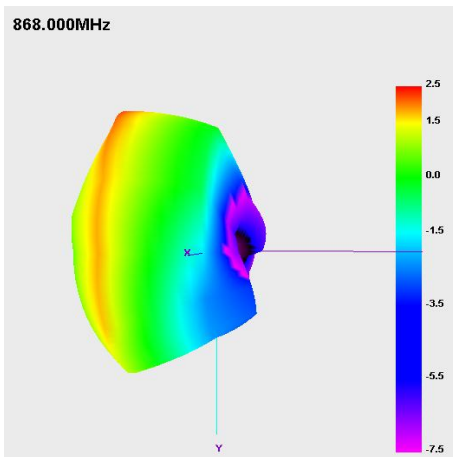
3.3 Efficiency and Gain



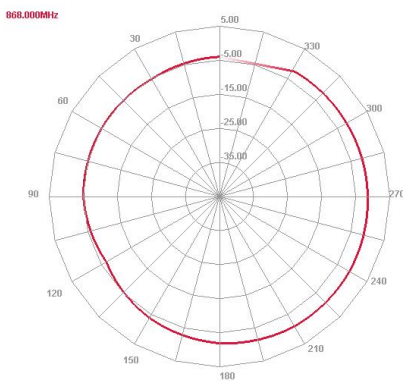
3.4 Directional pattern



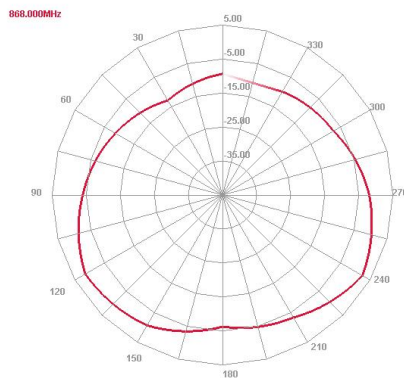
EVK size is 150*90mm



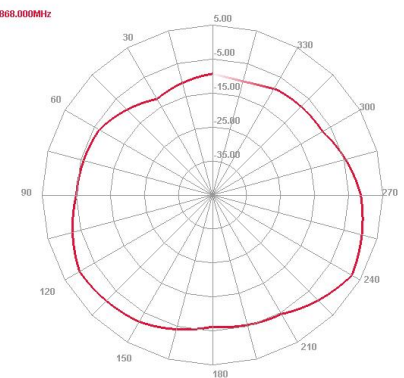
Horizontal



E1 Face

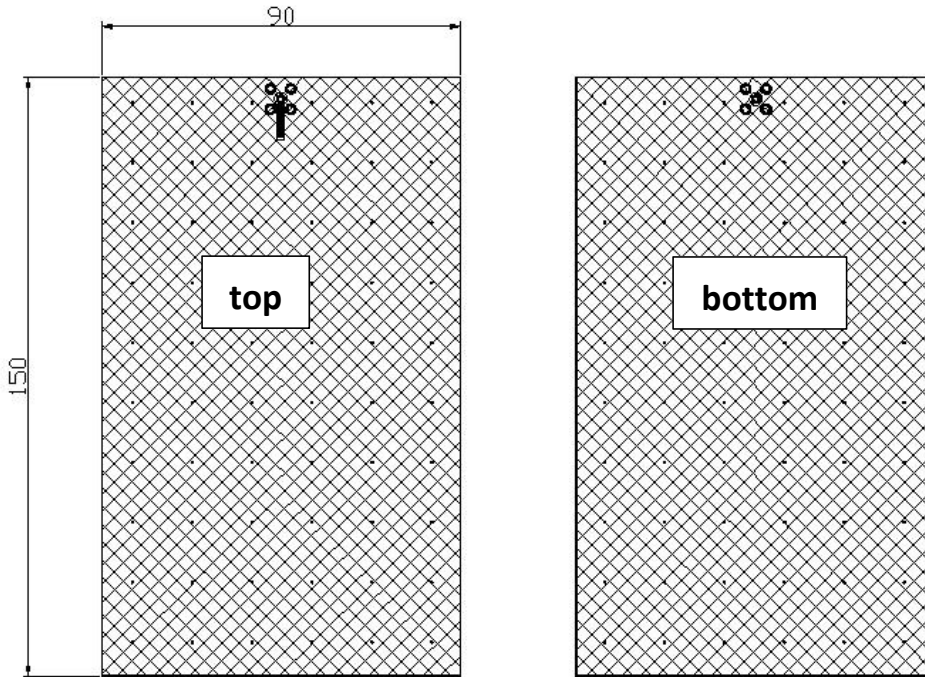


E2 Face

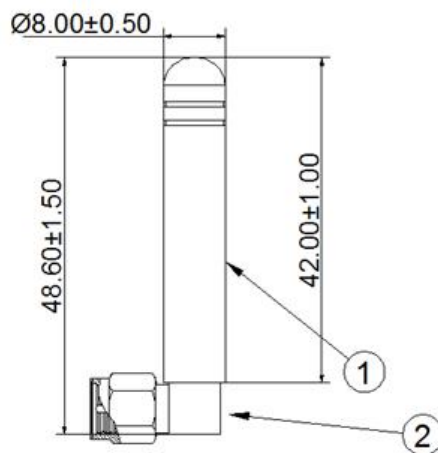


4. Host PCB Size

Sunnyway's EVK size:



5. Antenna Drawing



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