



SWE030

PN: SW20023EB56



Sunnyway Technology

Add: Building 65-302, No.421 Hongcao Road, Xuhui District, Shanghai

Tel: +86-021-6484 2326 Fax: +86-021-6484 2328

Email: sales@sunny-way.com Web: www.sunny-way.com



1. Electrical Specifications

Standards	LoRa 868	LoRa 915
Frequency range (MHz)	868MHz	915 MHz
Peak Gain (dBi)	2.19dBi	1.96 dBi
Average Gain (dB)	-3.46dB	-3.21 dB
VSWR	1.74	1.51
Return Loss	-11.38	-13.80
Efficiency (%)	45.09 %	47.73%
Polarization mode	Linear	Linear
Radiation pattern	Omni-Directional	Omni-Directional
Output impedance (Ω)	50	50
Max. Input Power(W)	25	25

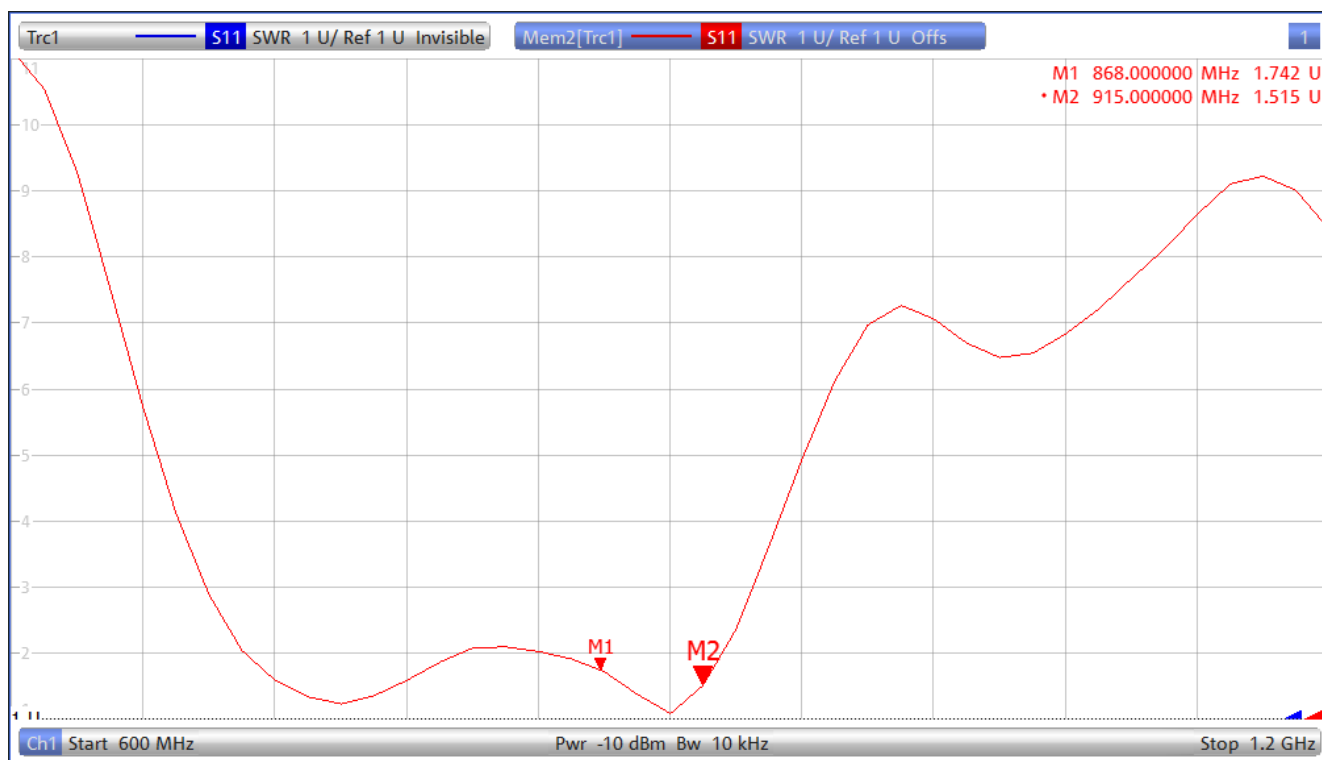
2. Mechanical and Environmental Specification

Mounting Type	Connector Mount
Connector Type	SMA
Antenna size(mm)	109mm* $\varnothing$ 10mm
Material	ABS
Operating Temperature ($^{\circ}\text{C}$)	- 40 $^{\circ}\text{C}$ ~ + 85 $^{\circ}\text{C}$
Storage Temperature($^{\circ}\text{C}$)	- 40 $^{\circ}\text{C}$ ~ + 85 $^{\circ}\text{C}$

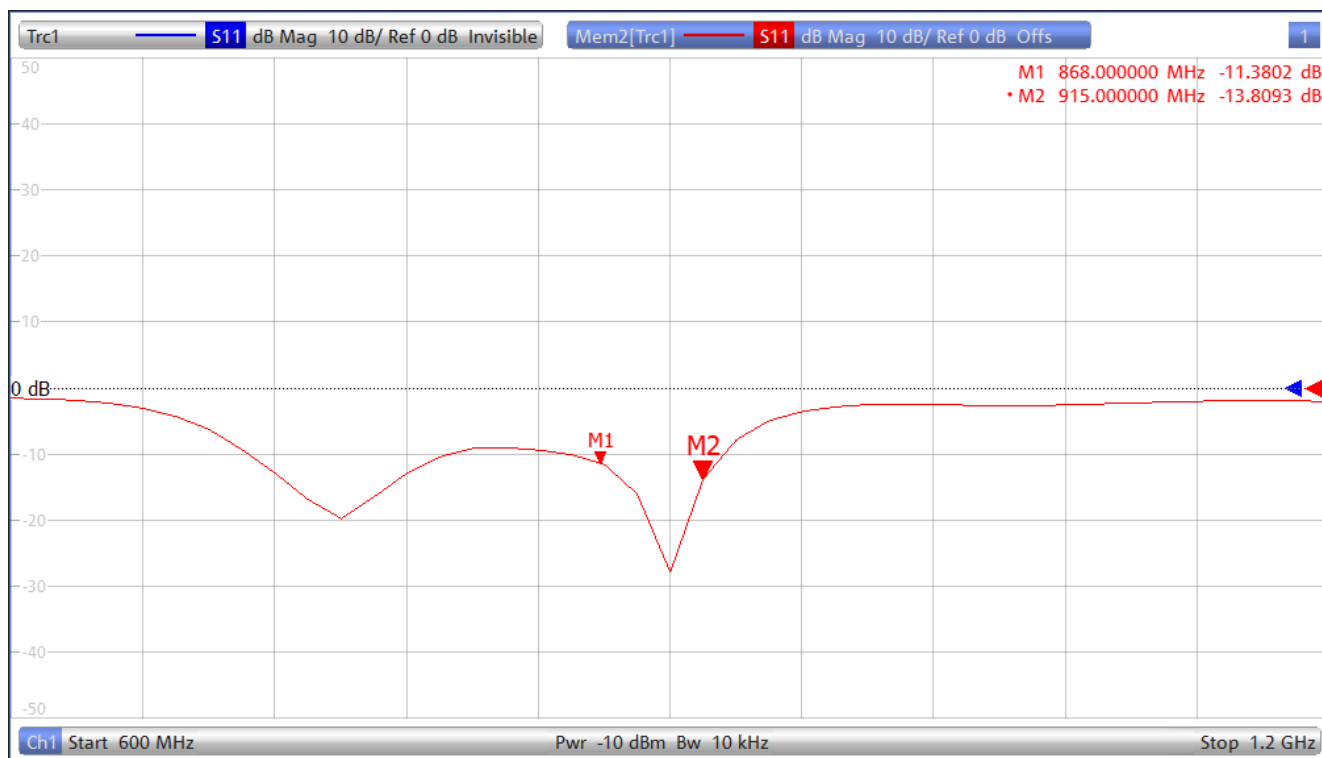


3. Antenna parameters

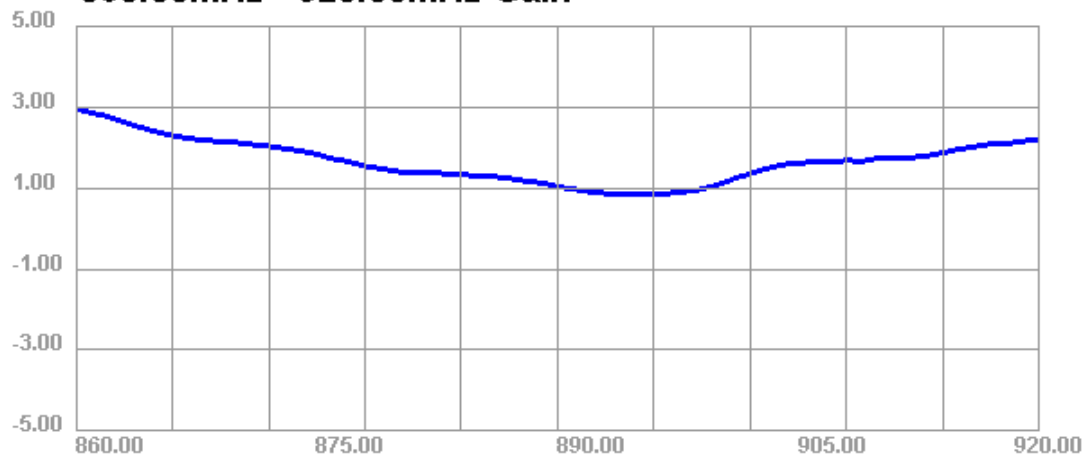
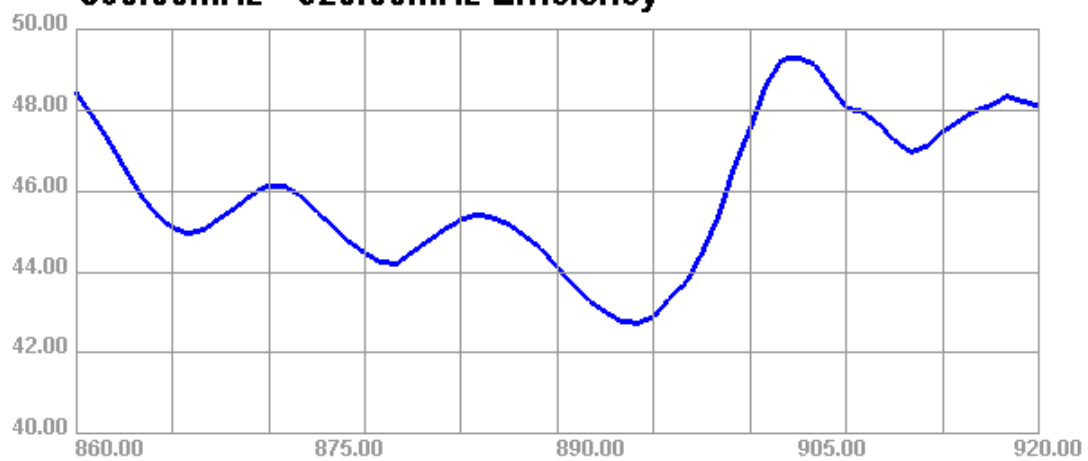
FRE (MHz)	868	915
VSWR	1.74	1.51
Return Loss	-11.38	-13.80
Eff (%)	45.09 %	47.73%
Average Gain(dB)	-3.46	-3.21



VSWR



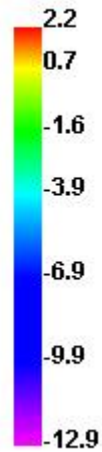
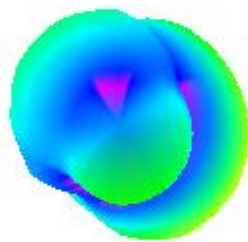
Return Loss

**860.00MHz - 920.00MHz Gain****860.00MHz - 920.00MHz Efficiency**

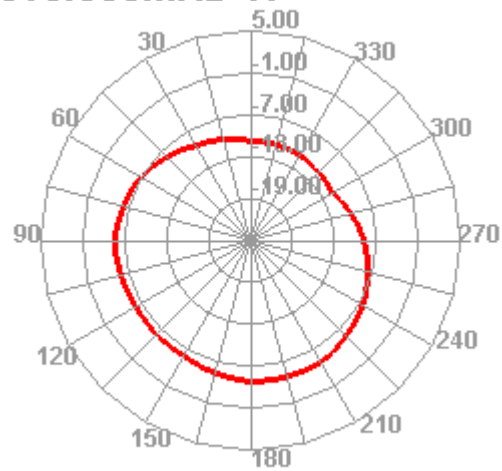


Directional pattern

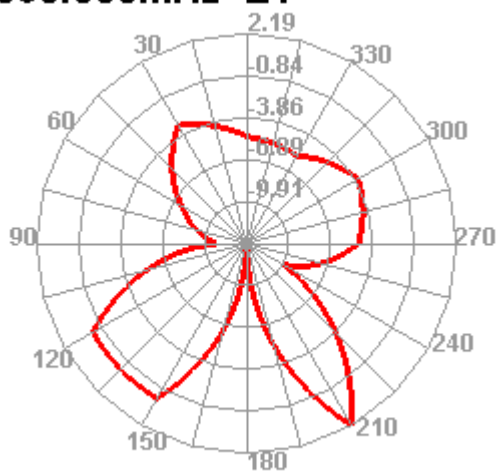
868.000MHz



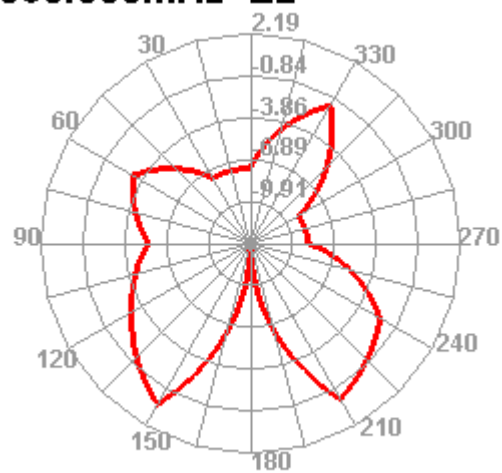
868.000MHz H

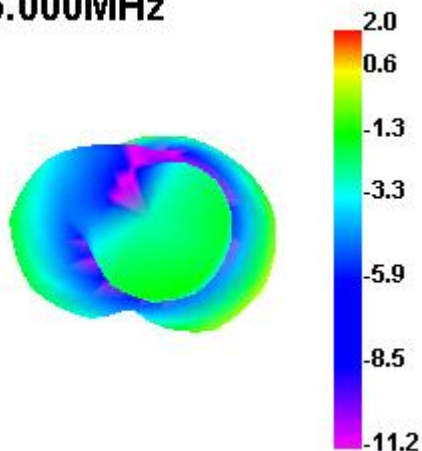
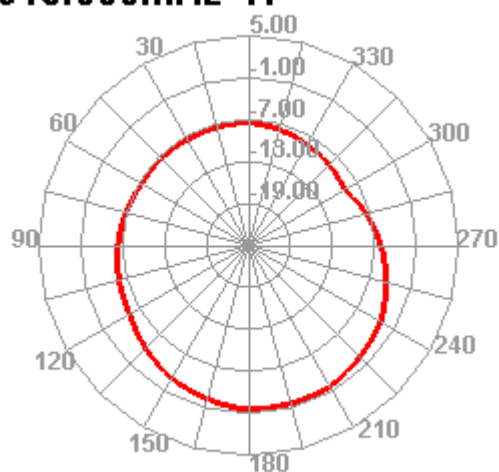
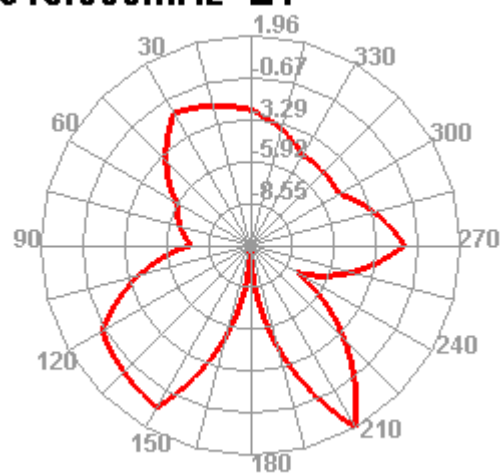
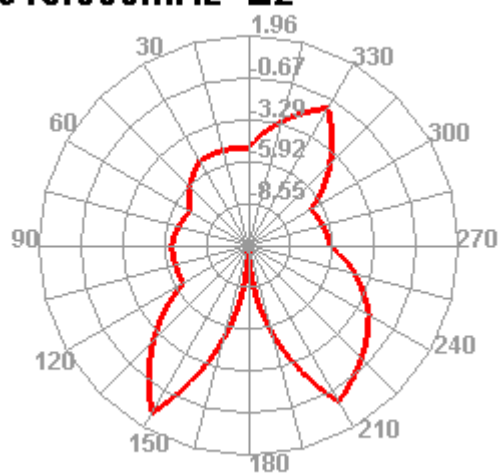


868.000MHz E1



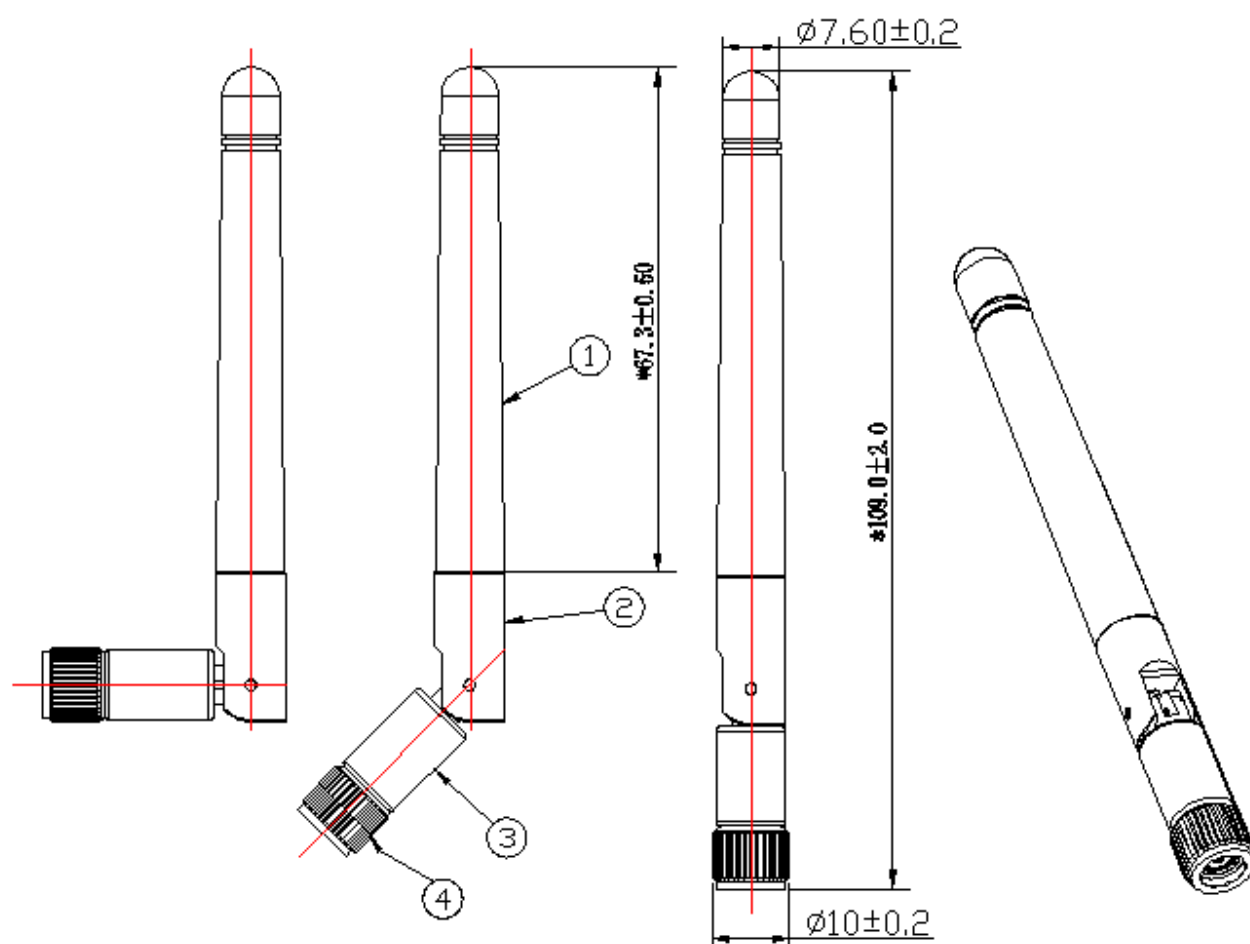
868.000MHz E2



**915.000MHz****915.000MHz H****915.000MHz E1****915.000MHz E2**



4. Antenna Drawings



4	SMA	SMA-J	black	1
3	Lower Firmware	ABS	black	1
2	Upper firmware	ABS	black	1
1	nomenclon	ABS	black	1
Series	Component name	Specification	Color	Quantity