# OW

## PN:SW25083IA57



## Key features:

- Antenna for 2400~2500MHz
- High Performance
- Ground Plane Independent
- Small Size
- Impedance 50 Ohm

## Typical applications:

- Medical Devices
- Smart Monitoring
- Smart Home
- Others

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# 1. Specifications

| Electrical | |
|---|---|
| Frequency range (MHz) | 2400 ~ 2500 |
| Peak Gain (dBi) | 2.8 ~ 3.5 |
| Average Gain (dB) | -1.0 ~ -0.7 |
| VSWR | < 2.0 |
| Return Loss | < -10.0 |
| Efficiency (%) | 80.0 ~ 85.0 |
| Polarization mode | Linear |
| Radiation pattern | Omni-Directional |
| Output impedance (Ω) | 50 |
| Max. Input Power(W) | 5 |

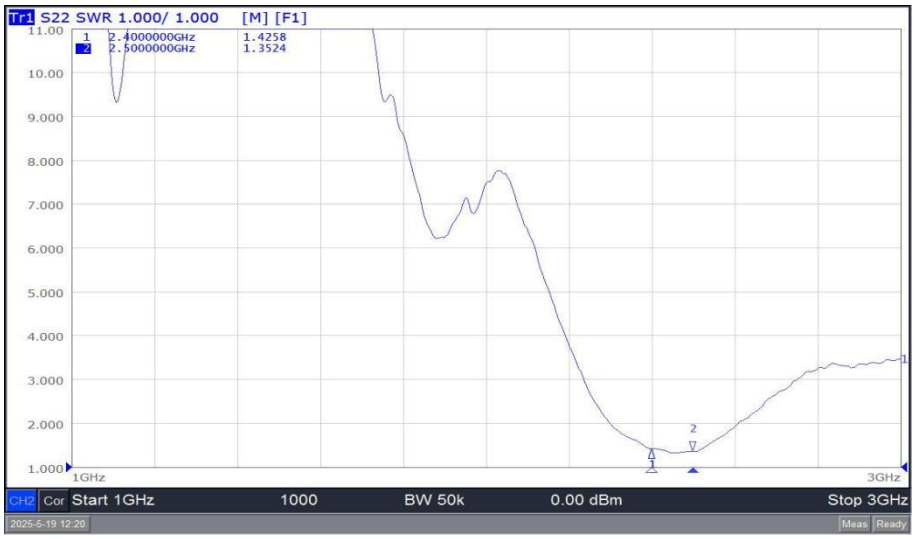
| Mechanical | |
|---|---|
| Mounting Type | Connector |
| Connector Type | IPEX 1 |
| Material | Brass |
| Cable length(mm) | 170mm |
| Weight(g) | 2.8g |
| **Environmental** | |
| Operating Temperature (˚C) | - 40 ˚C ~ + 85 ˚C |
| Storage Temperature(˚C) | - 40 ˚C ~ + 85 ˚C |

# 2. Antenna Characteristics

## 2.1 Test Setup



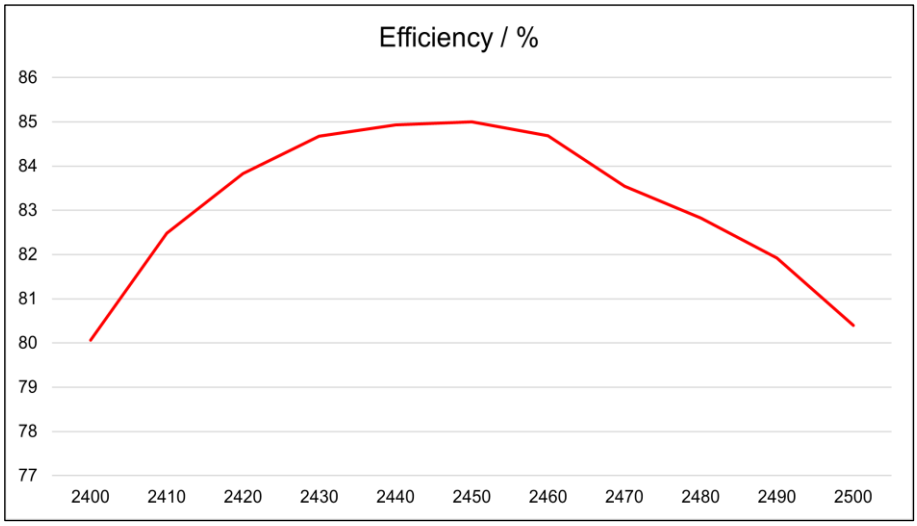
## 2.2 VSWR



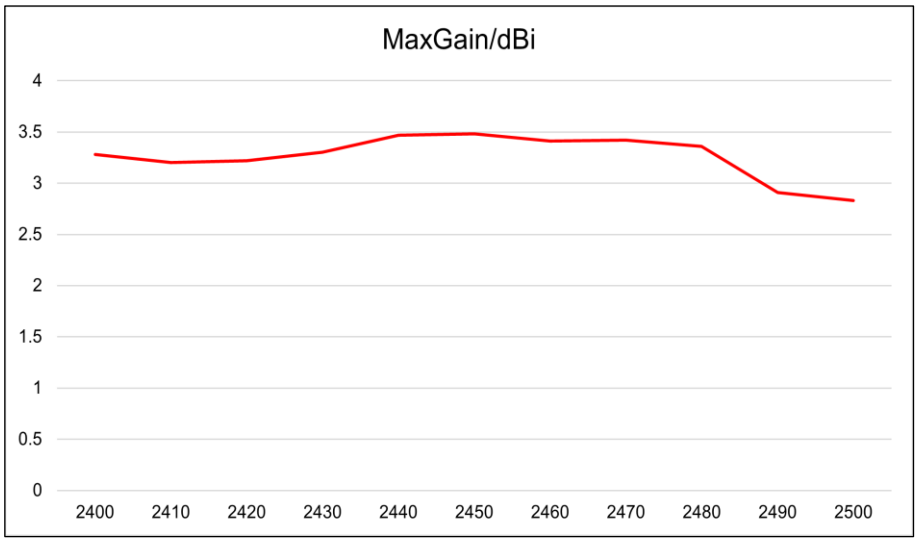

## 2.3 Return Loss



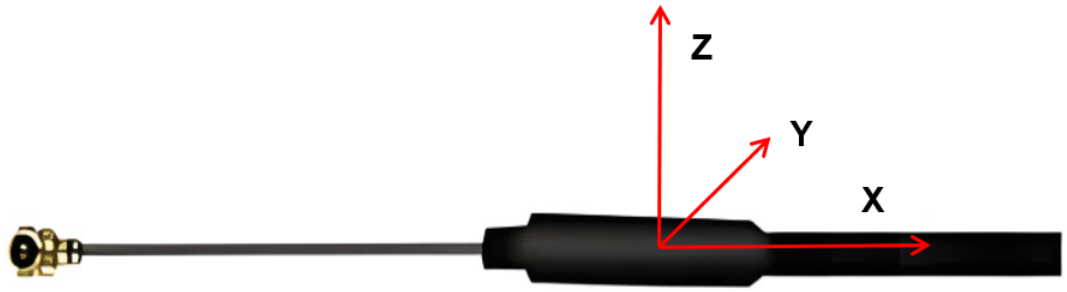
## 2.4 Efficiency

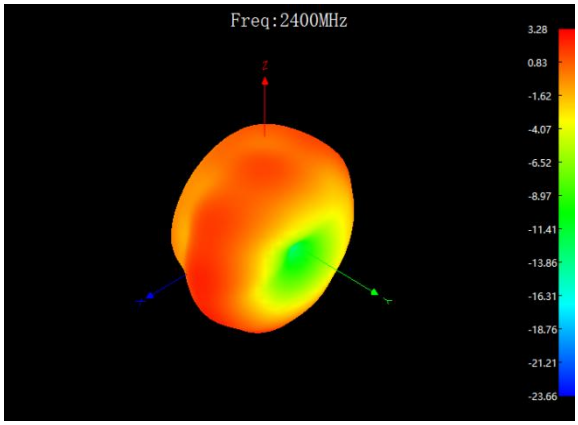


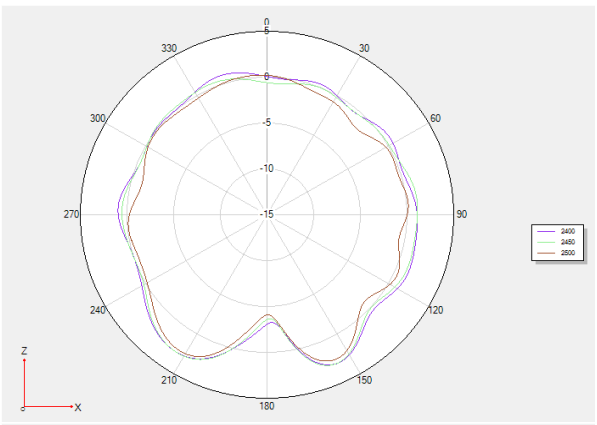

## 2.5 Gain

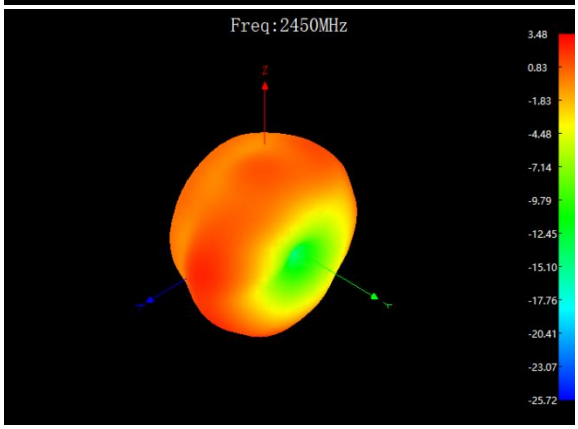


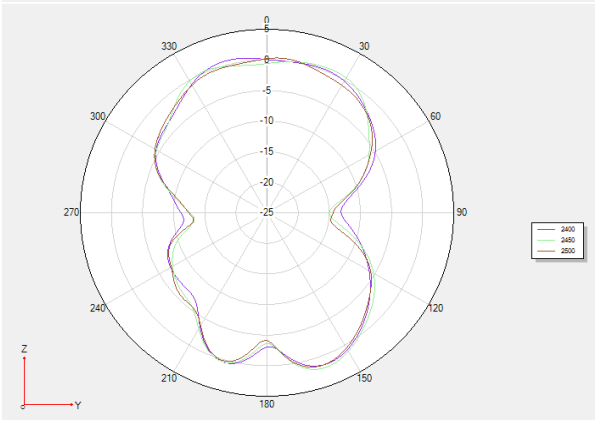
# 3. Radiation Patterns

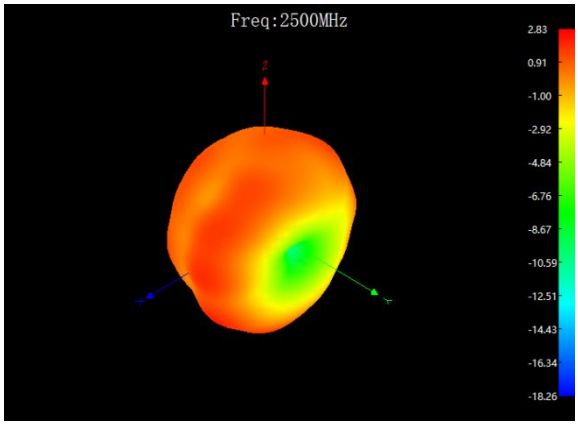


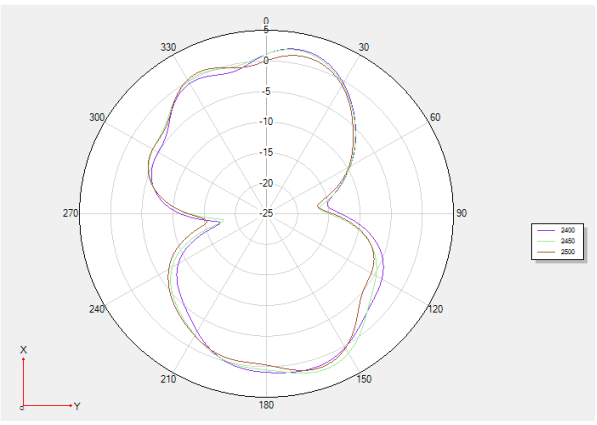



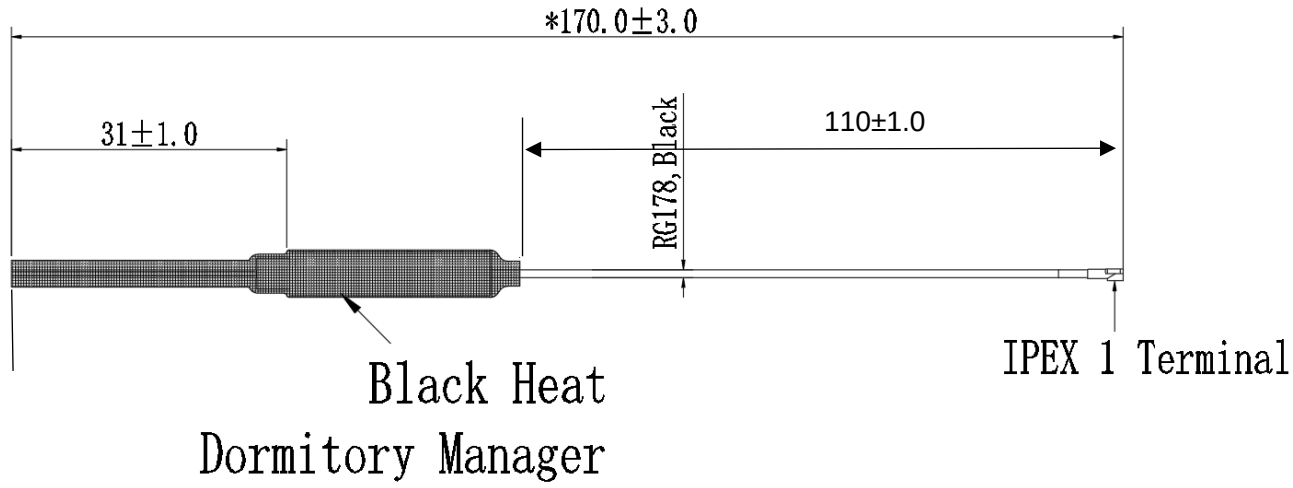



# 4. Antenna Drawings

**(Unit:mm)**



| Changelog for the datasheet | |
|---|---|
| OW | |
| Revision: V0(First Release) | |
| Date: | 2025-05-19 |
| Notes: | Initial Datasheet Release |
| Author: | Kevin |