SWE047

PN: SW20090EB56



Features:

- Antenna for 868/915MHz ,2400~25000MHz.
- Small size.
- Impedance 50 Ohm.

Applications:

- Remote monitoring.
- Network Devices.
- Gateway.
- Router/CPE.
- Others.

Sunnyway Technology

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1. Electrical Specification

Standards	868MHz&915MHz&2.4G WiFi&BT		
Frequency range (MHz)	868	915	2400~2500
Peak Gain (dBi)	2.5	3.4	2.0~2.7
Average Gain (dB)	-1.5	-1.4	-2.7~-2.3
VSWR	1.7	1.7	< 2.0
Return Loss (dB)	-11.4	-11.1	< -10.0
Efficiency (%)	70.6	72.3	54.0~60.0
Polarization mode	Linear	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50	50
Max. Input Power(W)	25	25	25

Note:

All parameters are measured with Sunnyway's EVK which size is 90*50mm

2. Mechanical and Environmental Specification

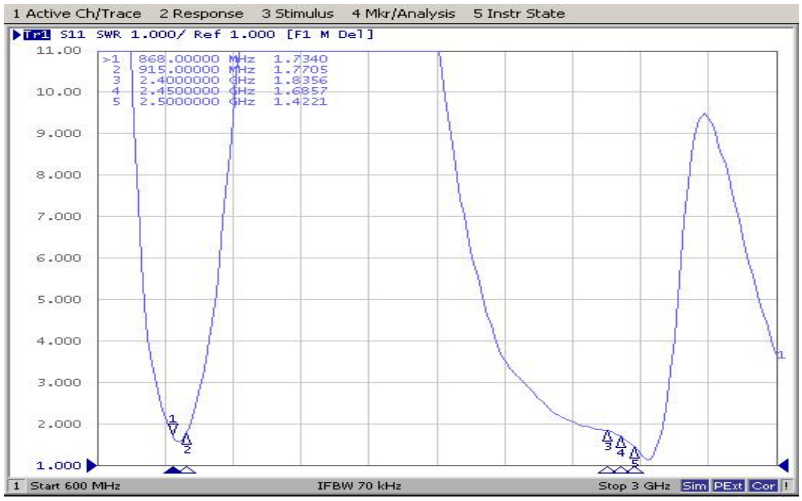
Mounting Type	Connector Mount
Connector Type	SMA-Male Standard (Right-Angle)
Antenna size(mm)	48.6Xφ8mm
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

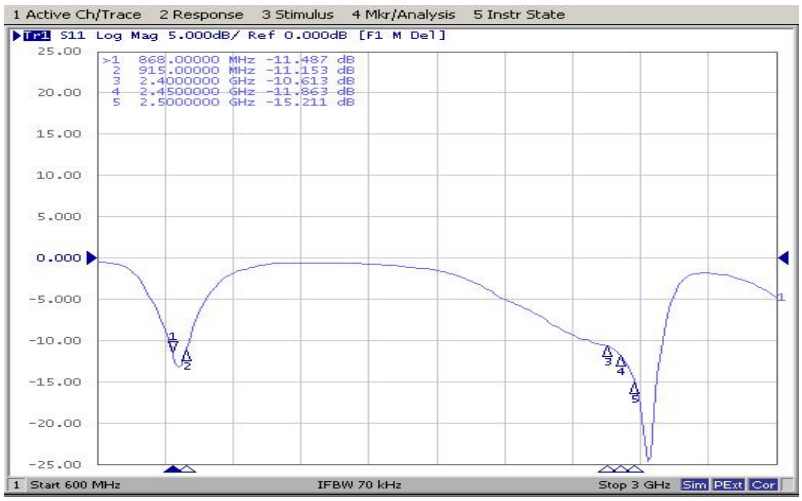
3.1 General Data

FRE (MHz)	868	915	2400	2450	2500
VSWR	1.7	1.7	1.8	1.6	1.4
Return Loss	-11.4	-11.1	-10.6	-11.8	-15.2
Eff (%)	70.6	72.3	56.5	55.6	59.2
Average Gain (dB)	-1.5	-1.4	-2.5	-2.6	-2.3

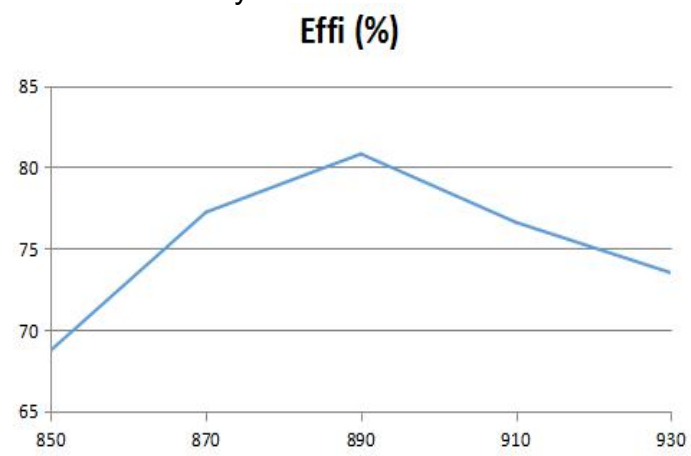
3.2 VSWR

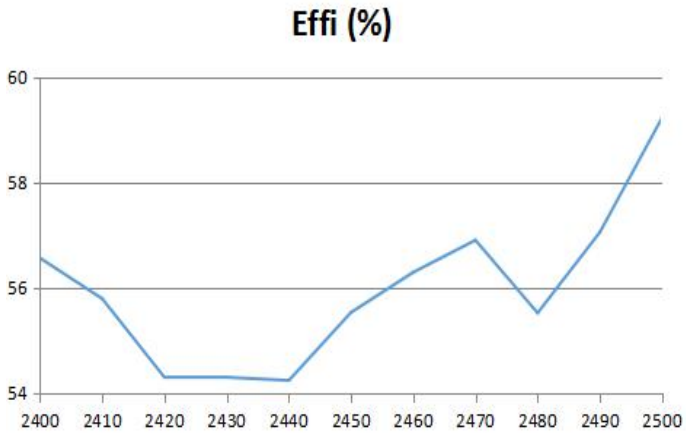


3.3 Return Loss

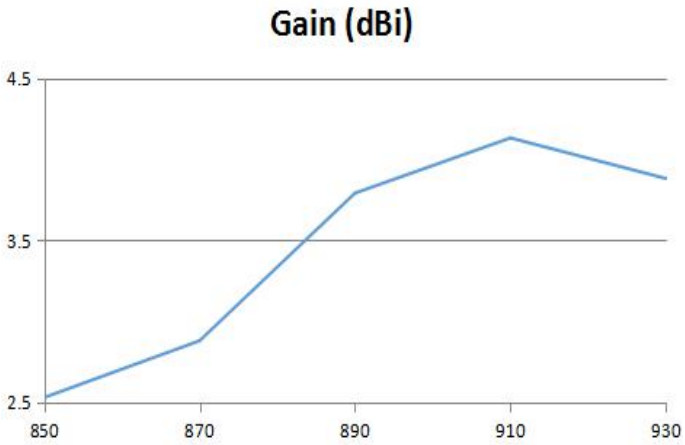


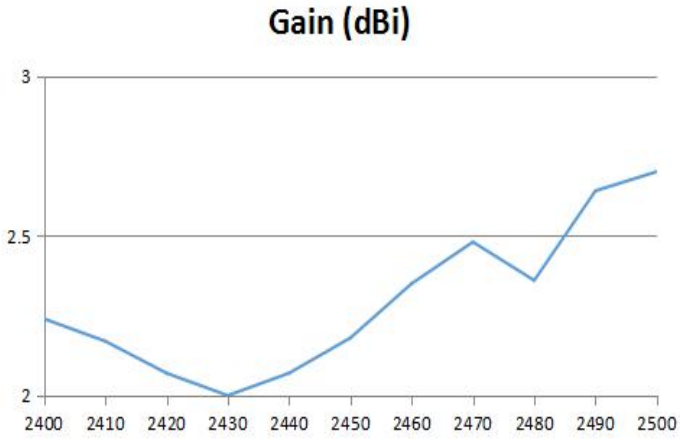
3.4 Efficiency



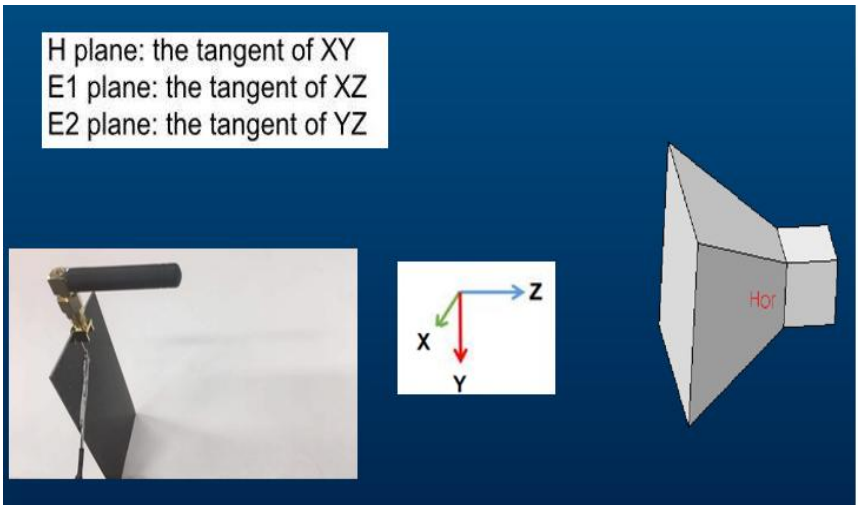


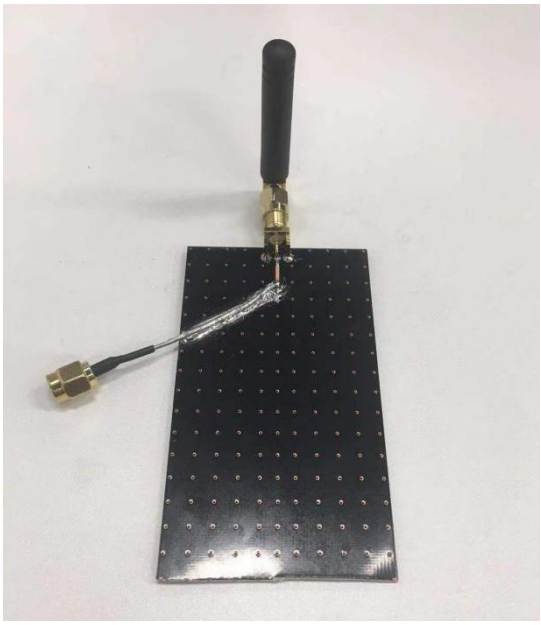
3.5 Gain



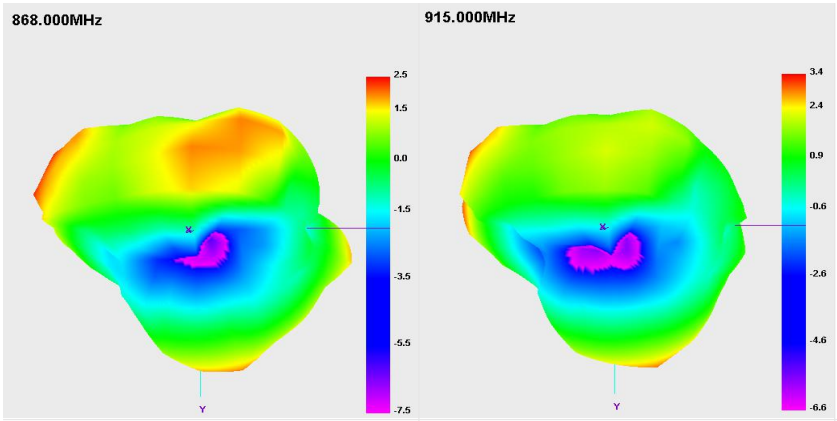


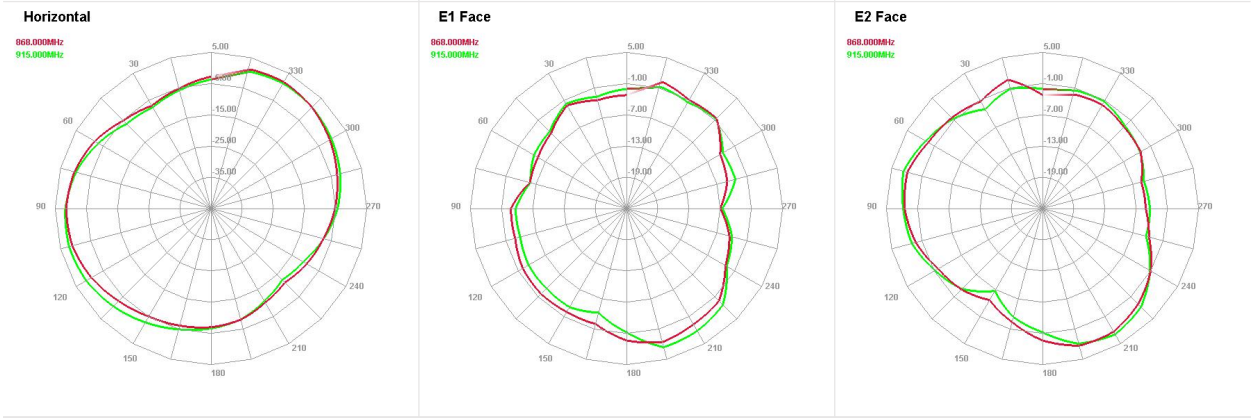
3.6 Directional pattern

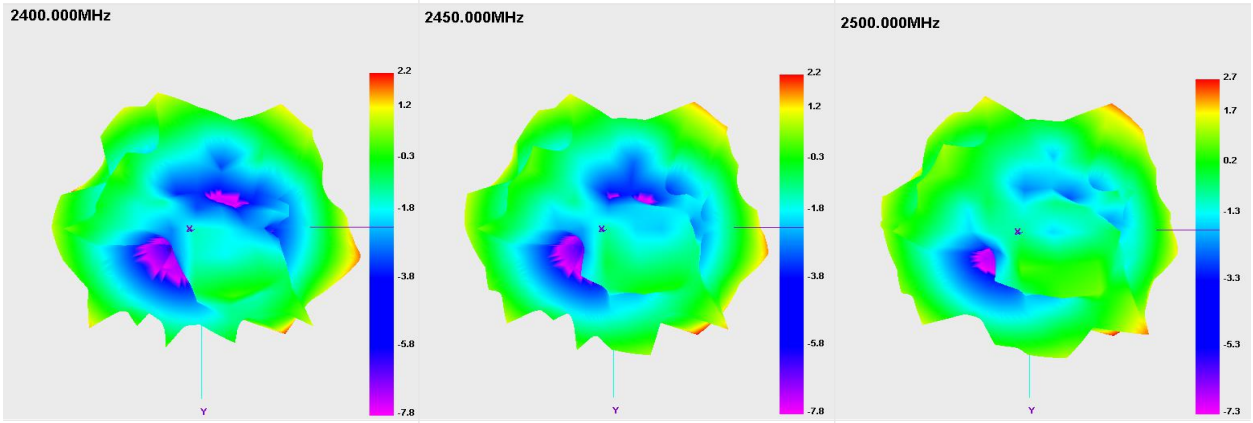


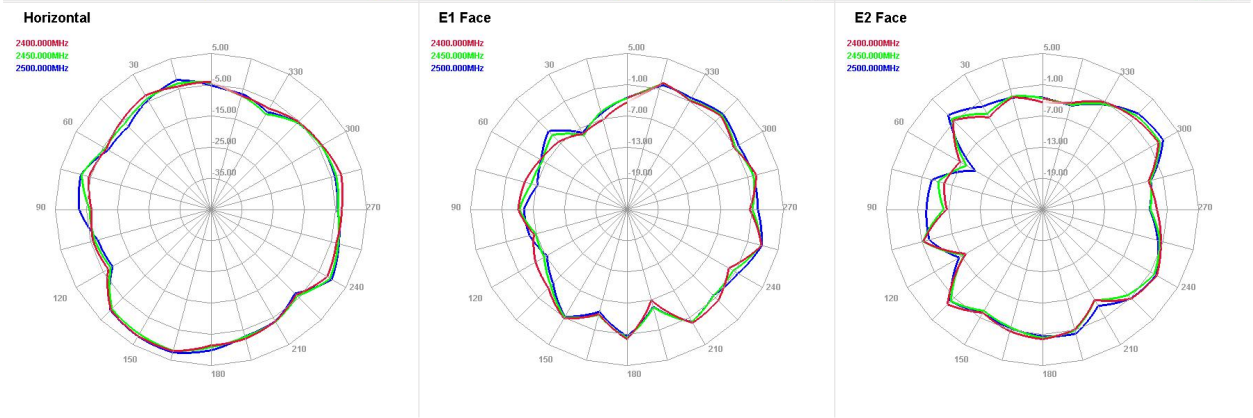


EVK which size is 90*50mm

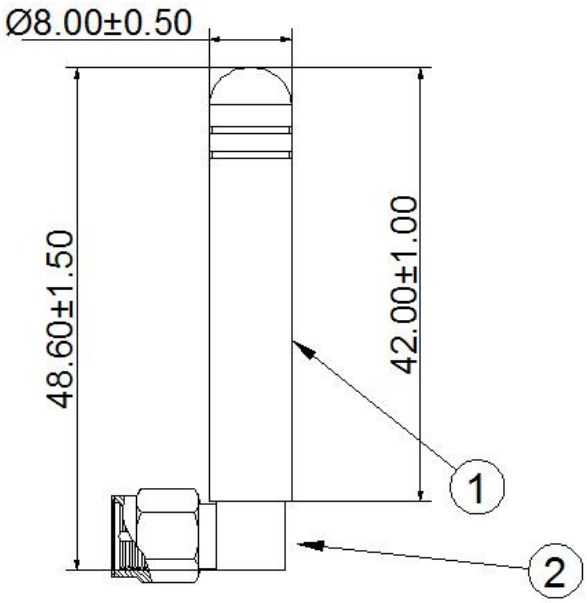

868.000MHz
915.000MHz


Horizontal
E1 Face
E2 Face
868.000MHz
915.000MHz


2400.000MHz
2450.000MHz
2500.000MHz


Horizontal
E1 Face
E2 Face
2400.000MHz
2450.000MHz
2500.000MHz

4. Antenna Drawing



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