



SWS001

PN:SW19011IA67

Features:

- Antenna for 470~510MHz.
- Maintains high performance on device.
- High gain.
- Impedance 50 Ohm.

Applications:

- Remote monitoring.
- Network Devices.
- Gateway.
- Router.
- Others.

1. Electrical Specification

Standards	LoRa
Frequency range (MHz)	470~510
Peak Gain (dBi)	0~1.5
Average Gain (dB)	-4.9~-3.9
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

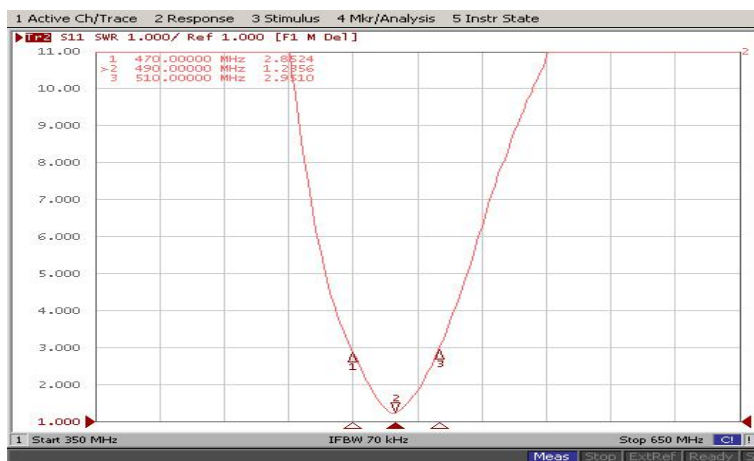
Mounting Type	Welding
Antenna size(mm)	ϕ 5.7x 34.01 (H)
Material	Spring
Operating Temperature (°C)	-40 °C ~ + 85 °C
Storage Temperature(°C)	-40 °C ~ + 85 °C

3. Antenna parameters

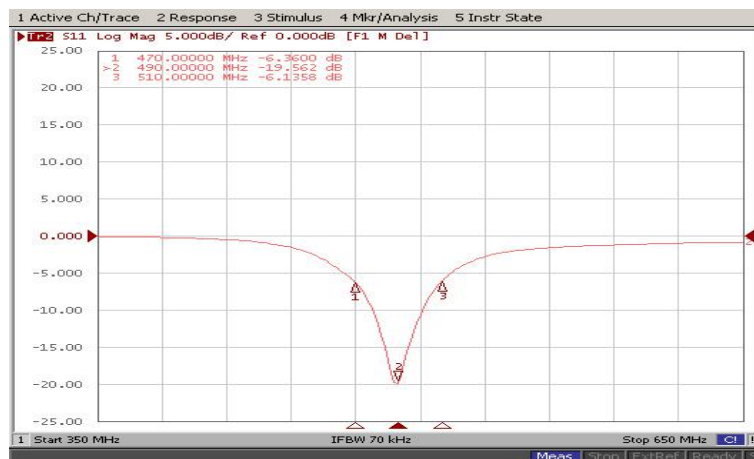
3.1 General Specification

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

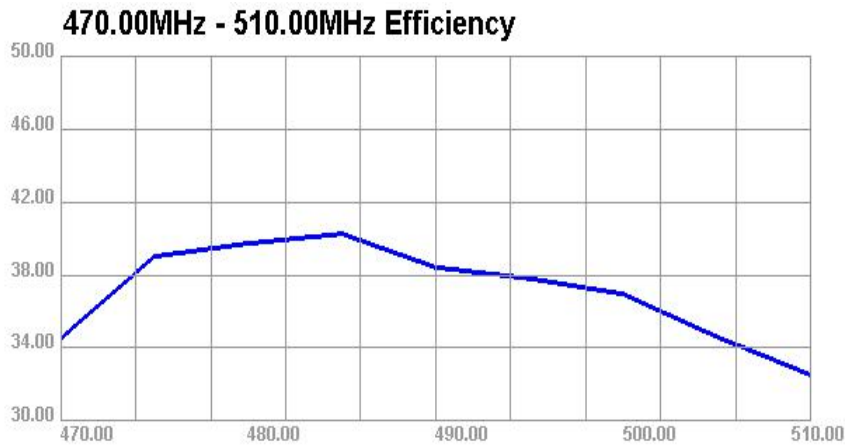
3.2 VSWR



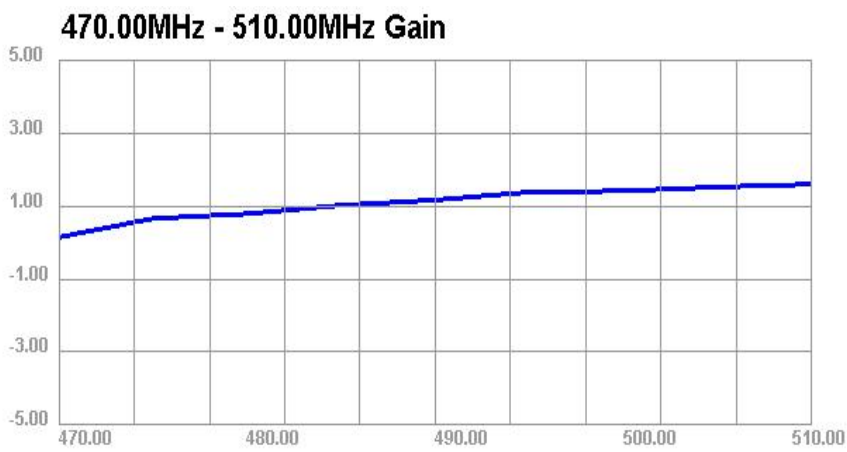
3.3 Return Loss



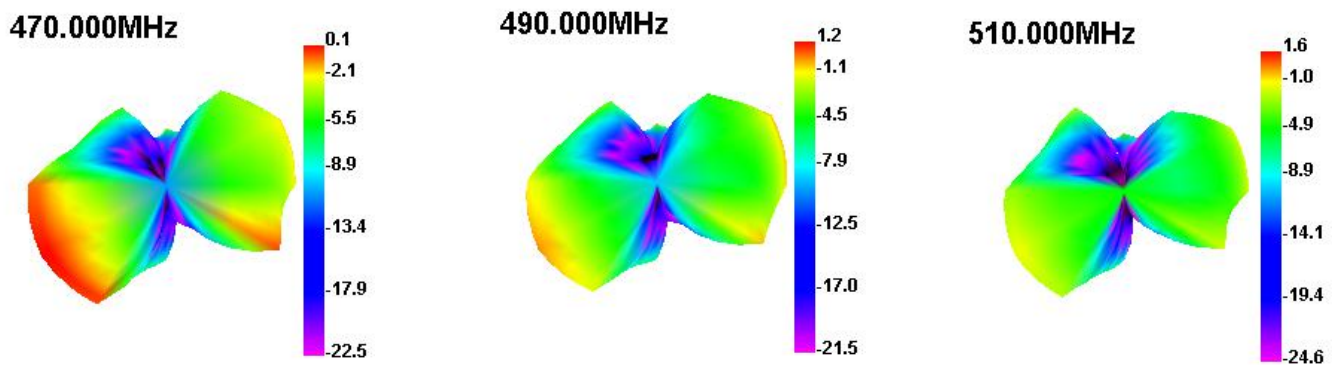
3.4 Efficiency



3.5 Gain



3.6 Directional pattern



4. Antenna Drawing

