

## Antenna specification

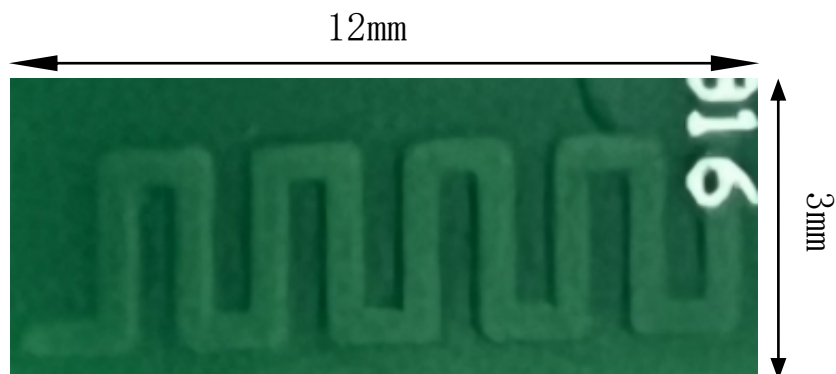
|                  |                                                                         |
|------------------|-------------------------------------------------------------------------|
| •Company Name    | <i>GUANGZHOU ONLENS E ELECTRONIC SCIENCE &amp; TECHNOLOGY CO., LTD.</i> |
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## APPlications

※Bluetooth Home RF

※ISM band 2.4GHz applications

### 1. Dimensions



### 2. Specifications

| number | Item                      | Specifications     |
|--------|---------------------------|--------------------|
| 1      | Working Central Frequency | 2441 MHz           |
| 2      | Band Width                | (2402-2480)MHz     |
| 3      | Gain                      | 0dBi               |
| 4      | VSWR                      | ≤2.0               |
| 5      | Antenna type              | PCB antenna        |
| 6      | Azimuth Beam width        | Omni - directional |
| 7      | Impedance                 | 50ohm              |
| 8      | Modulation mode           | GFSK               |

### 3. simulation parameter

#### ① VSWR

Mkr1: 2397MHz 1.47    Mkr2: 2450MHz 1.51    Mkr3: 2482 MHz 1.59



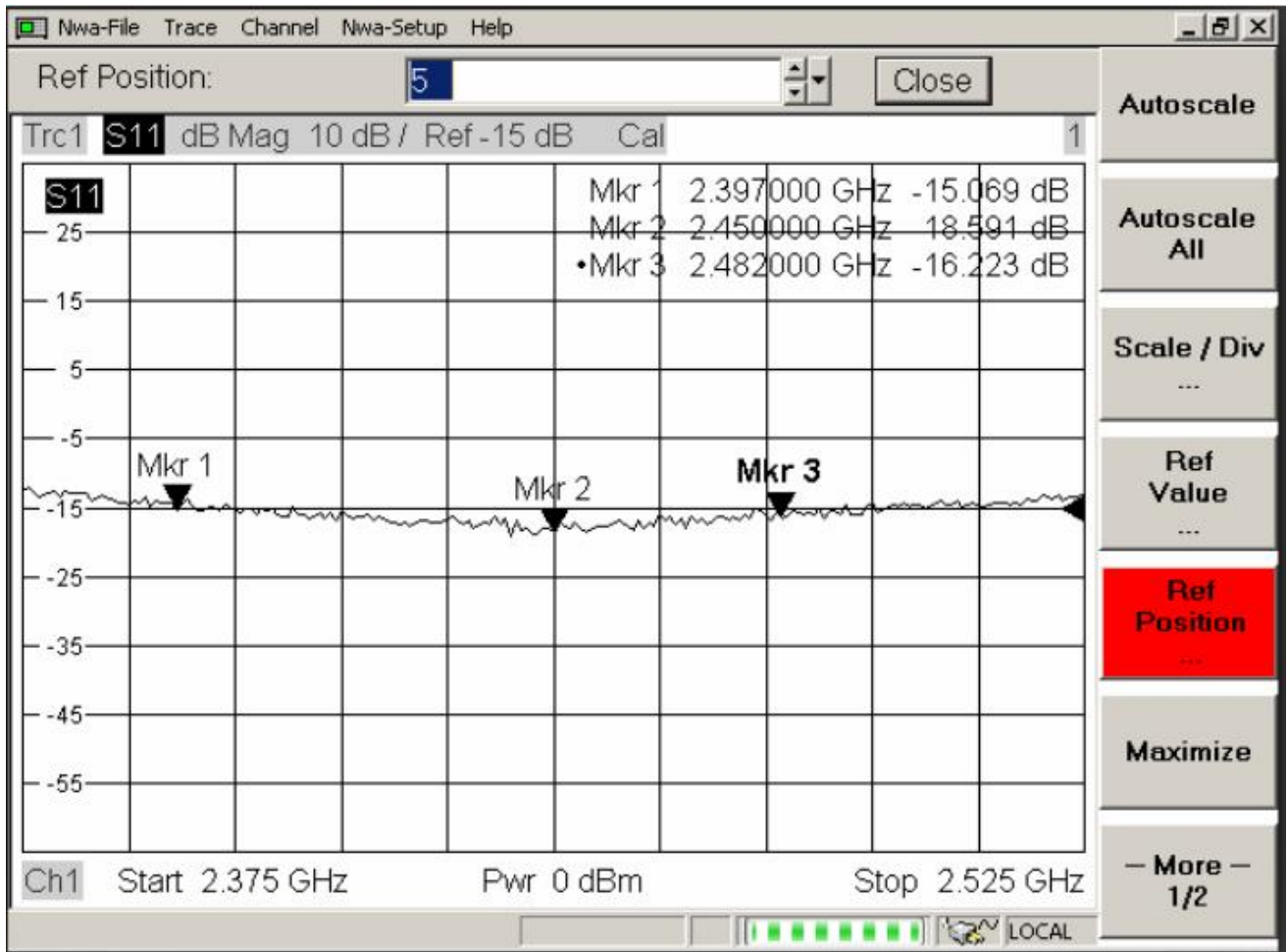
## ②Smith Char

Mkr1: 2397MHz 73.4      Mkr2: 2450MHz 62.7      Mkr3: 2482MHz 66.8



### ③Return Loss

Mkr1: 2397MHz -15 Mkr2: 2450MHz -18 Mkr3: 2482 MHz -16



#### ④Smith Char

Mkr1: 2400MHz 1.234      Mkr2: 2500MHz 1.051Mkr3: 2600MHz 1.322



### ⑤Return Loss

Mkr1: 2400MHz -19.59    Mkr2: 2450MHz -27.70Mkr3: 2500MHz -31.97    Mkr4:  
2550MHz -21.83



## ⑥Phase

Mkr1: 2400MHz -54.89    Mkr2: 2500MHz -82.03    Mkr3: 2600MHz -102.6



#### 4. Radiation Patterns

XY-plane ———  
XZ-plane ———  
YZ-plane ———



- 3DRadiation pattern

