

SWE078

PN: SW25132EB56



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 45 * 180mm	
Standards	ISM-433MHz
Frequency range (MHz)	433MHz
Peak Gain (dBi)	2.57
Average Gain (dB)	-2.87
VSWR	1.39
Return Loss	-15.76
Efficiency (%)	51.66
Polarization mode	Linear
Radiation pattern	Omni-Directional
Output impedance (Ω)	50
Max. Input Power(W)	25

Mechanical

Mounting Type	Connector Mount
Connector Type	SMA-M
Antenna size(mm)	Φ8.0 x 47.7(H)
Material	ABS
Weight	7g

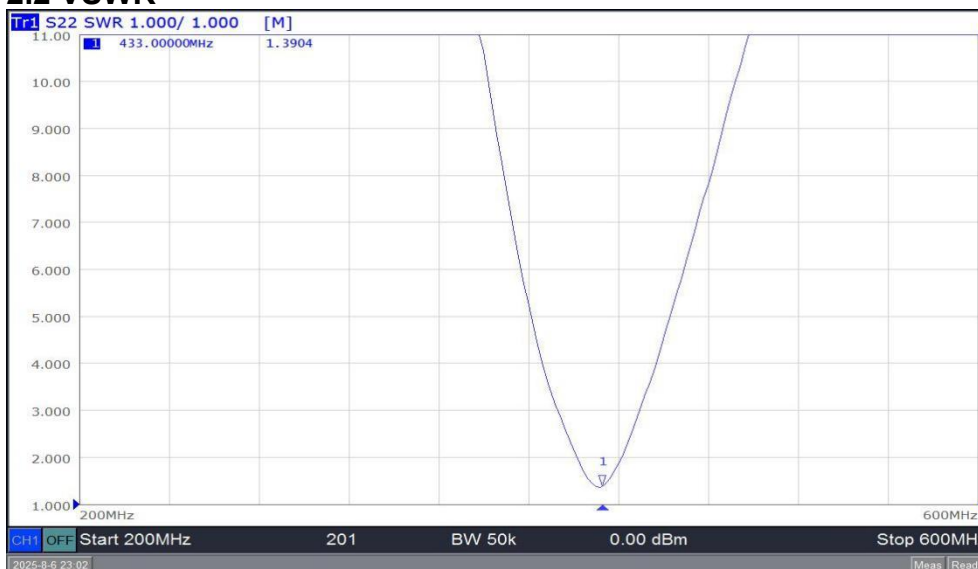
Environmental

Operating Temperature (°C)	- 20 °C ~ + 65 °C
Storage Temperature(°C)	-20°C ~ + 65 °C

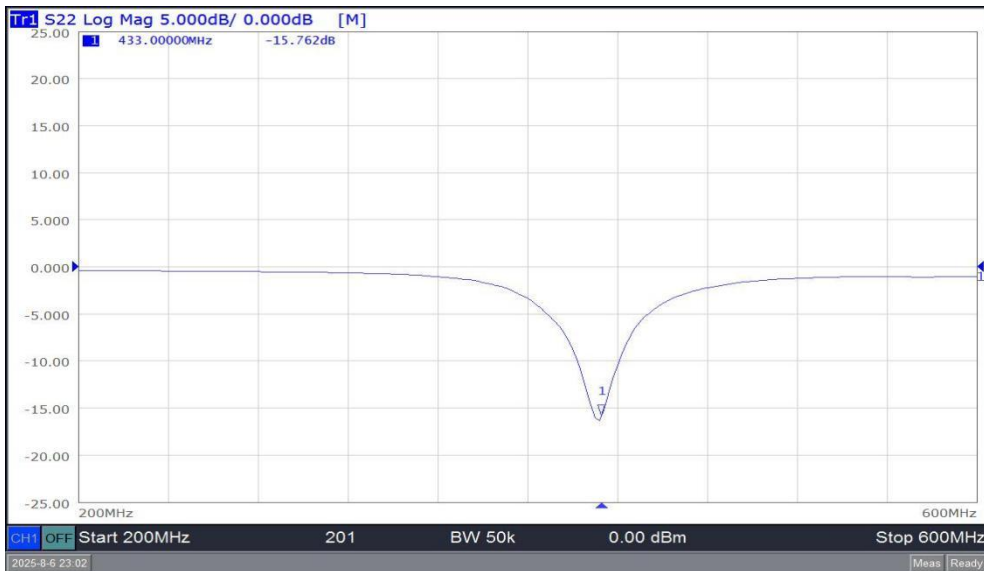
2.1 Test Setup



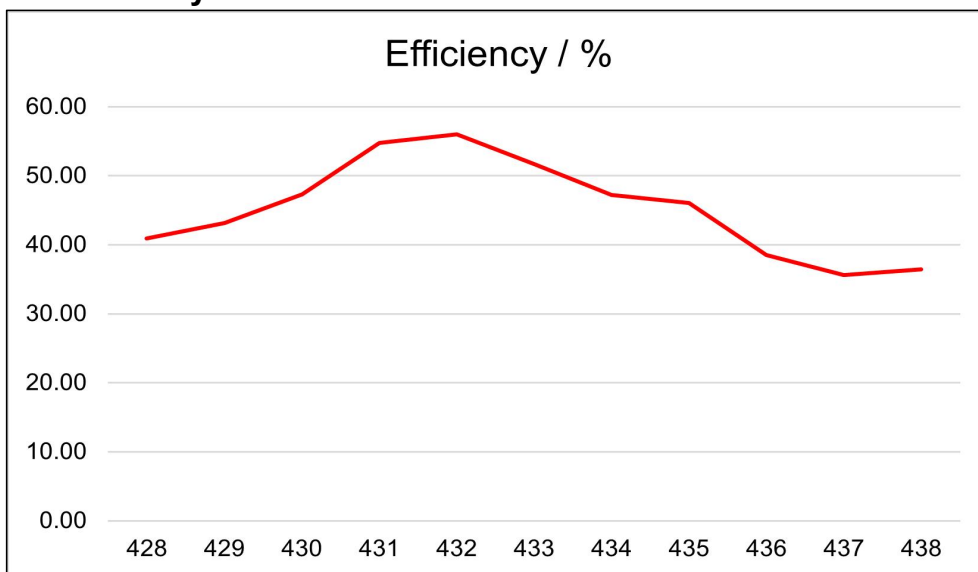
2.2 VSWR



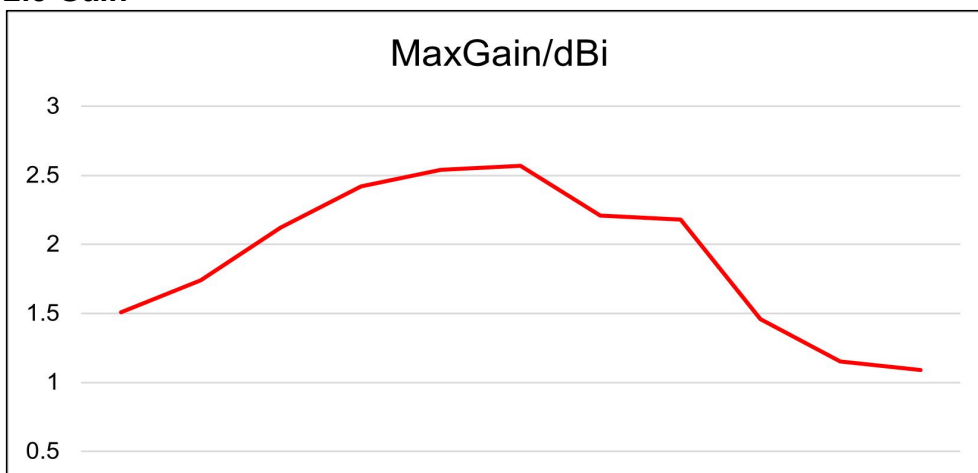
2.3 Return Loss



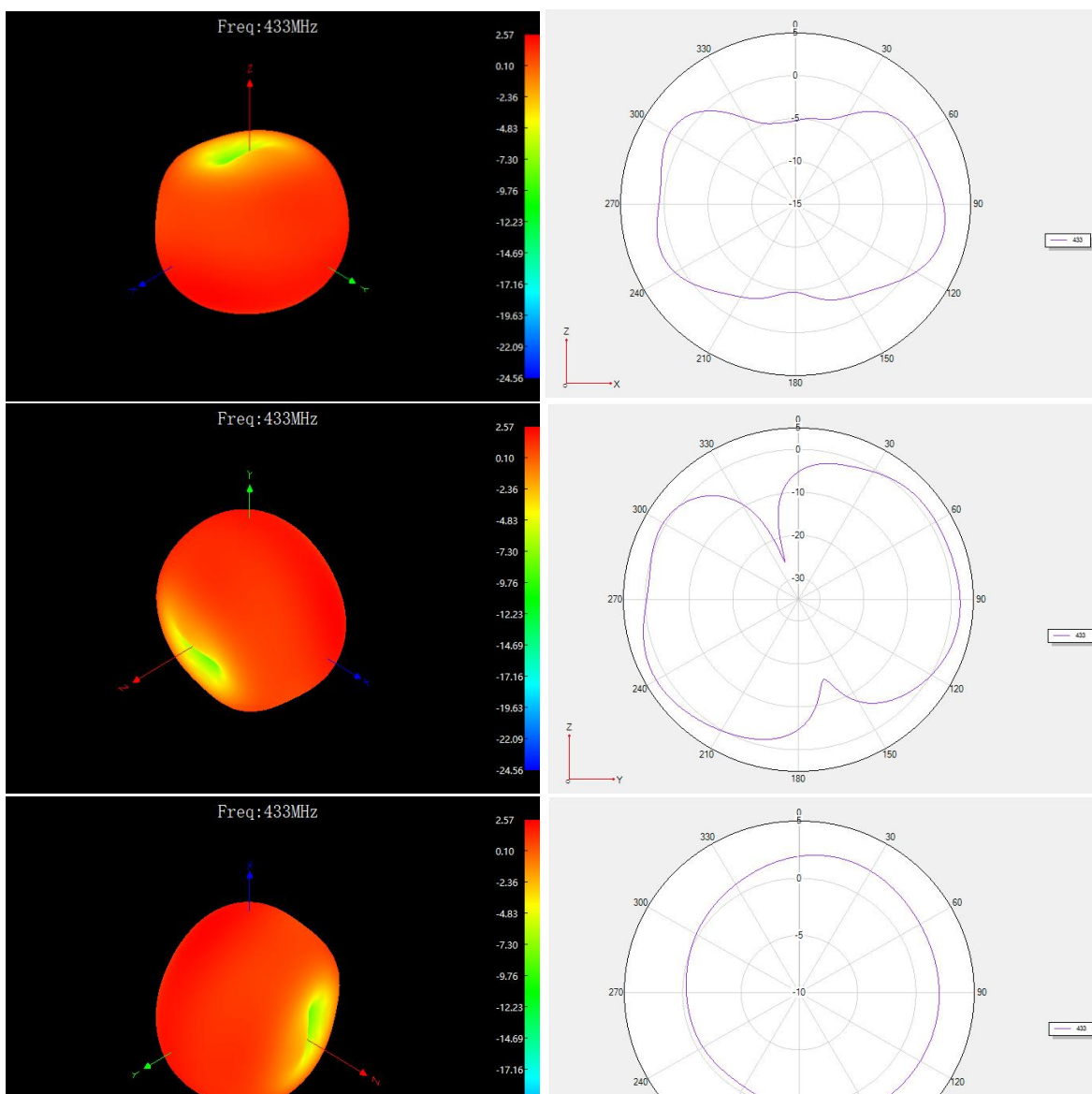
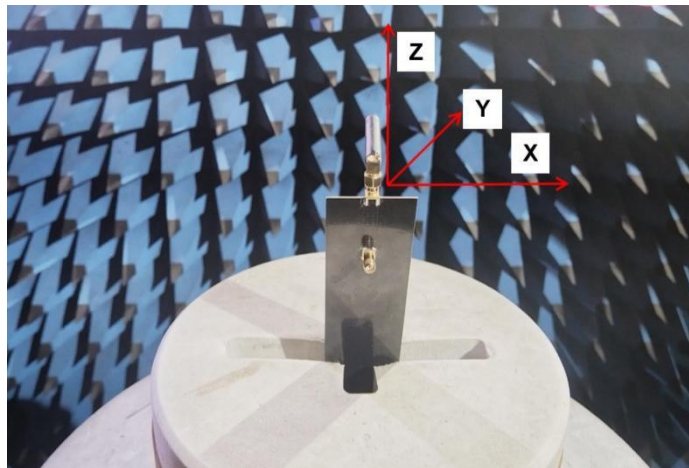
2.4 Efficiency



2.5 Gain

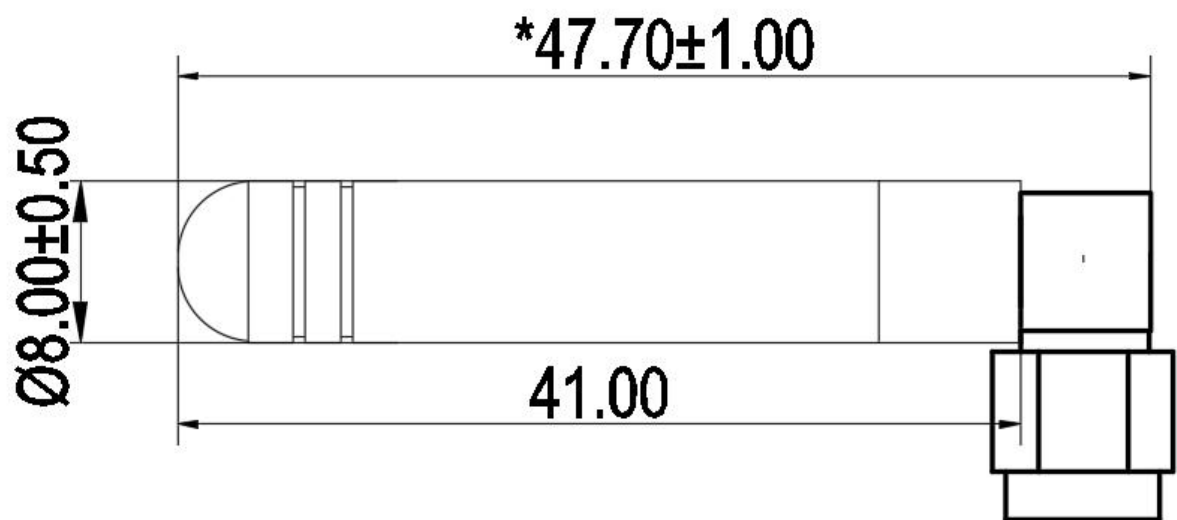


3. Radiation Patterns



4. Antenna Drawing

Unit: mm



Changelog for the datasheet			
Revision	Date	Author:	Notes:
V0	2025-08-07	Kevin LV	Initial Datasheet Release