SUNNYWAY

SWE005

PN: SW19035EB56



Sunnyway Technology

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1. Electrical Specifications

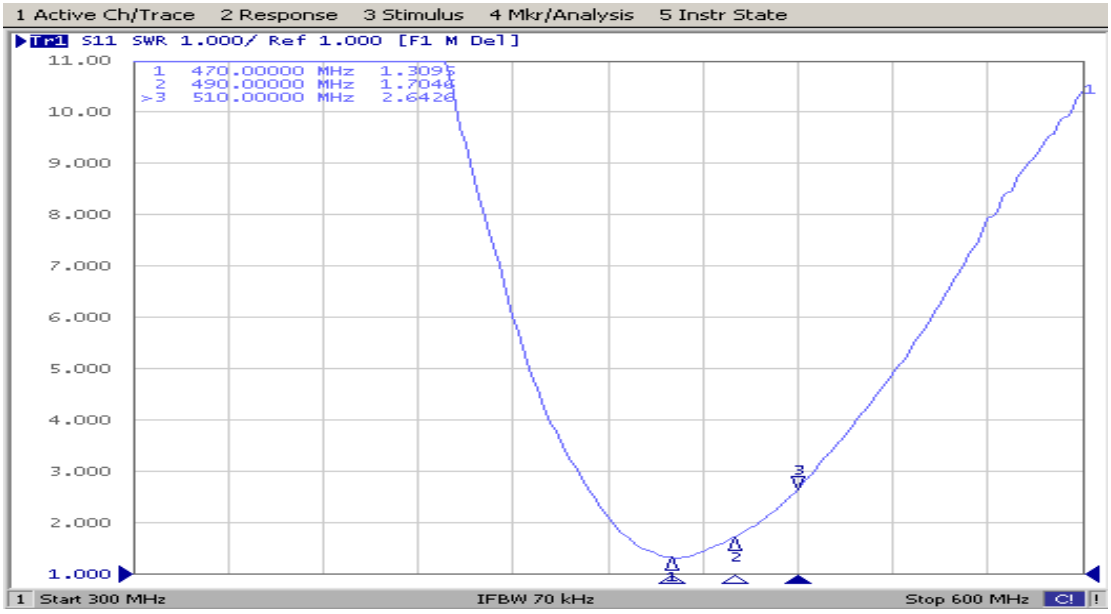
Standards	LoRa
Frequency range (MHz)	470-510MHz
Peak Gain (dBi)	-1.0~1.5dBi
Average Gain (dB)	-3.9~-2.3dB
VSWR	<3.0
Return Loss	<-6.5
Efficiency (%)	40~60%
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

2. Mechanical and Environmental Specification

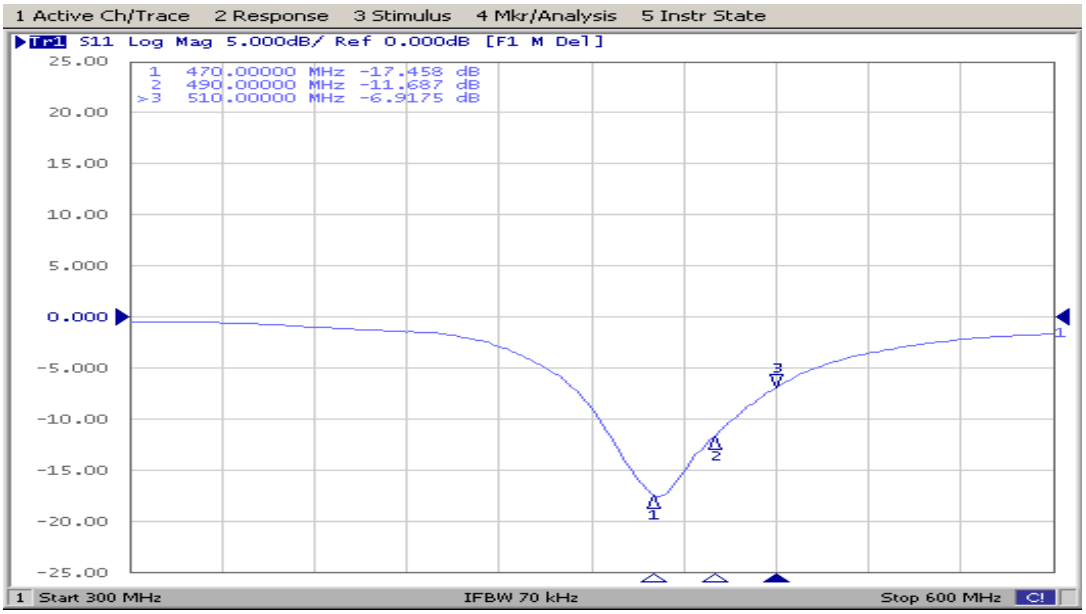
Mounting Type	Connector Mount
Connector Type	SMA
Antenna size(mm)	109mm*φ10mm
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

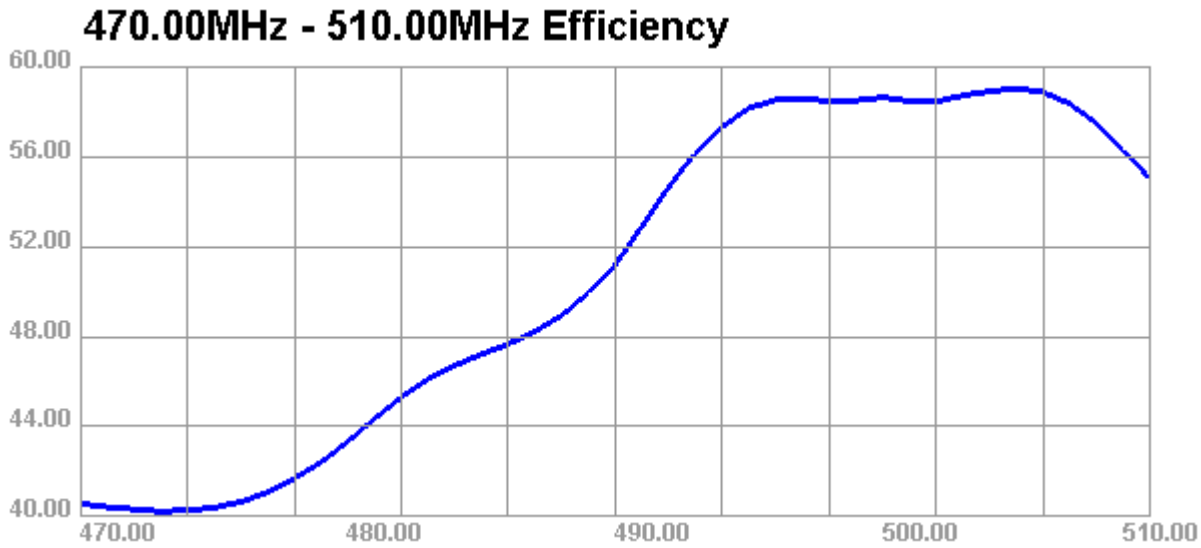
FRE（MHz）	470	490	510
VSWR	1.3	1.7	2.6
Return Loss	-17.4	-11.6	-6.9
Eff (%)	40.5	51.2	55.0
Average Gain(dB)	-3.9	-2.9	-2.6

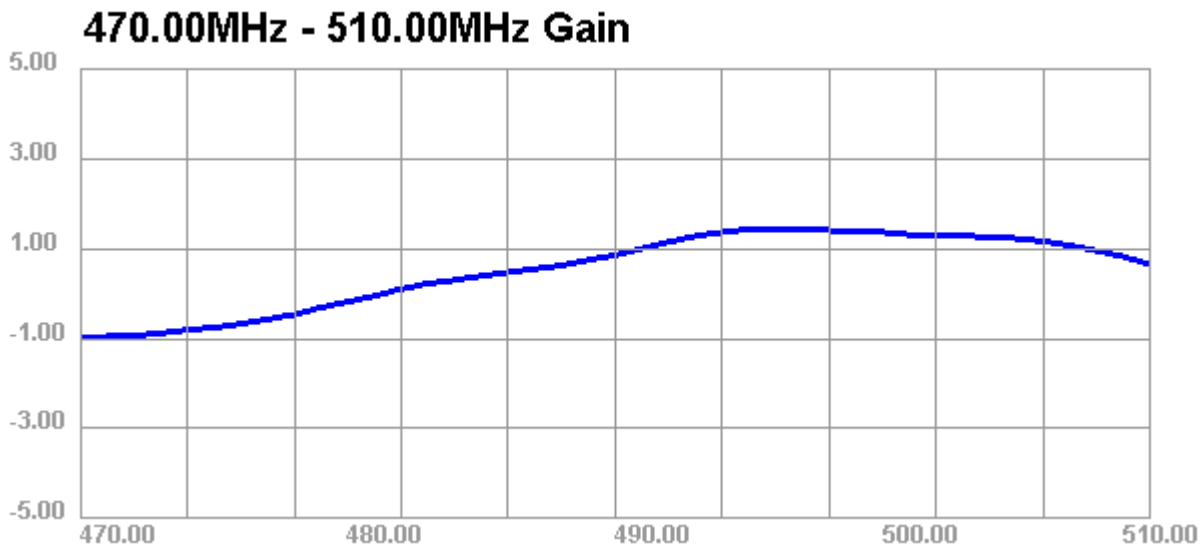


VSWR

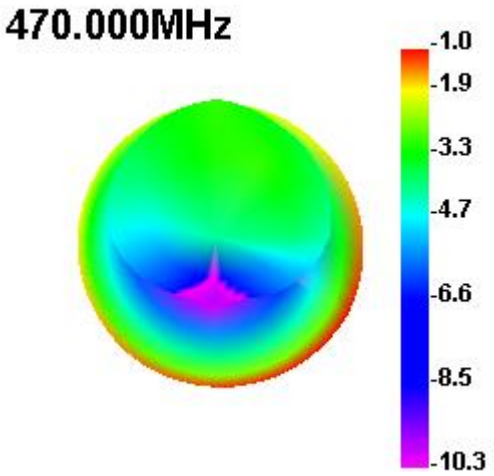


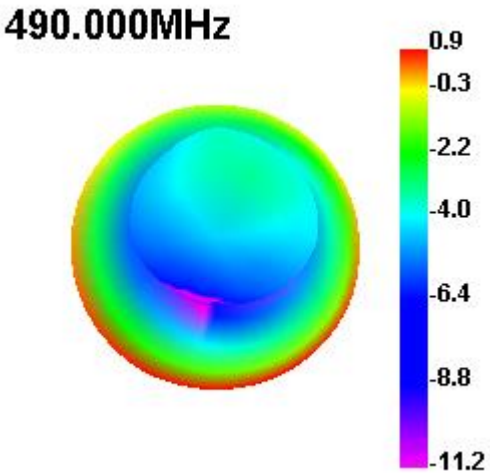
Return Loss

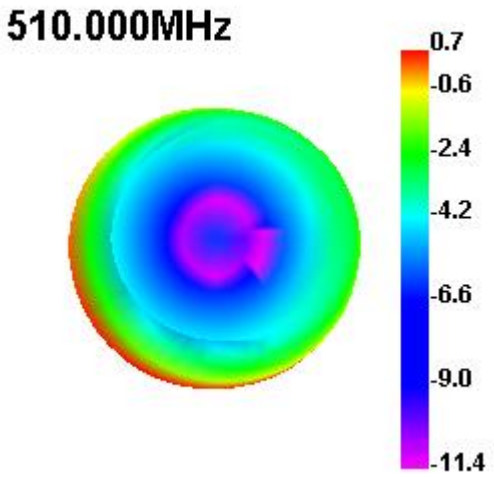

470.00MHz - 510.00MHz Efficiency
60.00
56.00
52.00
48.00
44.00
40.00
470.00
480.00
490.00
500.00
510.00


470.00MHz - 510.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
470.00
480.00
490.00
500.00
510.00

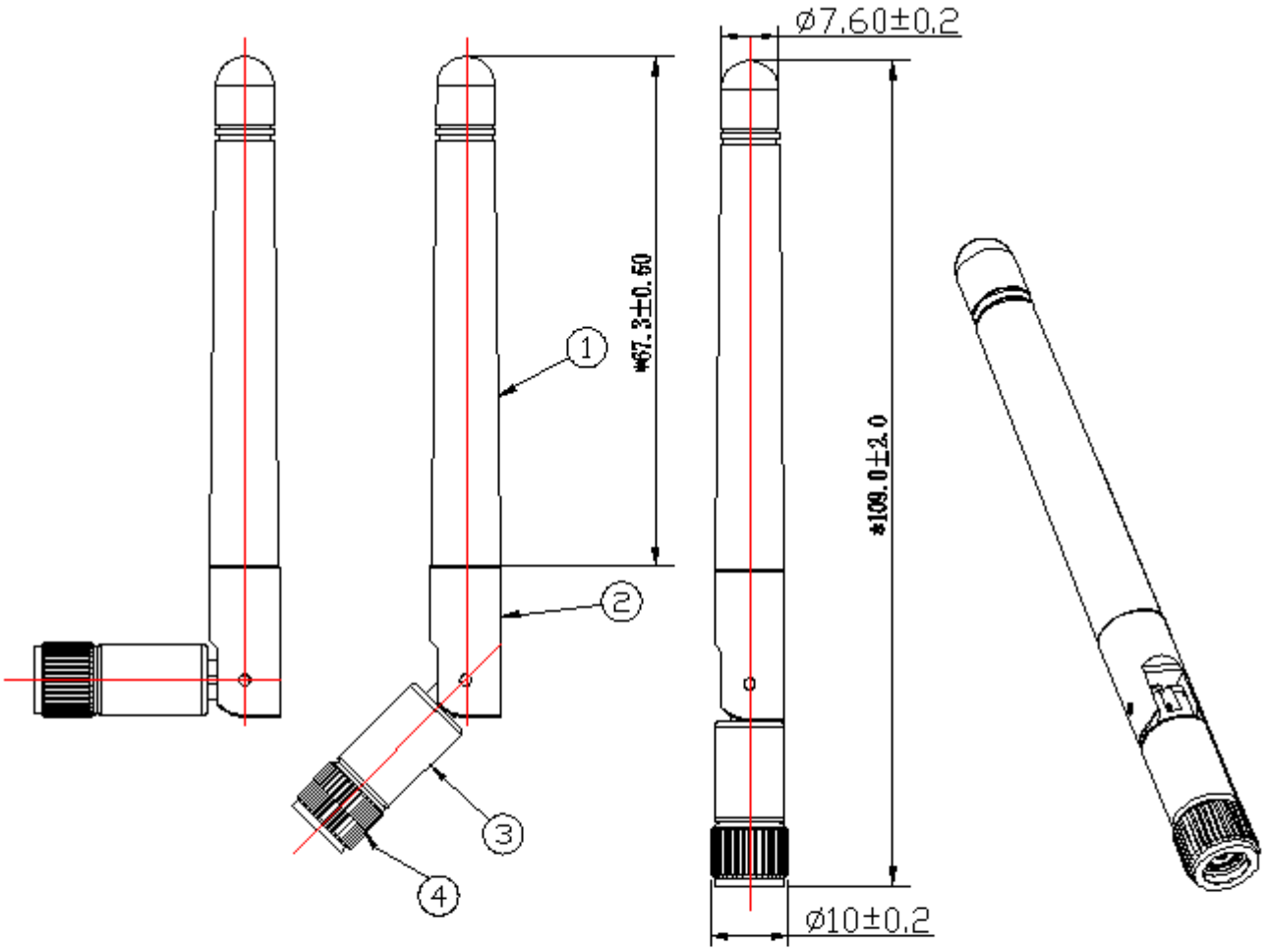
Directional pattern







4. Antenna Drawings



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