SUNNYWAY

SWE016

PN: SW19046EB56



Sunnyway Technology

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1. Electrical Specifications

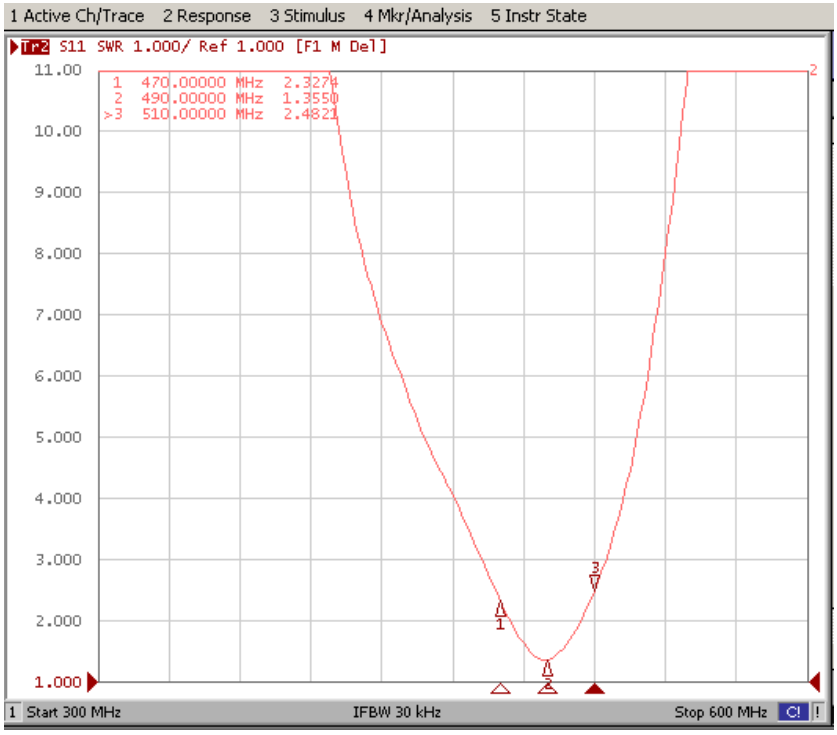
Standards	LoRa
Frequency range (MHz)	470~510MHz
Peak Gain (dBi)	-0.7~1.39dBi
Average Gain (dB)	-1.86~-4.07dB
VSWR	<2.48
Return Loss	<-7.61
Efficiency (%)	39~65%
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

2. Mechanical and Environmental Specification

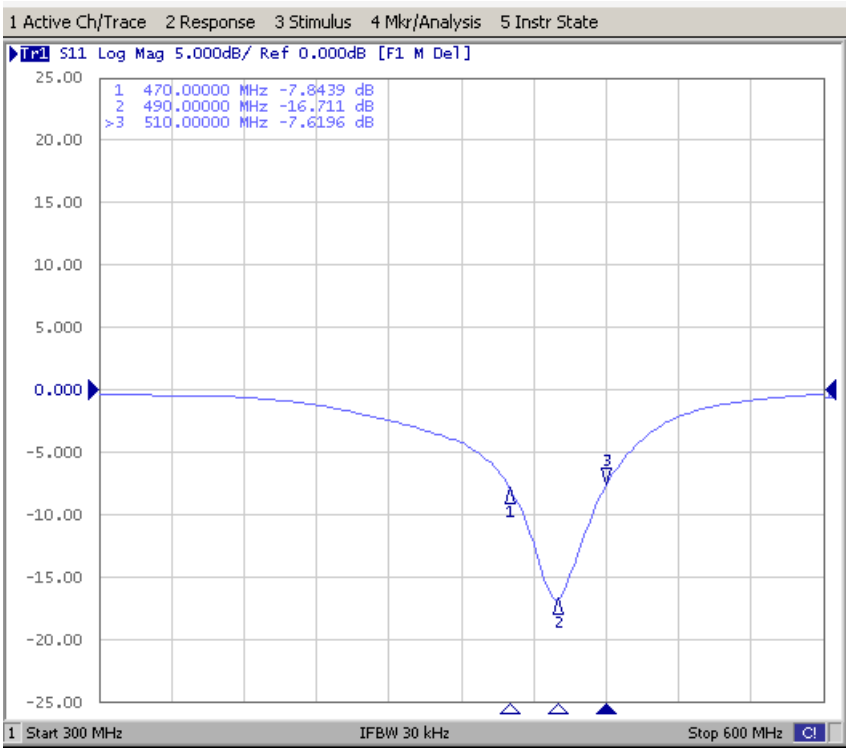
Mounting Type	Connector Mount
Connector Type	SMA
Antenna size(mm)	47.3mm*φ8.5mm
Material	ABS
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

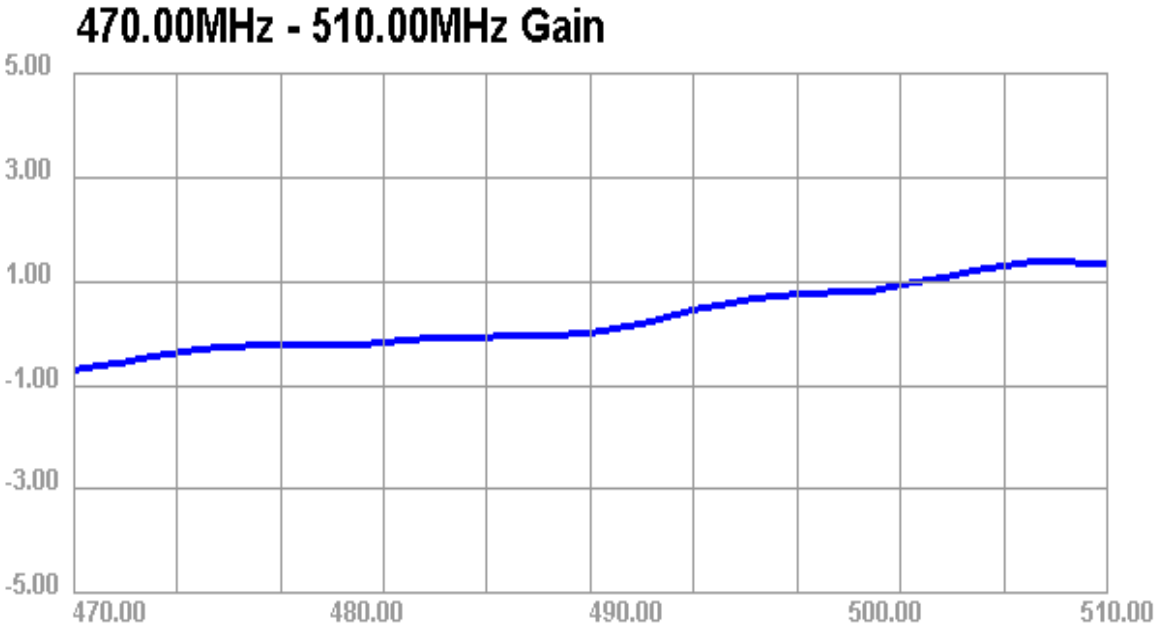
FRE（MHz）	470	490	510
VSWR	2.32	1.35	2.48
Return Loss	-7.84	-16.7	-7.61
Eff (%)	39.2	44.12	65.2
Average Gain(dB)	-4.07	-3.55	-1.86

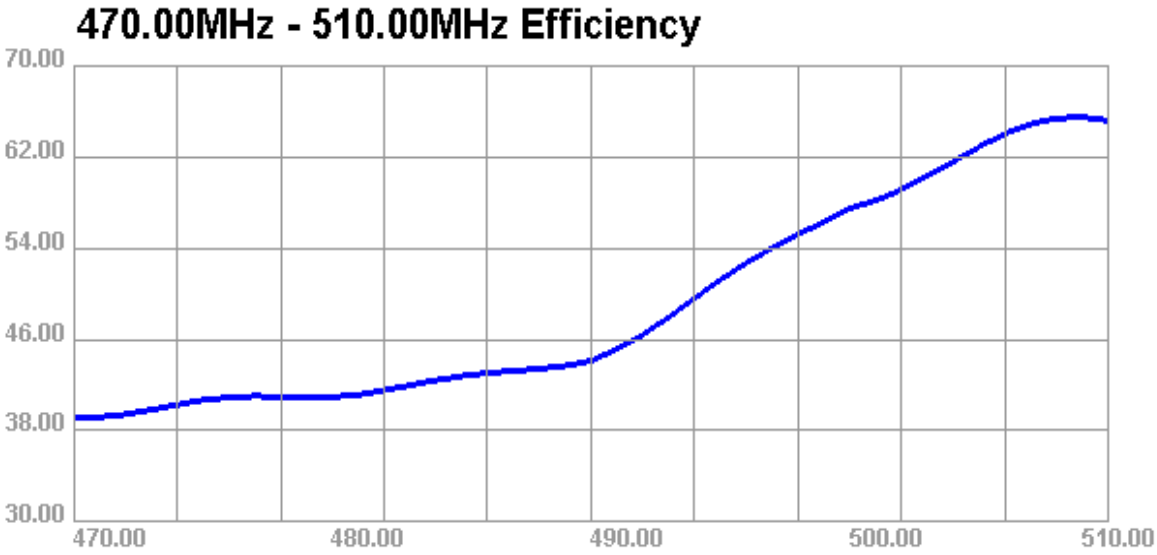


VSWR

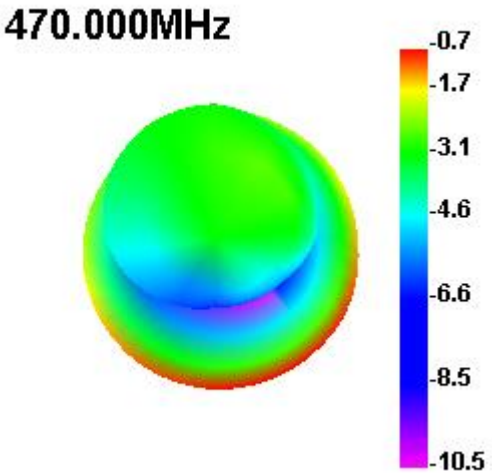


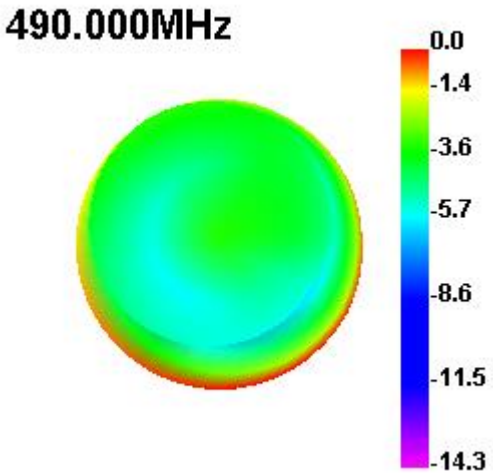
Return Loss

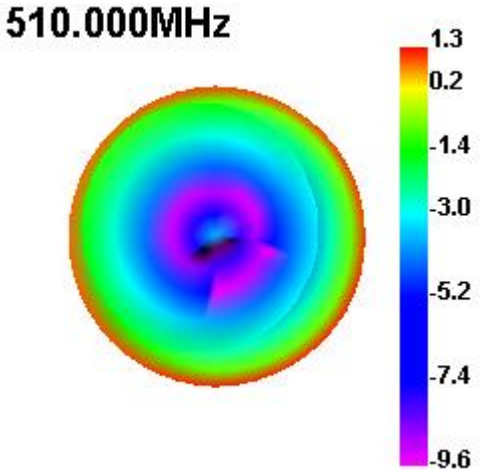

470.00MHz - 510.00MHz Gain
5.00
3.00
1.00
-1.00
-3.00
-5.00
470.00
480.00
490.00
500.00
510.00


470.00MHz - 510.00MHz Efficiency
70.00
62.00
54.00
46.00
38.00
30.00
470.00
480.00
490.00
500.00
510.00

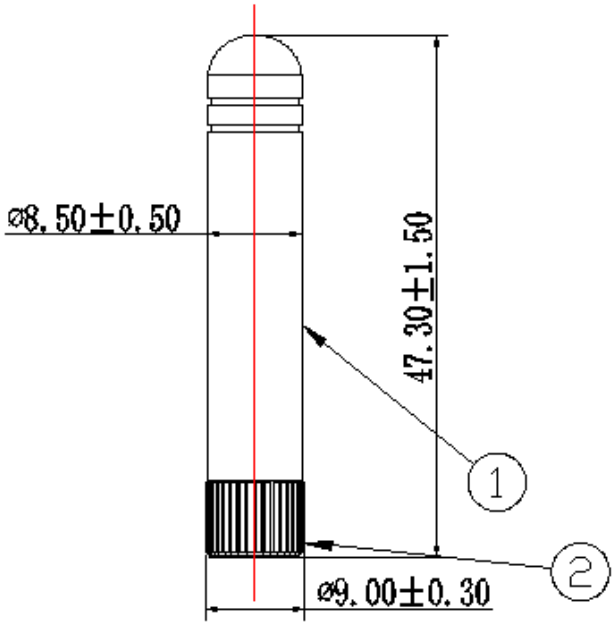
Directional pattern







4. Antenna Drawings



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