

SWS008

PN: SW25029IA67

Key features:

- Frequency for 433MHz
- Small size
- Ground Plane Dependent
- Impedance 50 Ohm

Typical applications:

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



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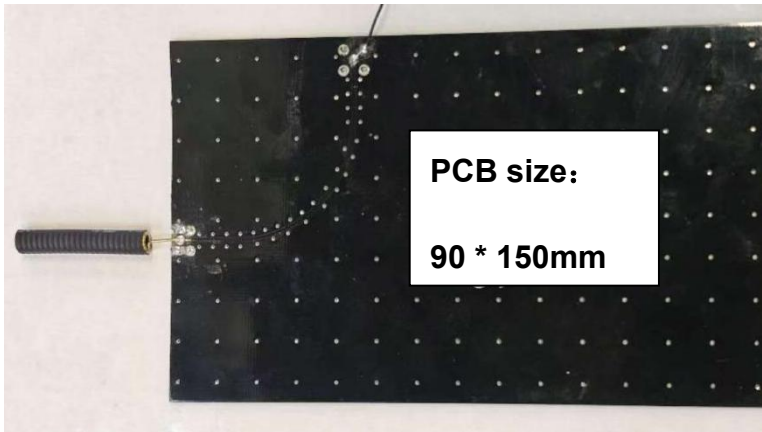
1. Specification

Electrical: Test on GND of 90 * 150mm	
Frequency range (MHz)	433MHz
Peak Gain (dBi)	2.29
Average Gain (dB)	-4.26
VSWR	1.90
Return Loss	-10.14
Efficiency (%)	37.53
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	5

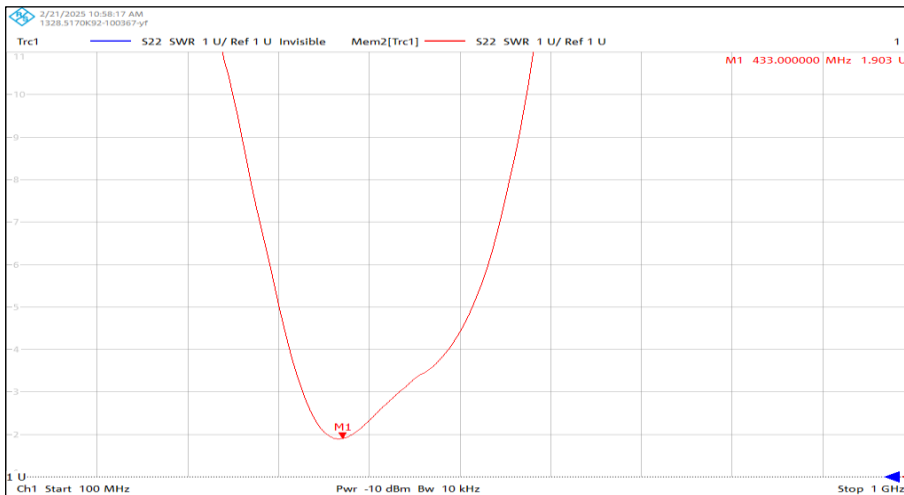
Mechanical	
Mounting Type	Welding
Antenna size(mm)	42.4 X ϕ 5.5
Material	Brass
Environmental	
Operating Temperature (°C)	- 20 °C ~ + 65 °C
Storage Temperature(°C)	-20°C ~ + 65 °C

2. Antenna Characteristics

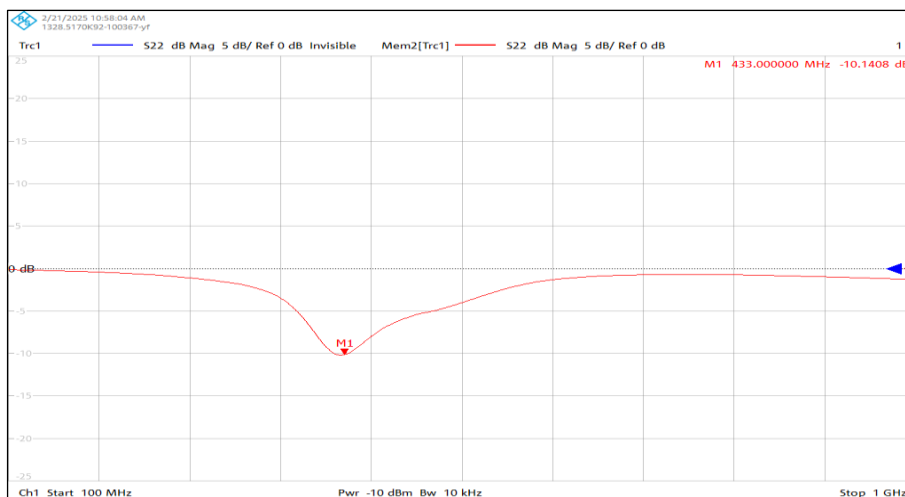
2.1 Test Setup



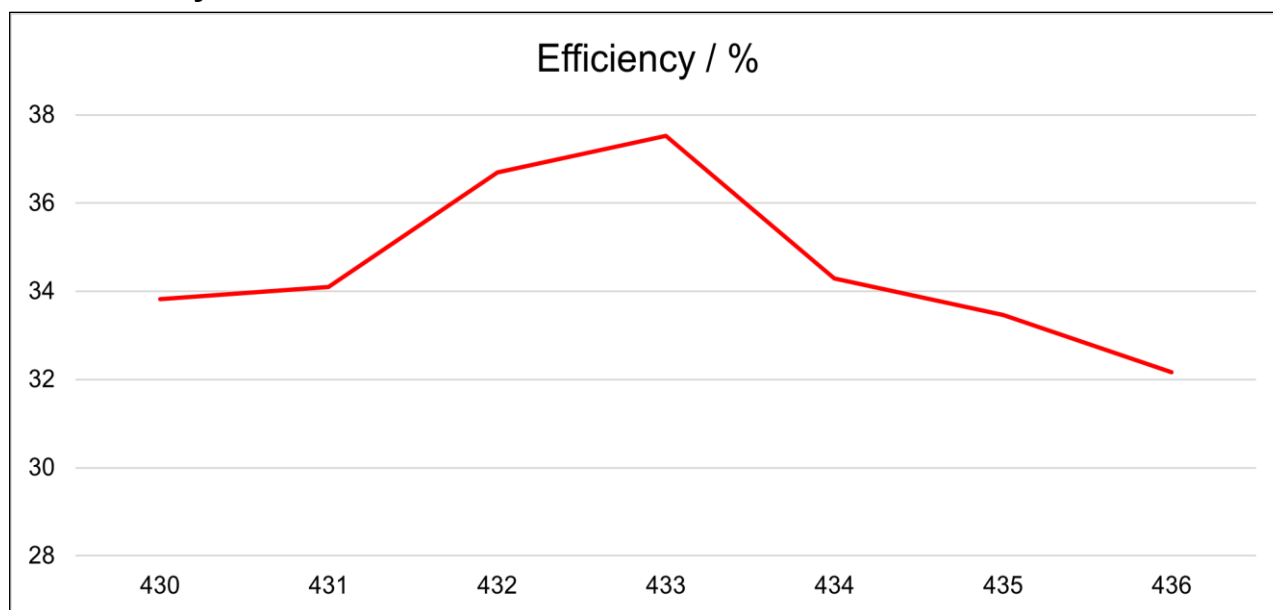
2.2 VSWR



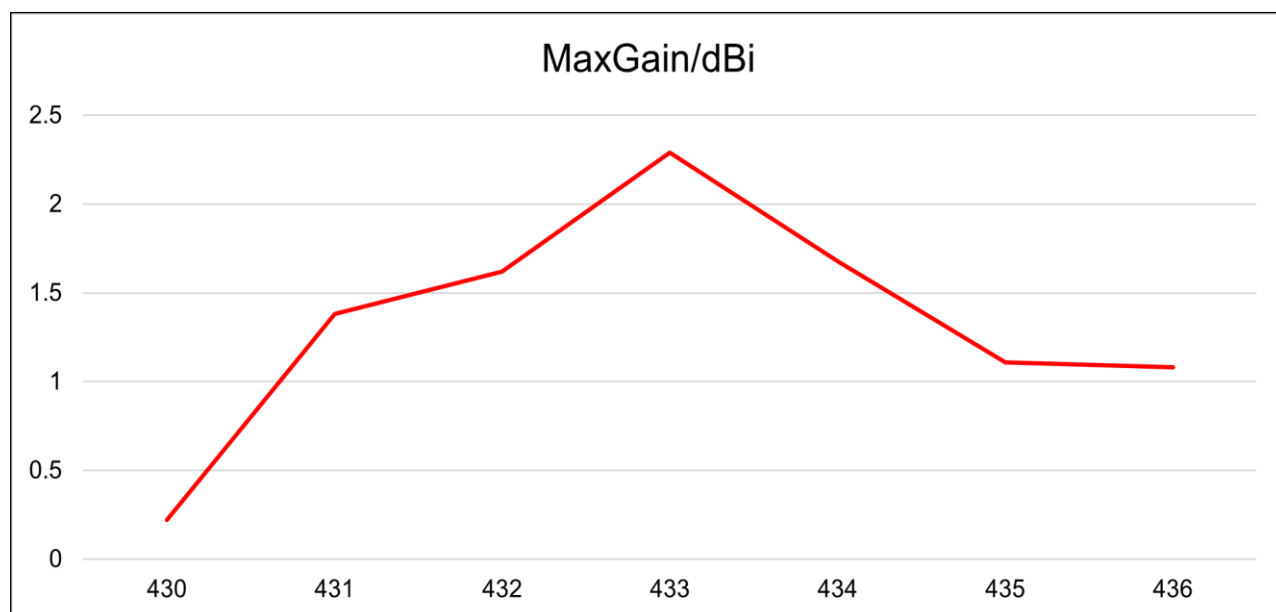
2.3 Return Loss



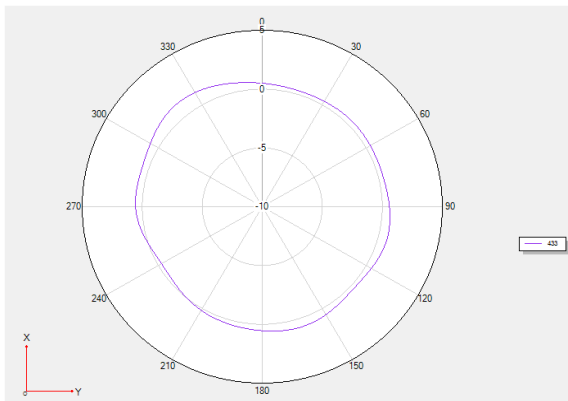
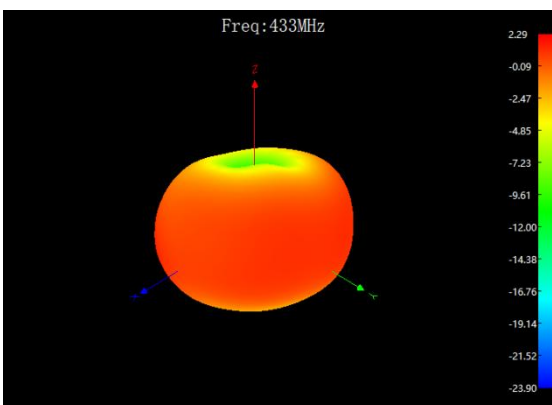
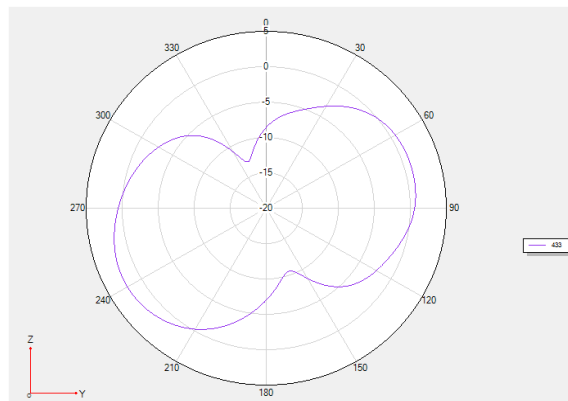
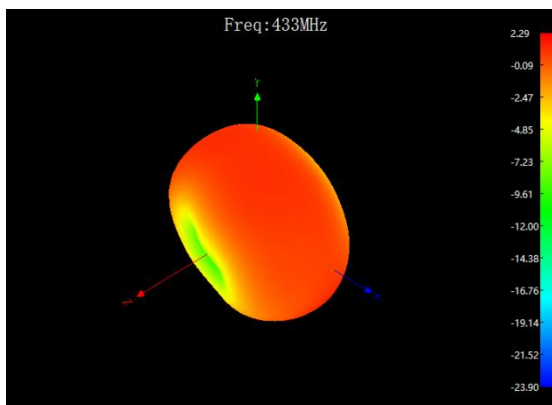
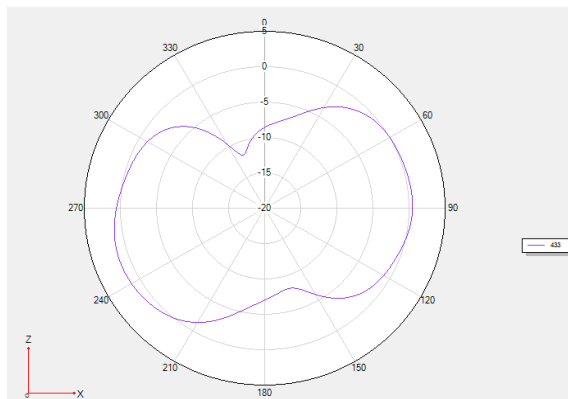
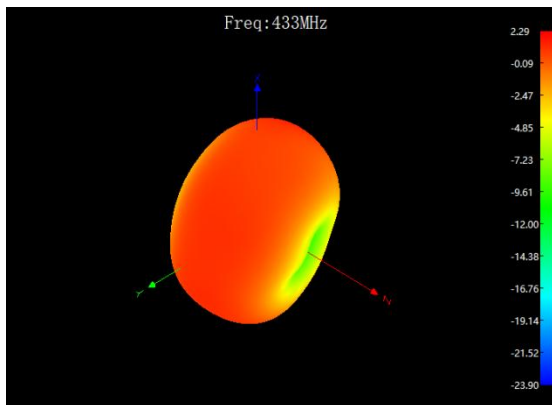
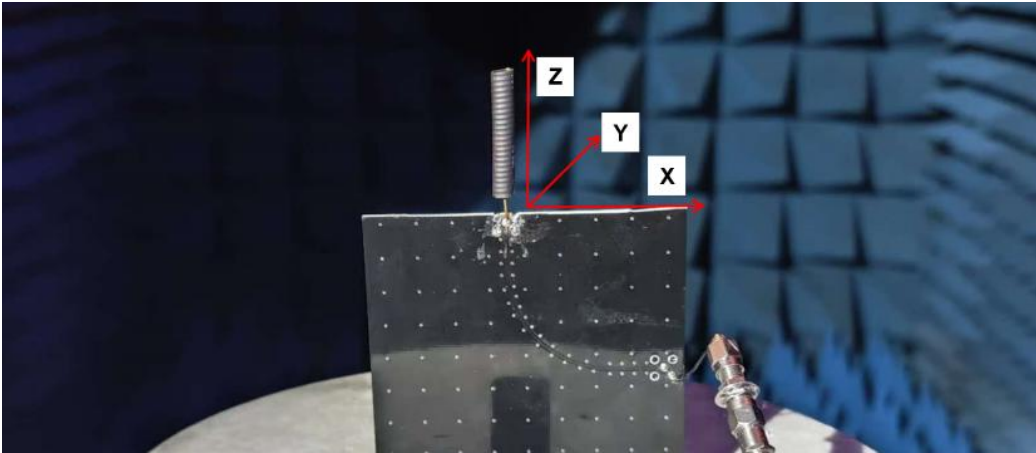
2.4 Efficiency



2.5 Gain

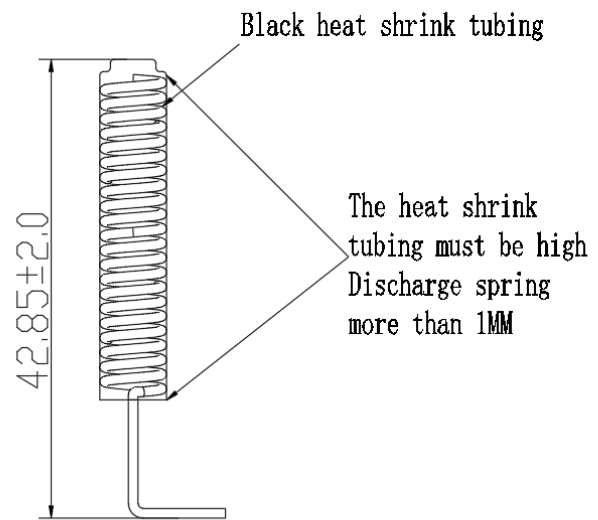
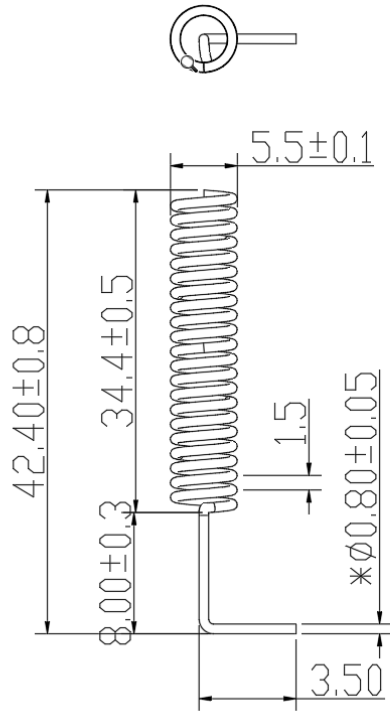


3. Radiation Patterns



4. Antenna Drawing

Unit: mm



Material: Brass; dextrorotation

Changelog for the datasheet			
Revision	Date	Author:	Notes:
V0	2025-02-21	Kevin LV	Initial Datasheet Release
V1	2025-05-29	Kevin LV	Update text formatting, titles, fonts, etc