SUNNYWAY

SWS001

PN: SW19011IA67



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1. Electrical Specifications

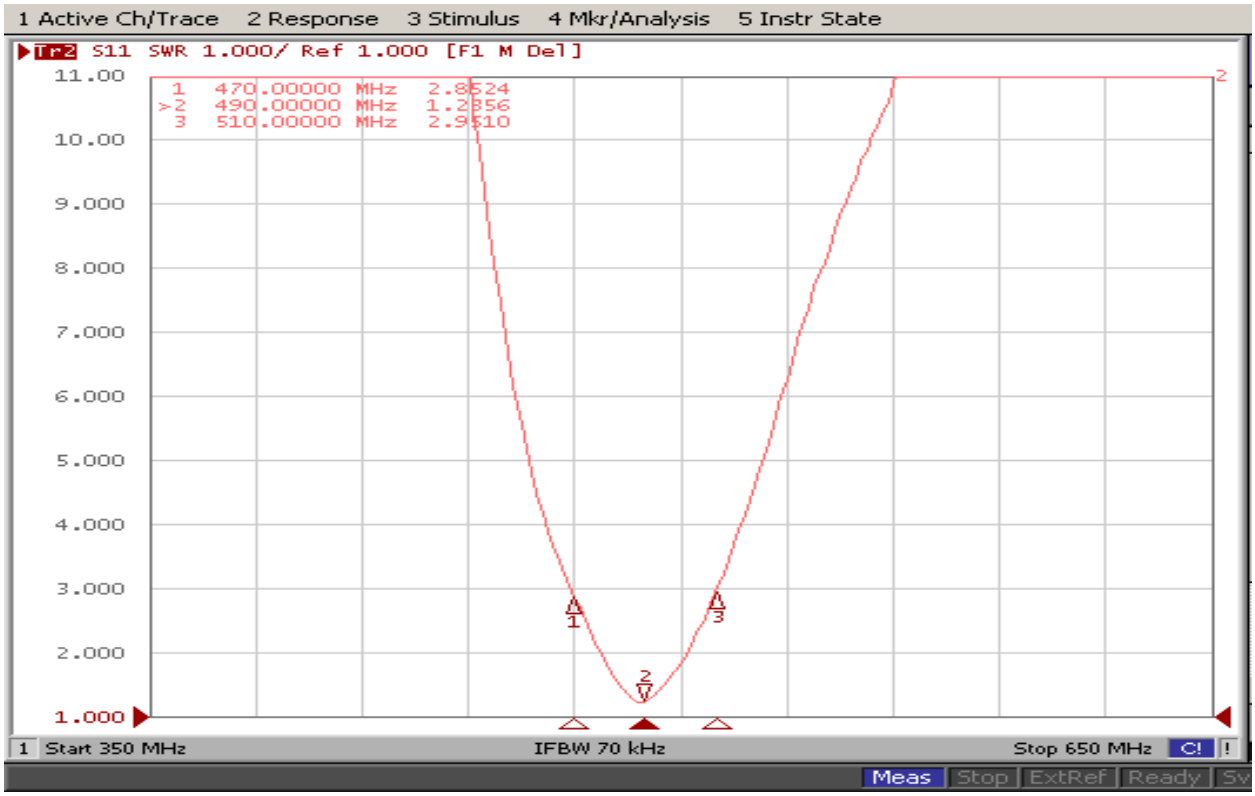
Standards	LoRa
Frequency range (MHz)	470~510MHz
Peak Gain (dBi)	0~1.5dBi
Average Gain (dB)	-4.9~-3.9dB
VSWR	<3.0
Return Loss	<-6.0
Efficiency (%)	32~40%
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

2. Mechanical and Environmental Specification

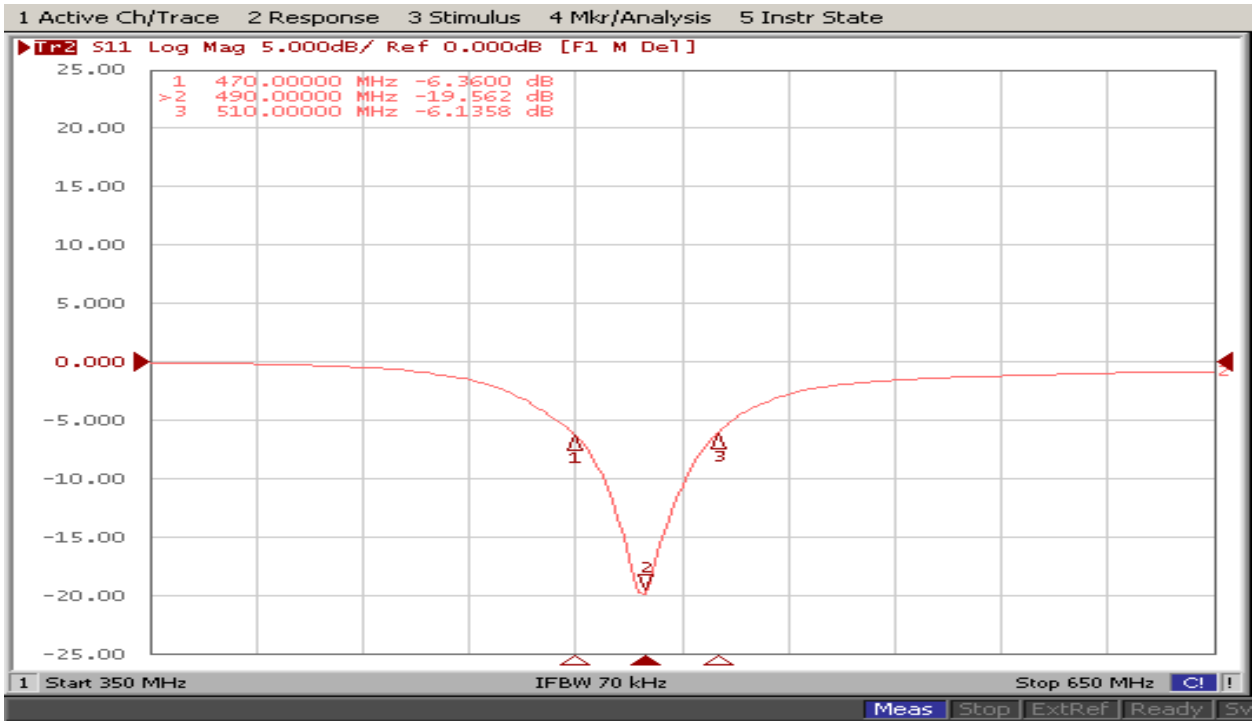
Mounting Type	Welding
Antenna size(mm)	φ5.7x 34.01 (H)
Material	Spring
Operating Temperature (˚C)	-40 ˚C ~ + 85 ˚C
Storage Temperature(˚C)	-40 ˚C ~ + 85 ˚C

3. Antenna parameters

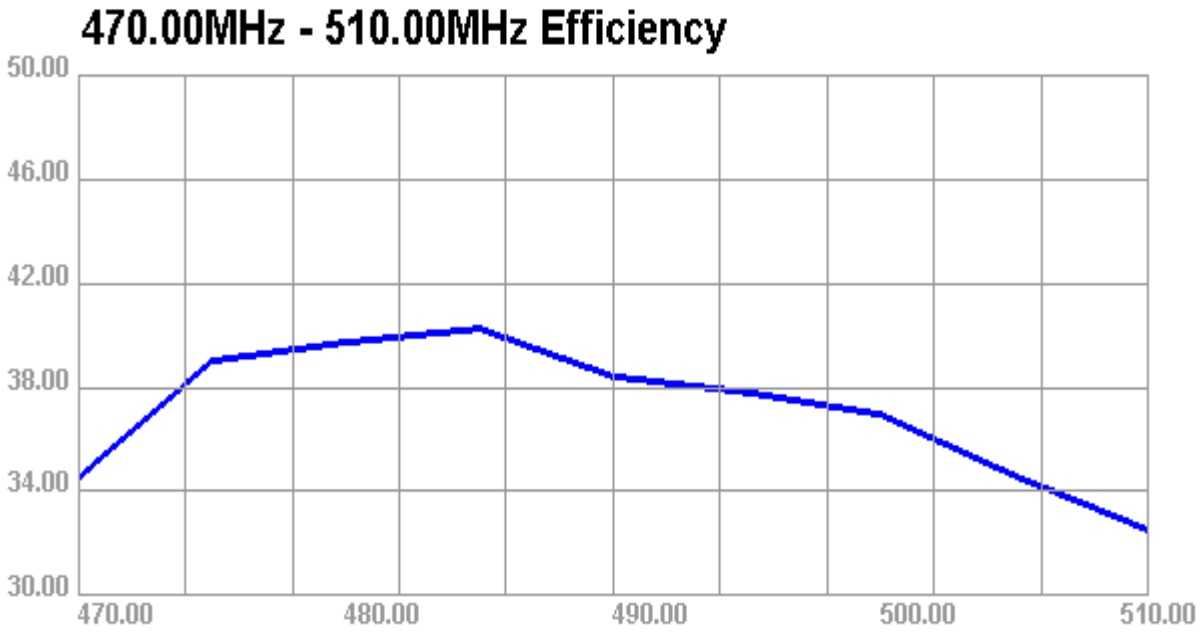
FRE（MHz）	470	490	510
VSWR	2.8	1.2	2.9
Return Loss	-6.3	-19.5	-6.1
Eff (%)	34.5	38.5	32.5
Average Gain(dB)	-4.6	-4.1	-4.8

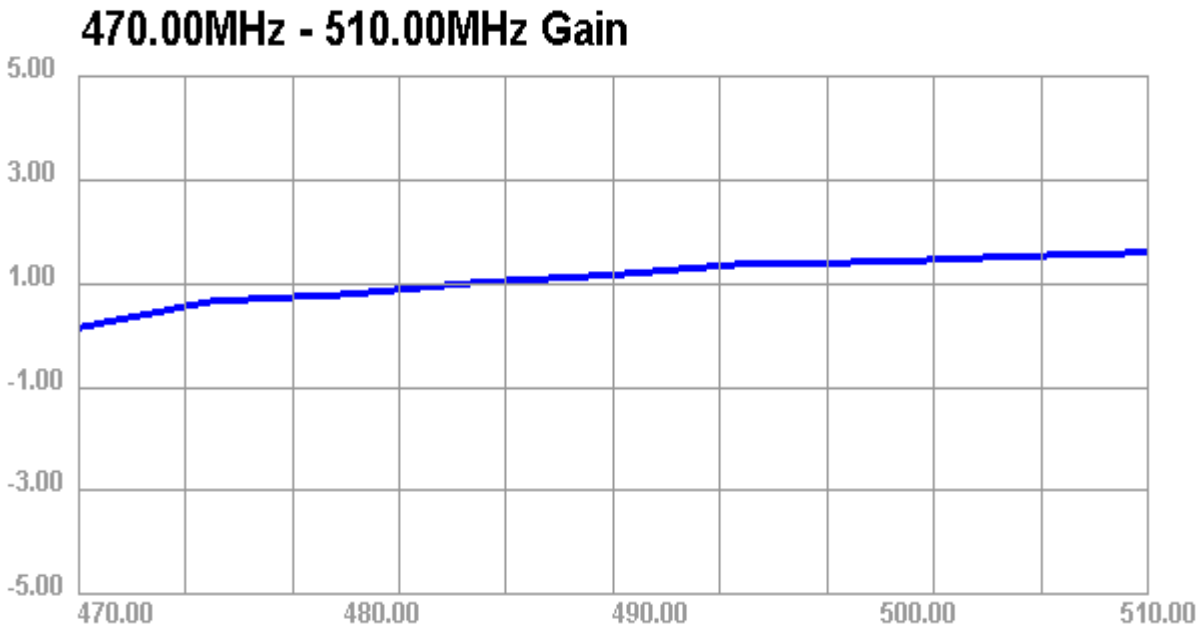


VSWR

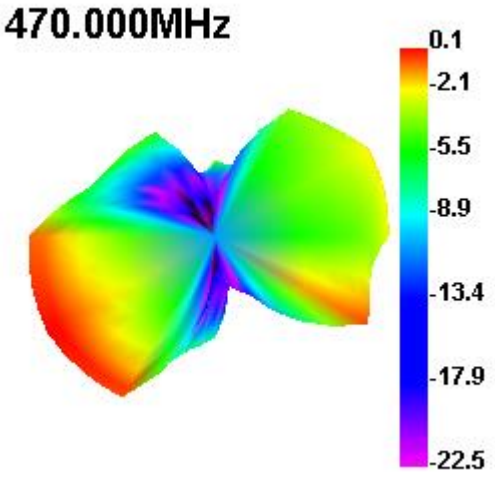

1 Active Ch/Trace
2 Response
3 Stimulus
4 Mkr/Analysis
5 Instr State
Tr2 S11 Log Mag 5.000dB/ Ref 0.000dB [F1 M Del]
1 470.00000 MHz -6.3600 dB
>2 490.00000 MHz -19.562 dB
3 510.00000 MHz -6.1358 dB
25.00
20.00
15.00
10.00
5.000
0.000
-5.000
-10.00
-15.00
-20.00
-25.00
1 Start 350 MHz
IFBW 70 kHz
Stop 650 MHz
Meas
Stop
ExtRef
Ready

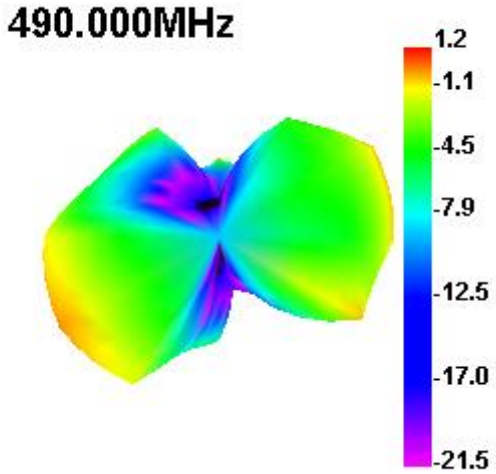
Return Loss

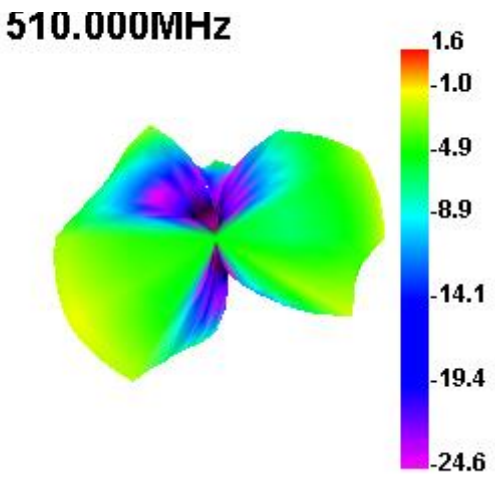

470.00MHz - 510.00MHz Efficiency
50.00
46.00
42.00
38.00
34.00
30.00
470.00
480.00
490.00
500.00
510.00



Directional pattern







4. Antenna Drawings

