



ANT Communication Technology (Shenzhen) Co., LTD.

## Antenna Datasheet

Customer name : Xiao Xun

Project name : AW1010

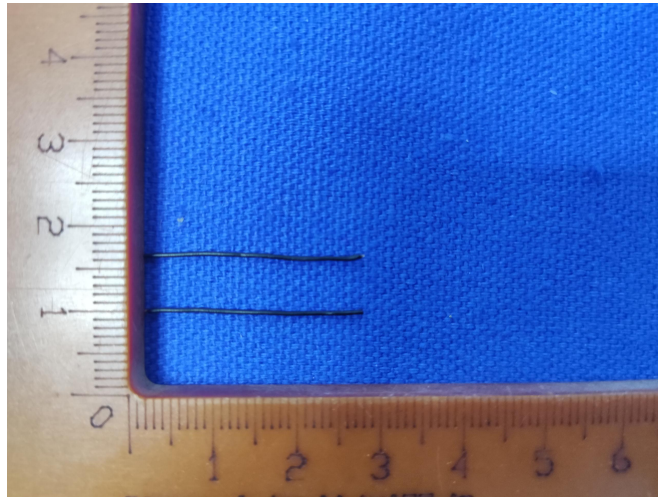
Datasheet version : RA

Material specifications : wire

Manufacturer : ZhenShi Information Technology (ShangHai) Co.,Ltd

| ANT Counter-signature bar |               |                       |          |       |
|---------------------------|---------------|-----------------------|----------|-------|
| R&D                       | ME: Li zhi en | Audit: Xiong ming hua | approve: | Date: |
|                           | RF: Wu bo     | Audit: Liu feng       |          |       |

## 一、Antenna picture



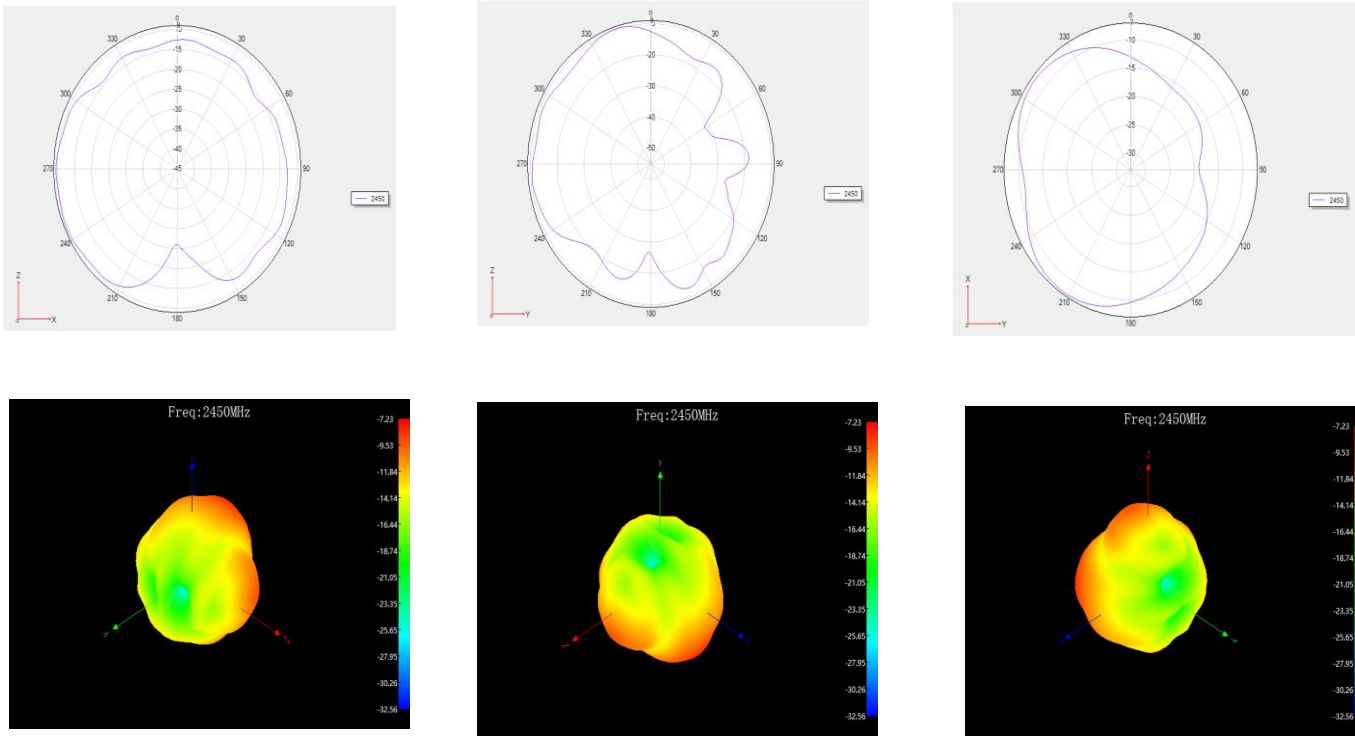
L:28mm

## 二、Bluetooth (BDR/EDR) ANT

### (1) Gain & Efficiency & Directional diagram (Wear arms)

| BLE(2.4G) |          |        |          |
|-----------|----------|--------|----------|
| Freq/ MHz | Effi /db | Freq/% | Gain/dBi |
| 2400      | -14.36   | 3.66   | -8.88    |
| 2410      | -13.69   | 4.28   | -7.42    |
| 2420      | -13.99   | 3.99   | -8.45    |
| 2430      | -13.77   | 4.2    | -7.55    |
| 2440      | -14.37   | 3.66   | -8.76    |
| 2450      | -13.32   | 4.66   | -7.23    |
| 2460      | -13.78   | 4.19   | -8.03    |
| 2470      | -13.58   | 4.39   | -7.44    |
| 2480      | -13.2    | 4.79   | -7.36    |
| 2490      | -12.62   | 5.47   | -6.64    |
| 2500      | -13.05   | 4.95   | -7.41    |

2D/3D Directional diagram



(2)、Antenna parameters

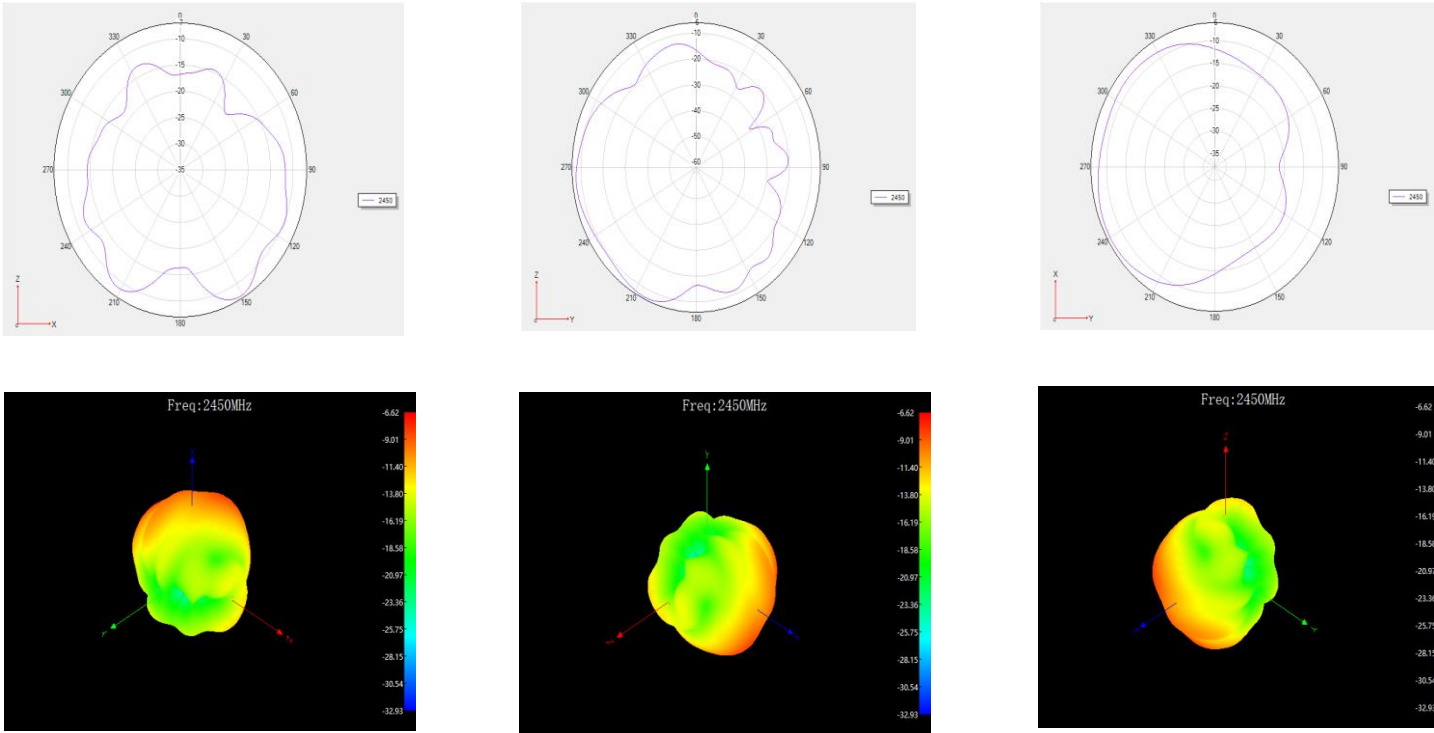
| Technical parameters   |              |
|------------------------|--------------|
| Frequency range        | 2400-2500MHZ |
| Enter The impedance    | 50 Ω         |
| VSWR                   | ≤2.5         |
| Max gain               | -6.64dBi     |
| Environment parameters |              |
| Operating temperature  | -45℃--+85℃   |
| Storage temperature    | -45℃--+85℃   |

## 三、Bluetooth (BT LE/BT 2LE) ANT

## (1)Gain &amp; Efficiency &amp; Directional diagram (Wear arms)

| BLE(2.4G) |          |        |          |
|-----------|----------|--------|----------|
| Freq/ MHz | Effi /db | Freq/% | Gain/dBi |
| 2400      | -13.68   | 4.29   | -7.29    |
| 2410      | -13.2    | 4.79   | -6.74    |
| 2420      | -13.35   | 4.62   | -6.95    |
| 2430      | -13.4    | 4.57   | -6.94    |
| 2440      | -13.78   | 4.19   | -7.65    |
| 2450      | -12.9    | 5.13   | -6.62    |
| 2460      | -13.3    | 4.68   | -7.41    |
| 2470      | -13.14   | 4.85   | -6.86    |
| 2480      | -12.9    | 5.13   | -6.89    |
| 2490      | -12.41   | 5.74   | -6.05    |
| 2500      | -12.99   | 5.02   | -7.03    |

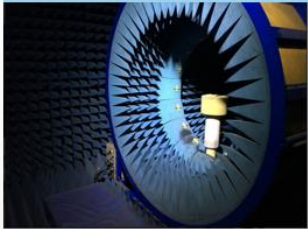
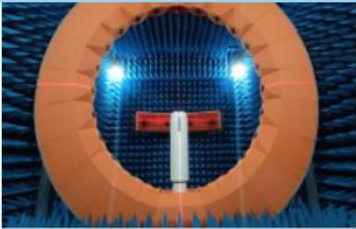
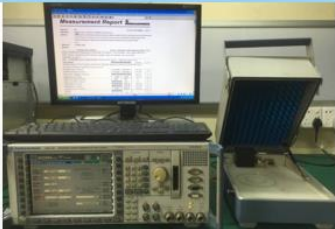
2D/3D Directional diagram



2)、Antenna parameters

| Technical parameters   |              |
|------------------------|--------------|
| Frequency range        | 2400-2500MHZ |
| Enter The impedance    | 50 $\Omega$  |
| VSWR                   | $\leq 2.5$   |
| Max gain               | -6.05dBi     |
| Environment parameters |              |
| Operating temperature  | -45℃--+85℃   |
| Storage temperature    | -45℃--+85℃   |

四、Test Equipment

| Test Environment and Equipment                                                   |                                                                                   |                                                                                    |                                                                                     |                                                                                     |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |                                                                                     |
| SATIMO-16                                                                        | XH-24-5G                                                                          | CUM GO                                                                             | CMU RUN                                                                             |                                                                                     |
|  |  |   |   |  |
| Agilent 8960                                                                     | R&S CMW500                                                                        | Anritsu MT8820C                                                                    | Agilent 5071C                                                                       | StarPoint SP9500                                                                    |
| Test system                                                                      | Testing environment                                                               | Active                                                                             |                                                                                     | Passive                                                                             |
| SATIMO-16                                                                        | Temperature 22℃±3℃<br>Humidity 50%±15%                                            | 2G/3G/4G/5G<br>GPS/WIFI/BT                                                         |                                                                                     | 400M-8.5G                                                                           |
| XH-24                                                                            |                                                                                   |                                                                                    |                                                                                     |                                                                                     |