



OLS868

PN: SW24136IB17

Key features:

- Frequency for 868MHz
- Small size
- Ground Plane Dependent
- Impedance 50 Ohm

Typical applications:

- Remote monitoring
- Network Devices
- Gateway
- Router/CPE
- Others

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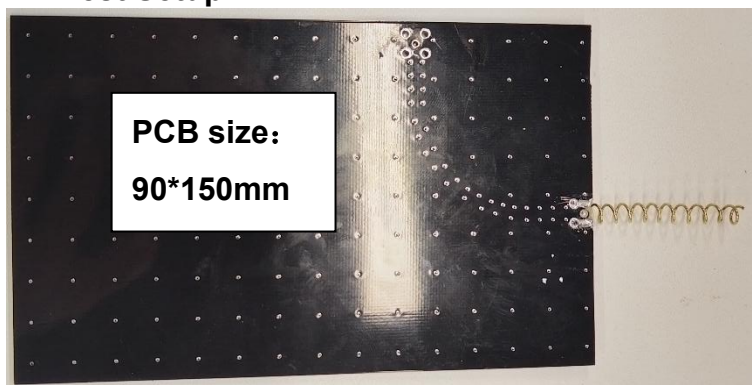
1. Specification

Electrical: Test on GND of 90 * 150mm	
Frequency range (MHz)	868MHz
Peak Gain (dBi)	2.65
Average Gain (dB)	-0.9
VSWR	1.20
Return Loss	-20.77
Efficiency (%)	81.35
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	5

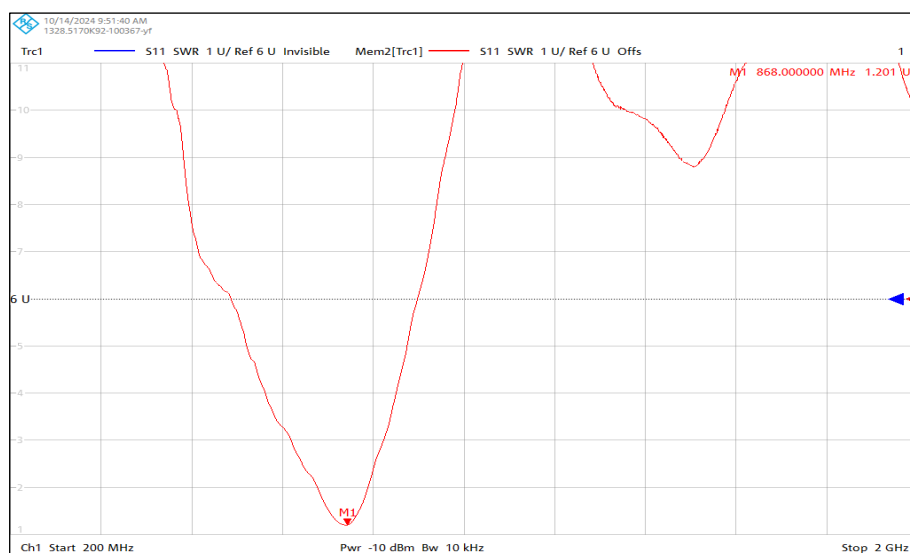
Mechanical	
Mounting Type	Welding
Antenna size(mm)	$\phi 5.0 \times 35.0(H)$
Material	Brass
Environmental	
Operating Temperature ($^{\circ}\text{C}$)	- 20 $^{\circ}\text{C}$ ~ + 65 $^{\circ}\text{C}$
Storage Temperature($^{\circ}\text{C}$)	-20 $^{\circ}\text{C}$ ~ + 65 $^{\circ}\text{C}$

2. Antenna Characteristics

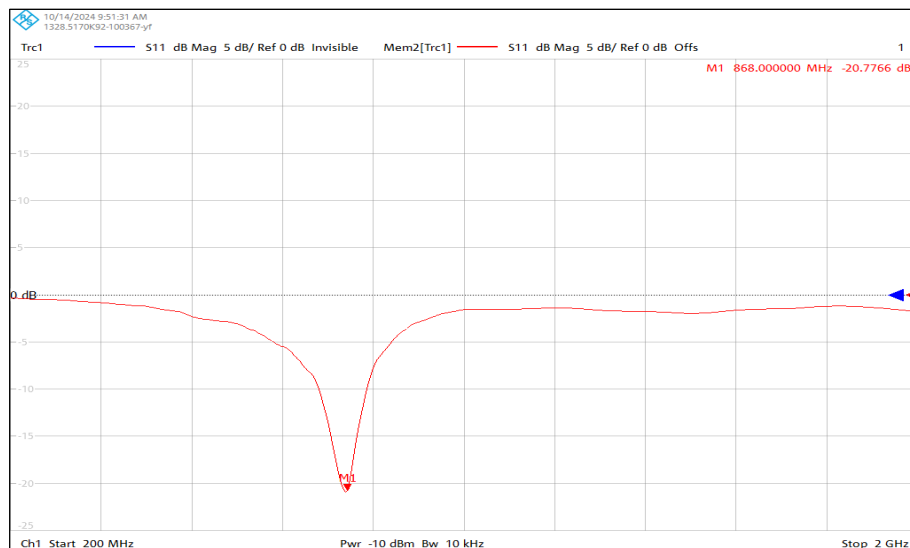
2.1 Test Setup



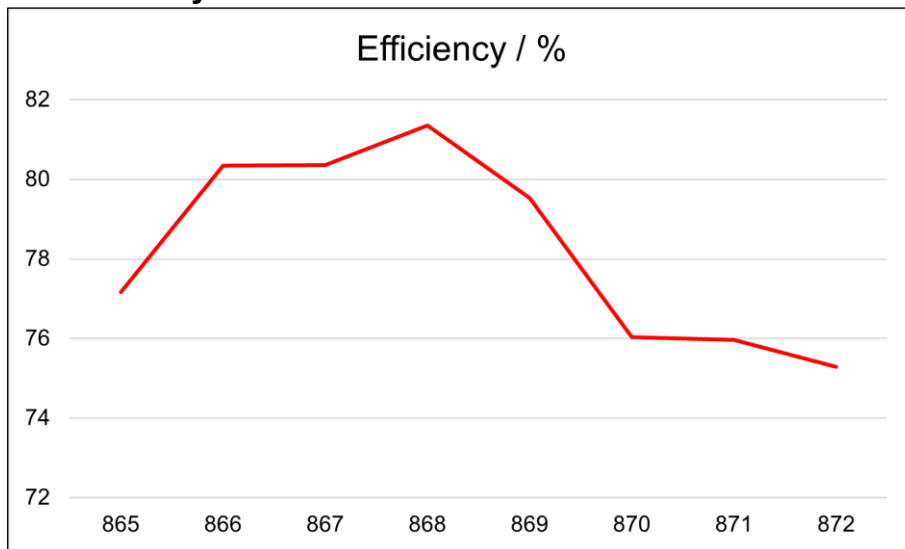
2.2 VSWR



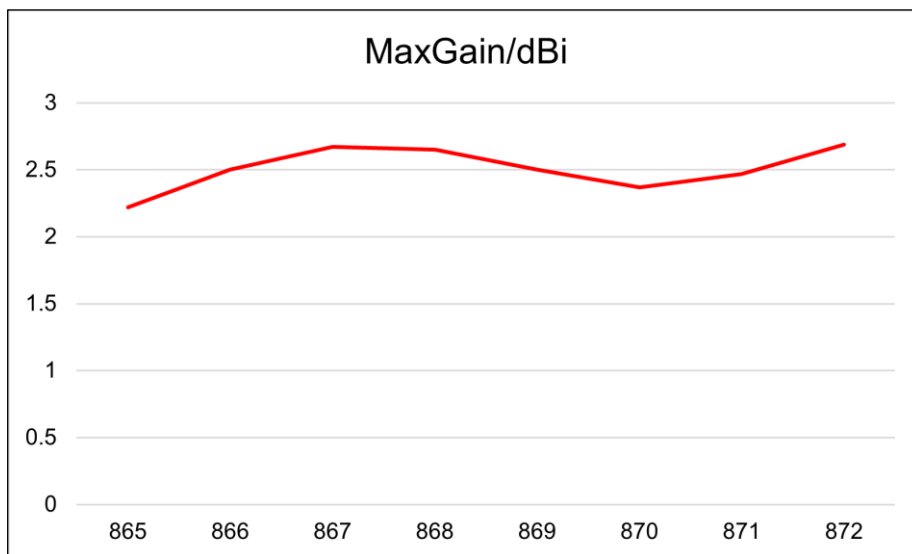
2.3 Return Loss



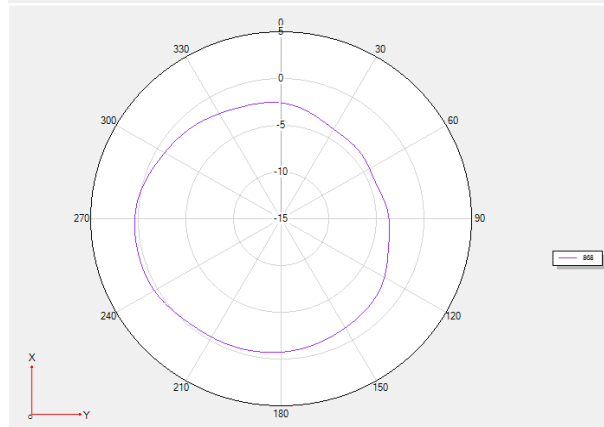
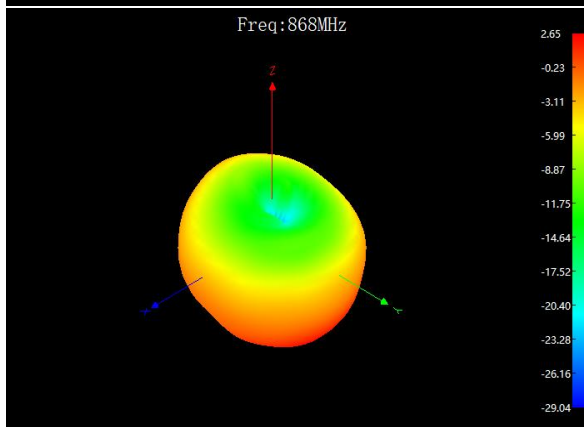
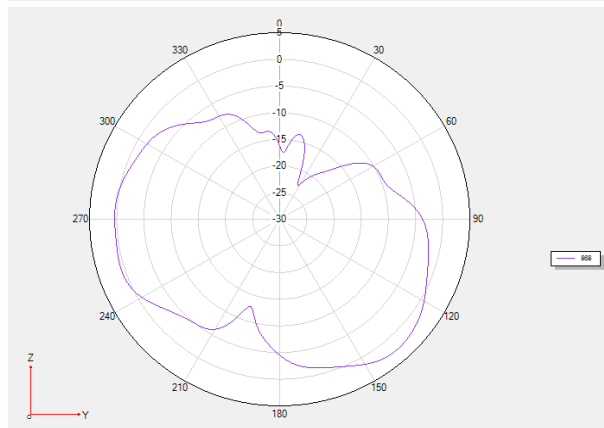
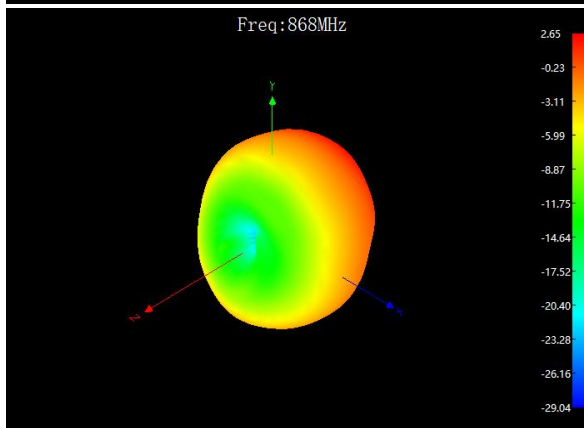
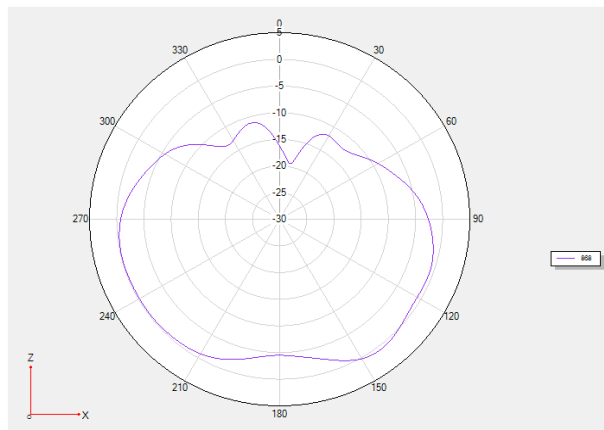
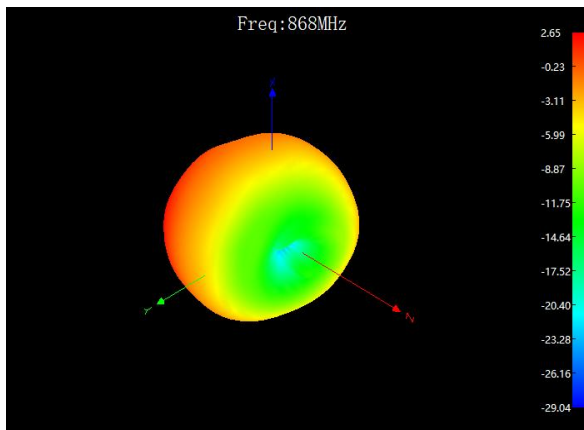
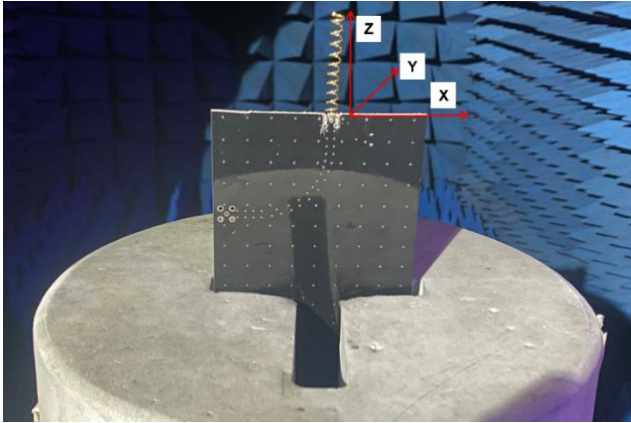
2.4 Efficiency



2.5 Gain

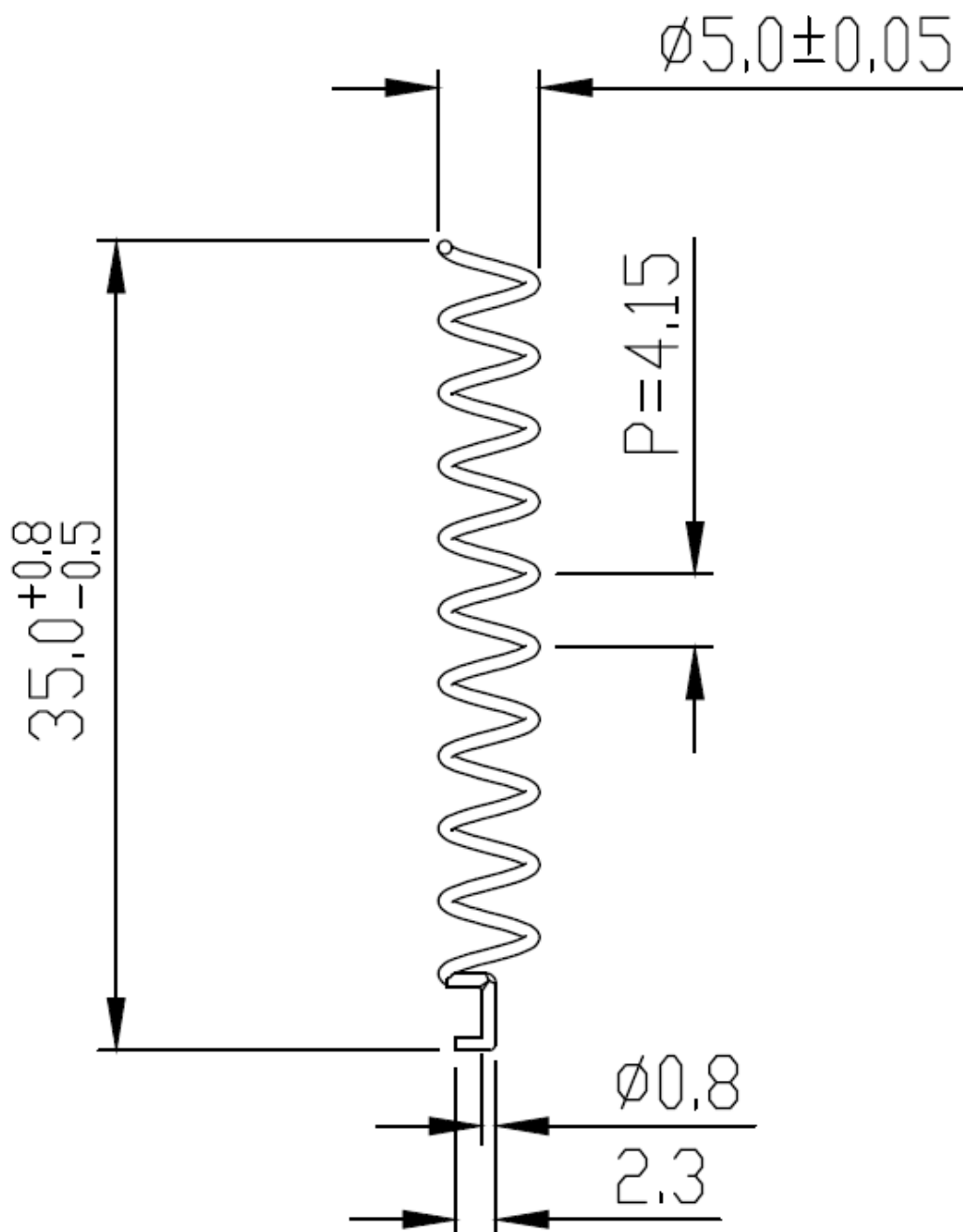


3. Radiation Patterns



4. Antenna Drawing

Unit: mm



Changelog for the datasheet			
Revision	Date	Author:	Notes:
V0	2025-07-25	Kevin LV	Initial Datasheet Release