



**SUNNYWAY**

**SWE020**

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## 1. Electrical Specifications

|                               |                  |
|-------------------------------|------------------|
| Standards                     | WiFi/BT          |
| Frequency range (MHz)         | 2400~2500MHz     |
| Peak Gain (dBi)               | 1.7~3.7dBi       |
| Average Gain (dB)             | -2.4~-4.1dB      |
| VSWR                          | <1.6             |
| Return Loss                   | <-13.0           |
| Efficiency (%)                | 39~57%           |
| Polarization mode             | Linear           |
| Radiation pattern             | Omni-Directional |
| Output impedance ( $\Omega$ ) | 50               |
| Max. Input Power(W)           | 25               |

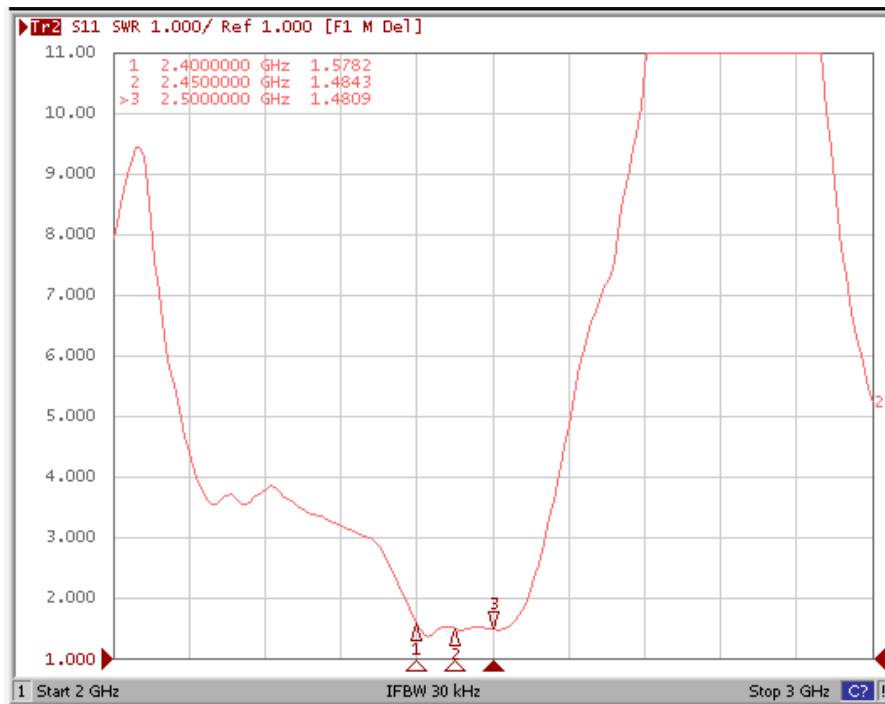
## 2. Mechanical and Environmental Specification

|                            |                      |
|----------------------------|----------------------|
| Mounting Type              | Connector Mount      |
| Connector Type             | SMA                  |
| Antenna size(mm)           | 47.3mm* $\phi$ 8.5mm |
| Material                   | ABS                  |
| Operating Temperature (°C) | - 40 °C ~ + 85 °C    |
| Storage Temperature(°C)    | - 40 °C ~ + 85 °C    |

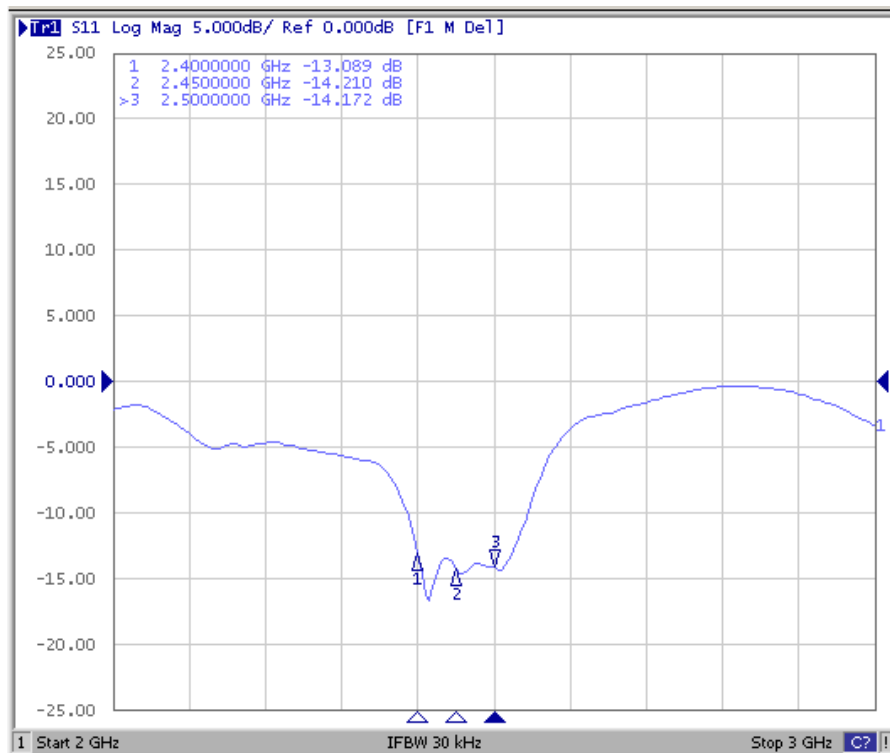


### 3. Antenna parameters

| FRE (MHz)        | 2400   | 2450   | 2500   |
|------------------|--------|--------|--------|
| VSWR             | 1.57   | 1.48   | 1.48   |
| Return Loss      | -13.08 | -14.21 | -14.17 |
| Eff (%)          | 38.29  | 56.12  | 56.39  |
| Average Gain(dB) | -4.17  | -2.51  | -2.49  |



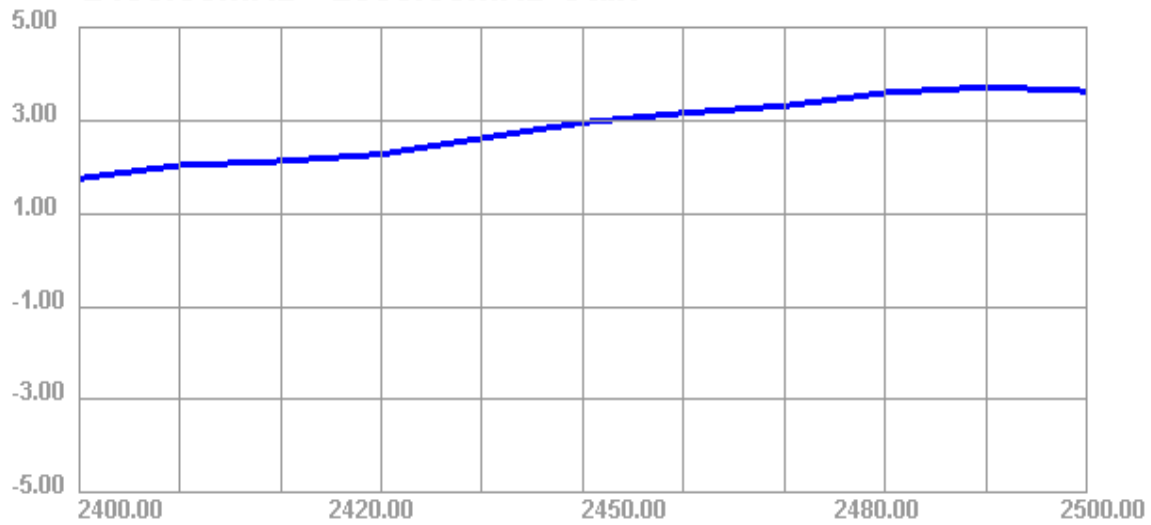
## VSWR



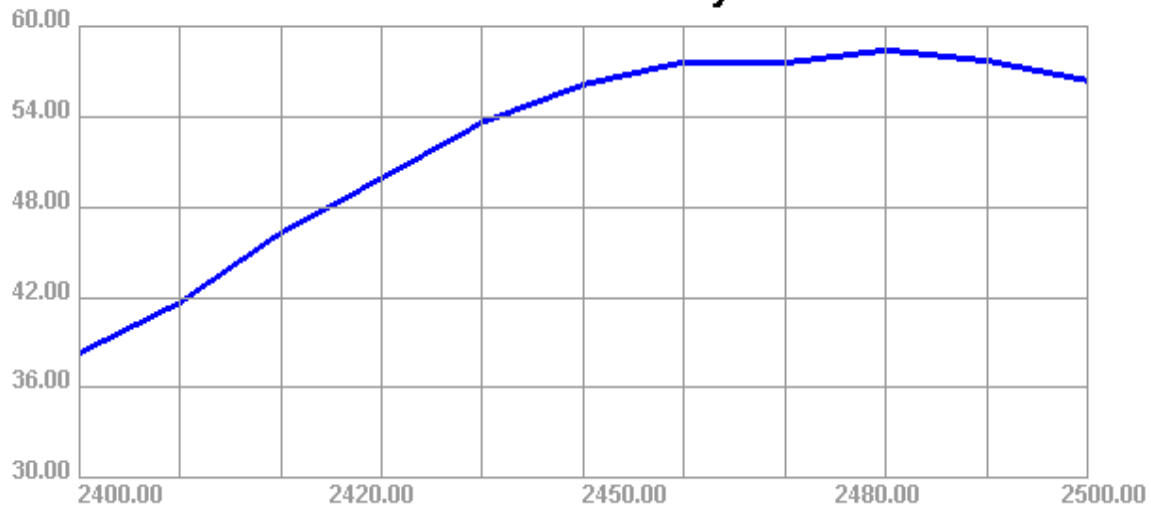
## Return Loss



### 2400.00MHz - 2500.00MHz Gain

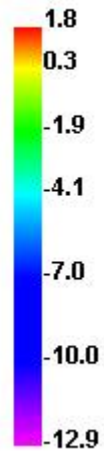
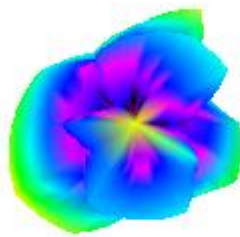


### 2400.00MHz - 2500.00MHz Efficiency

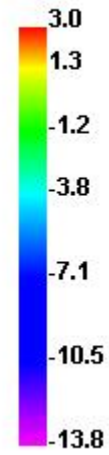
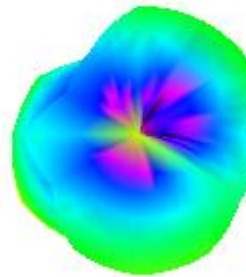


## Directional pattern

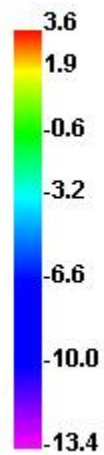
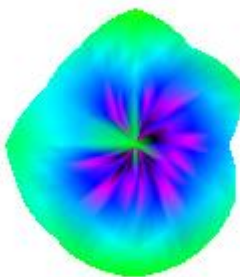
**2400.000MHz**



**2450.000MHz**

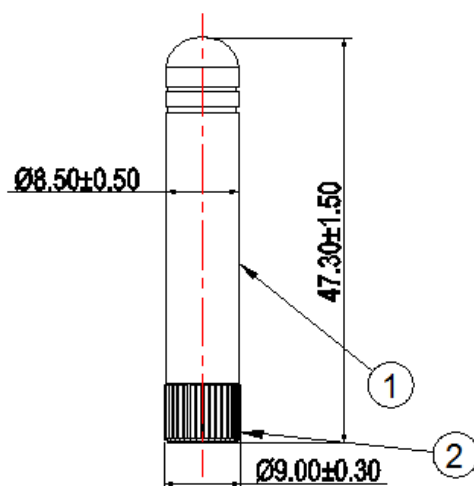


**2500.000MHz**





## 4. Antenna Drawings



|        |                |               |       |          |
|--------|----------------|---------------|-------|----------|
| 2      | SMA            | SMA-J         | white | 1        |
| 1      | noumenon       | ABS           | black | 1        |
| Series | Component name | Specification | Color | Quantity |