



ShenZhen City Flink Wi Technology CO.,LTD.

SPECIFICATION FOR APPROVED

CUSTOMER: \_\_\_\_\_  
PRODUCTS: \_\_\_\_\_ PCB Antenna \_\_\_\_\_  
PART NO: \_\_\_\_\_  
Spec. : \_\_\_\_\_  
Data: \_\_\_\_\_ 2024. 01. 10 \_\_\_\_\_

| SUPPLIER    |            |             |
|-------------|------------|-------------|
| PREPARED BY | CHECKED BY | APPROVED BY |
|             |            |             |

| CUSTOMER    |            |             |
|-------------|------------|-------------|
| ACCEPTED BY | CHECKED BY | APPROVED BY |
|             |            |             |

REMARK:Please send us one(or copy)of this approval with stamp after accepting,other copies filed by the customer.

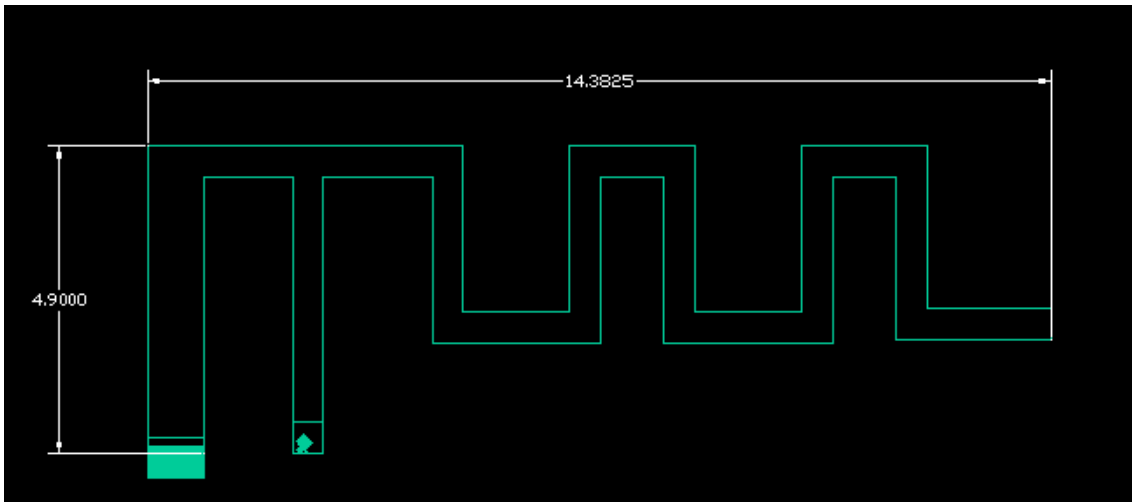
ADDRESS: 606 Huachuangda Business Building, Yu'an 1st Road, Bao'an 45 District, Shenzhen

Tel: 18820170917

Fax: 0755-26976277

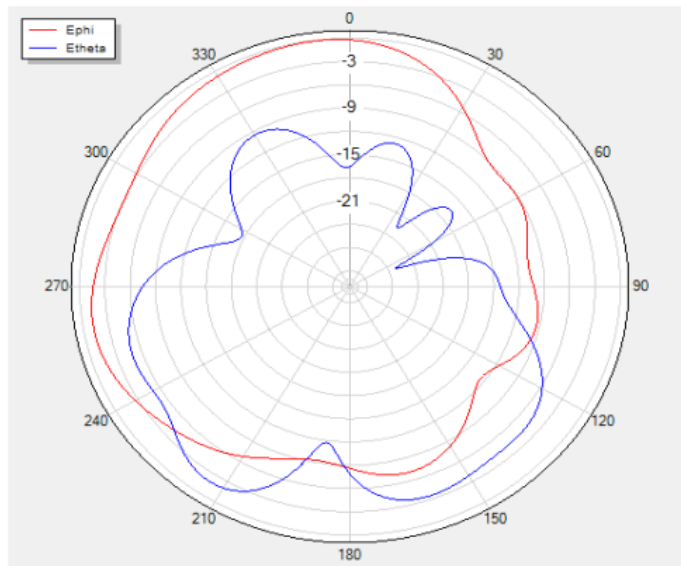
|                 |   |
|-----------------|---|
| Antenna plate   | PCB Antenna                                 |
| Model name      | W7  |
| Antenna gain    | <b>1.36dBi</b>                              |
| Manufacturers   | Guangzhou CHS Electronic Technology Co.,Ltd |
| Frequency range | 2. 4GHZ-2. 5GHZ                             |
| Trademark       | CHS   |

1. antenna dimension (mm)



c, antenna direction

## Phi=90 freq=2450MHz



## 2, antenna specification

### Bluetooth mechanical specification

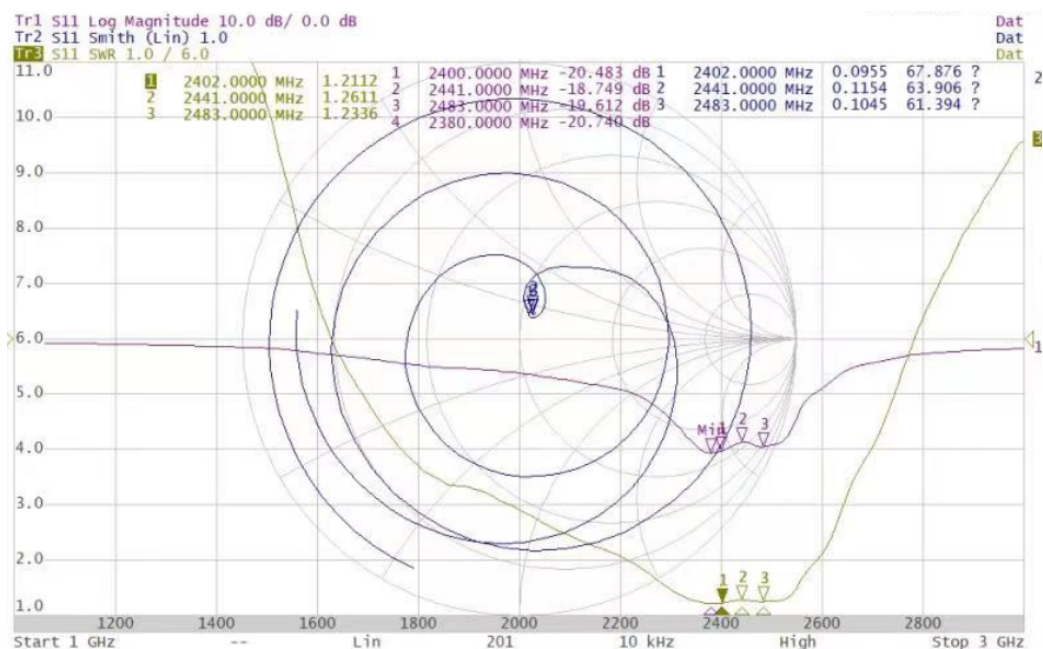
#### **2400-2500MHZ**

| <b>Electrical specifications</b>             |  |
|--|--|
| Frequency range (MHz)                        | 2400-2500                                      |
| Gain (dBi)                                   | 1.36 dBi                                       |
| Impedance ( $\Omega$ )                       | 50   |
| VSWR   | $\leq 2.0$ (Center frequency)                  |
| <b>Mechanical specifications</b>             |  |
| Operation Temperature ( $^{\circ}\text{C}$ ) | $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$ |
| Humidity (%)                                 | 5~95   |

### 3. Gain

| Gain&Efficiency<br>增益、效率 |                 |                      |                     |
|--------------------------|-----------------|----------------------|---------------------|
| frequency<br>频率(MHz)     | gain<br>增益(dBi) | efficiency<br>效率(dB) | efficiency<br>效率(%) |
| 2400                     | 1.36            | -4.27                | 37.43               |
| 2410                     | 0.75            | -4.71                | 33.8                |
| 2420                     | 1.12            | -4.69                | 33.93               |
| 2430                     | 0.85            | -5.01                | 31.54               |
| 2440                     | 0               | -5.27                | 29.72               |
| 2450                     | 0.24            | -5.32                | 29.36               |
| 2460                     | 0               | -5.55                | 27.88               |
| 2470                     | -0.32           | -5.49                | 28.27               |
| 2480                     | 0.03            | -5.37                | 29.02               |
| 2490                     | -0.3            | -5.64                | 27.26               |
| 2500                     | -0.06           | -5.34                | 29.26               |

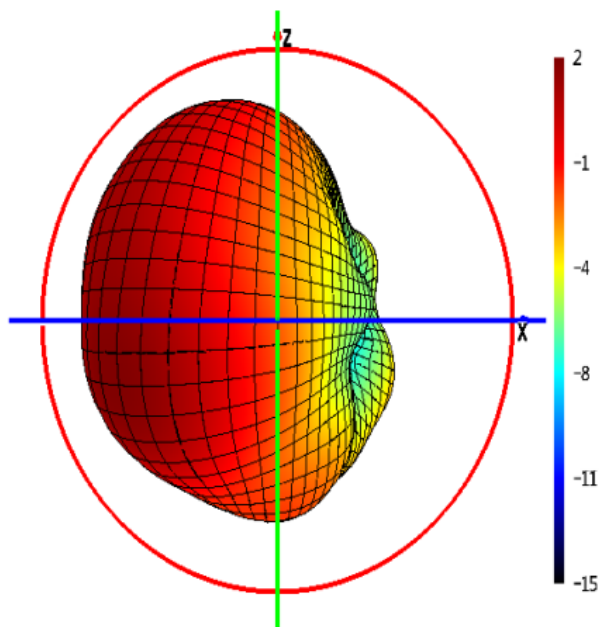
### 4. INSERTION LOSS/RETURN LOSS/VSWR



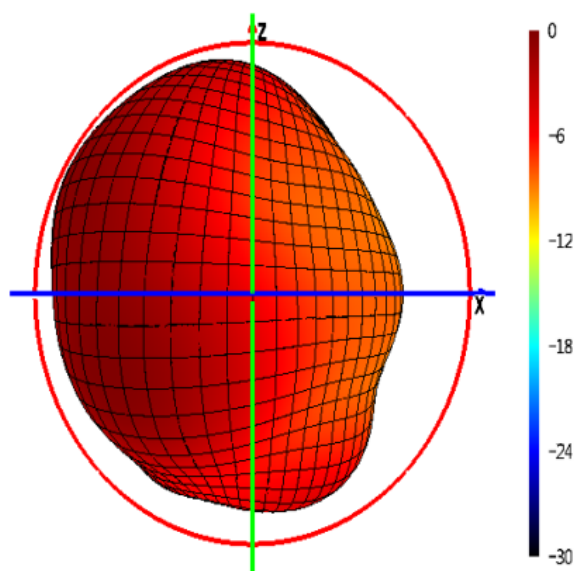
---

## 5. 3D Pattern

2400MHZ



2440MHZ



---

2480MHZ

