SUNNYWAY

SWE003

PN: SW19033EB78



Sunnyway Technology

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1. Electrical Specifications

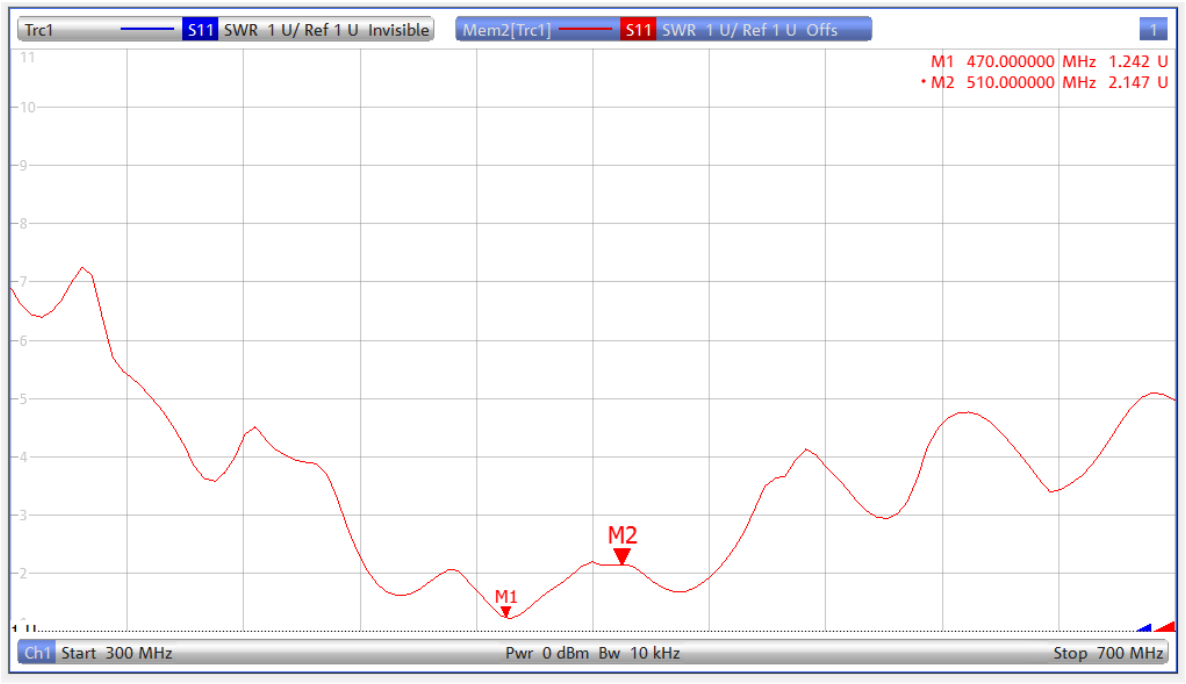
Standards	LoRa
Frequency range (MHz)	470~510MHz
Peak Gain (dBi)	-1.5~-0.5dBi
Average Gain (dB)	-5.5~-5.0dB
VSWR	< 2.2
Return Loss	< -8.0
Efficiency (%)	28~31%
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

2. Mechanical and Environmental Specification

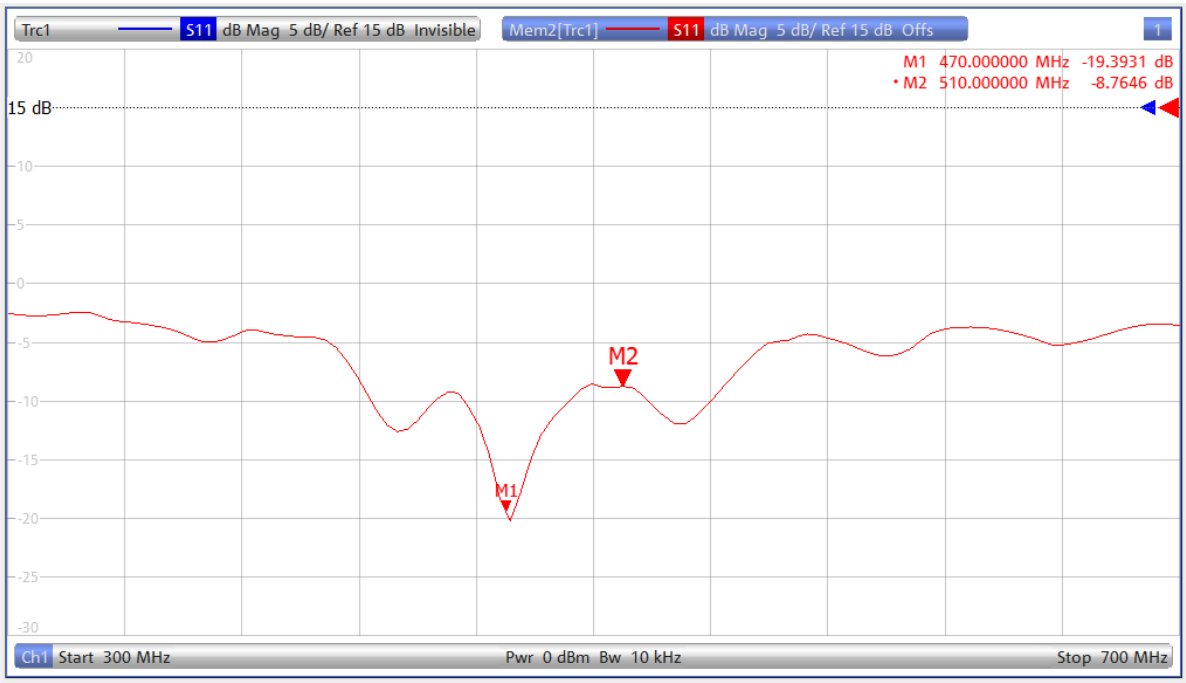
Mounting Type	Connector Mount
Connector Type	SMA (3M)
Antenna size(mm)	128mm*φ30mm
Material	ABS+PC
Operating Temperature (˚C)	- 40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	- 40 ˚C ~ + 85 ˚C

3. Antenna parameters

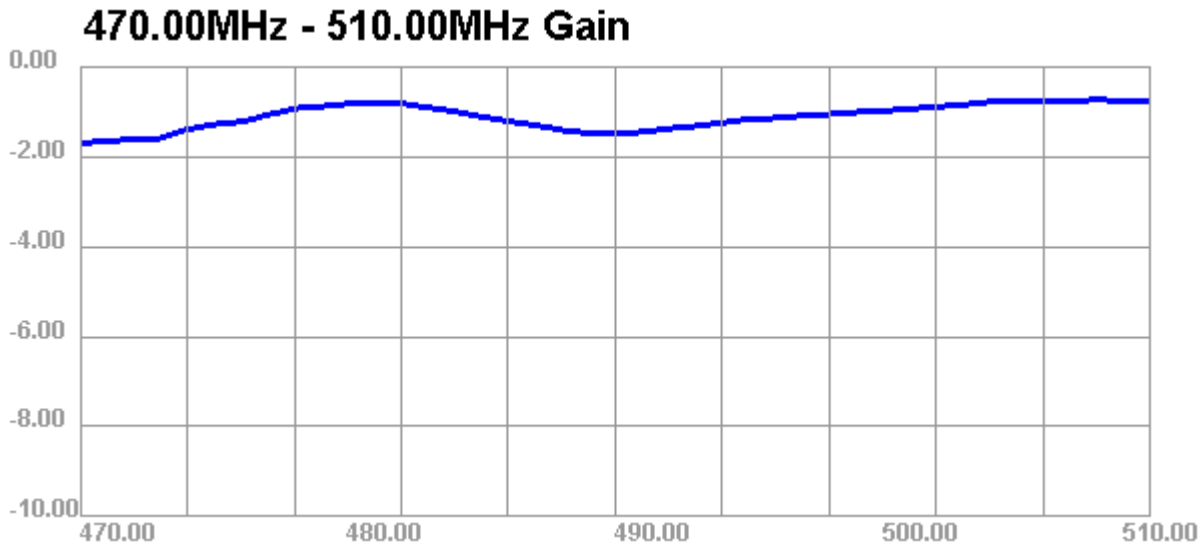
FRE（MHz）	470	510
VSWR	1.24	2.14
Return Loss	-19.39	-8.76
Eff (%)	29.5	31.2
PEAK Gain (dBi)	-1.69	-0.76

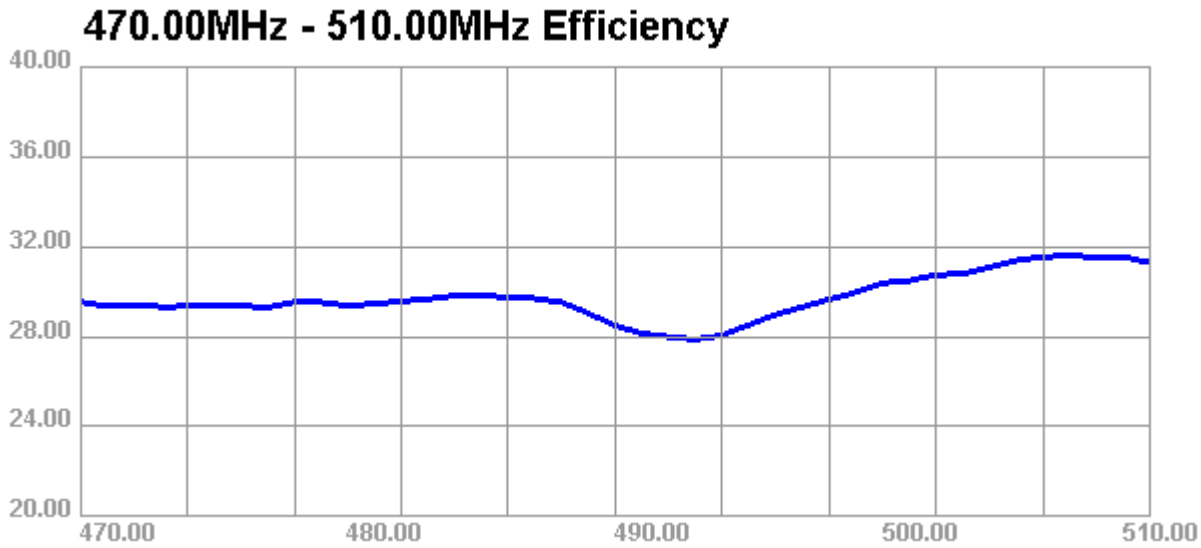


VSWR

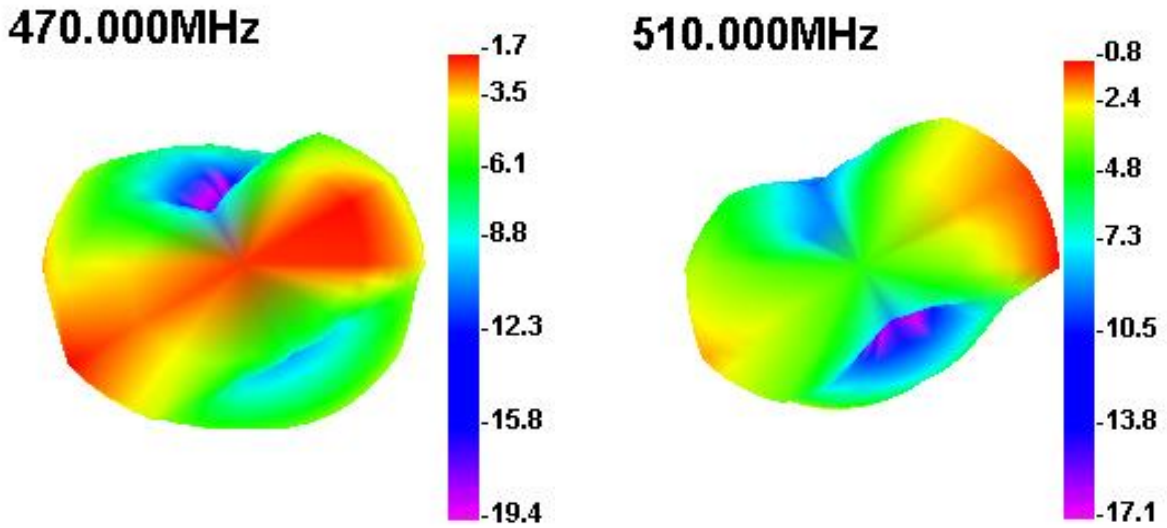


Return Loss

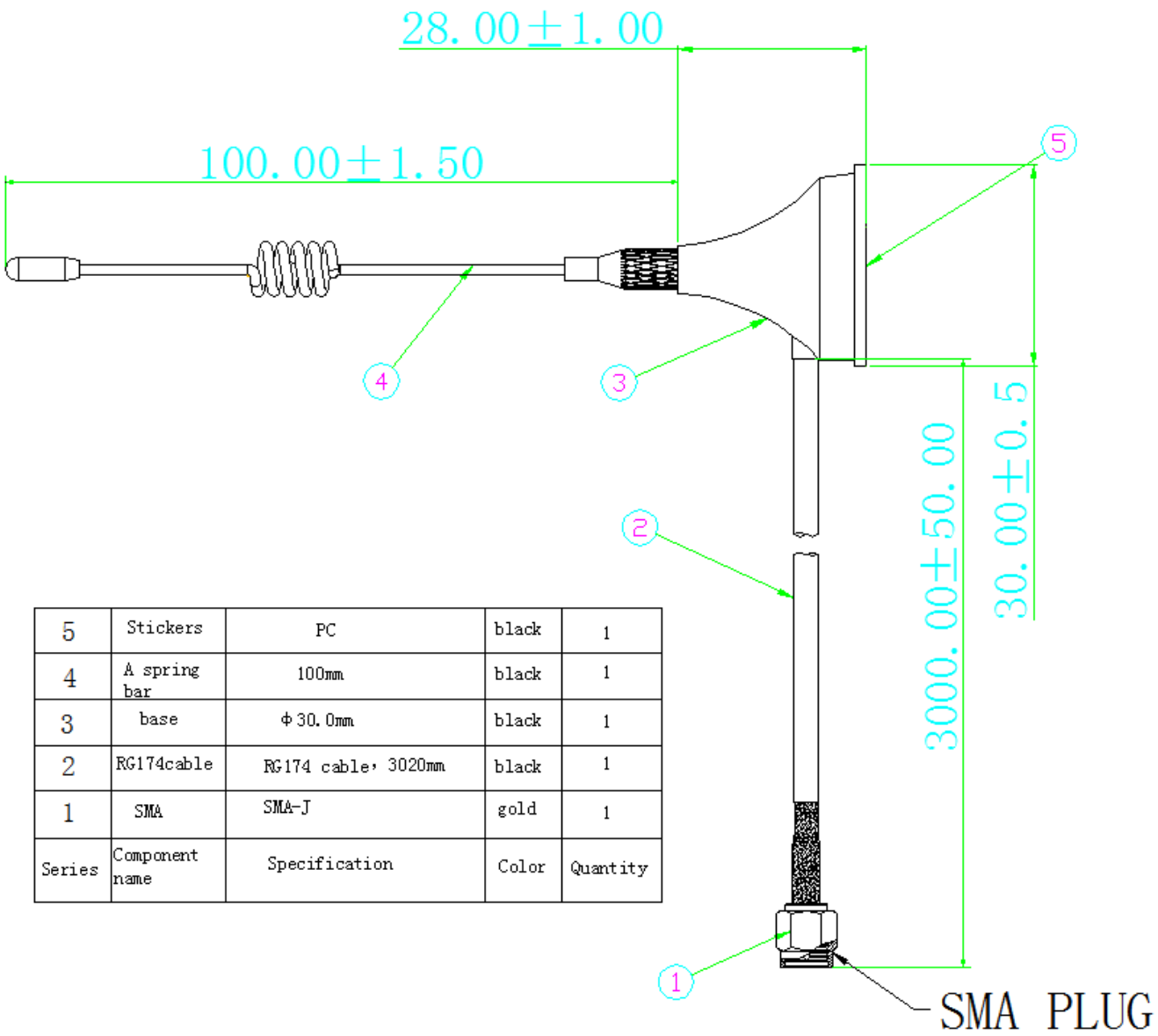

470.00MHz - 510.00MHz Gain
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
470.00
480.00
490.00
500.00
510.00


470.00MHz - 510.00MHz Efficiency
40.00
36.00
32.00
28.00
24.00
20.00
470.00
480.00
490.00
500.00
510.00

Directional pattern



4. Antenna Drawings



Series	Component name	Specification	Color	Quantity
5	Stickers	PC	black	1
4	A spring bar	100mm	black	1
3	base	Φ30.0mm	black	1
2	RG174cable	RG174 cable, 3020mm	black	1
1	SMA	SMA-J	gold	1