

ZX

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Version of the no.: SPEC-ZXW20250803

effective date

commencement date: 2025-08-03

Shenzhen Zhixing Micro Technology Co., Ltd

## 2.4GHz antenna

Acknowledge the book

|                           |                                                          |
|---------------------------|----------------------------------------------------------|
| customer name:            | manufacturer: Shenzhen Zhixing Micro Technology Co., Ltd |
| Customer Material Number: | product model : W02PCBANT                                |
| Part of :                 | serial number: ZX20250803002<br>versions: A01            |

This Specifications is received

SIGN:

DATE:

| Drawn by           | Checked by         | Approved by         |
|--------------------|--------------------|---------------------|
| Jhon<br>2025/08/03 | Judy<br>2025/08/03 | Devin<br>2025/08/03 |

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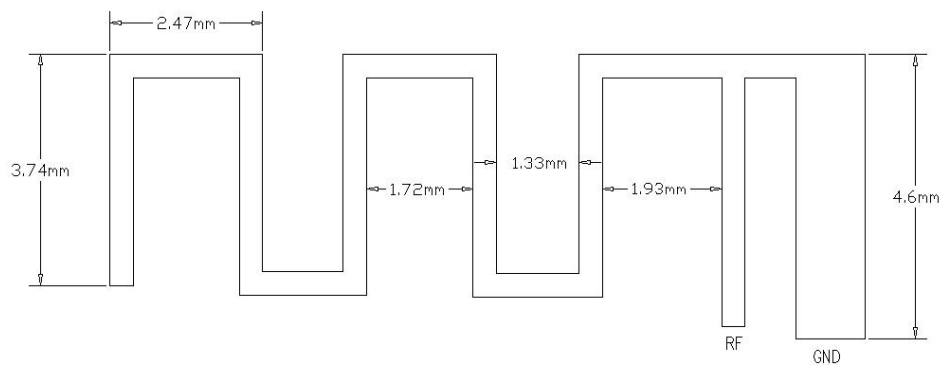
Business Mailbox : fae@wlsiot.com

## 1. Description

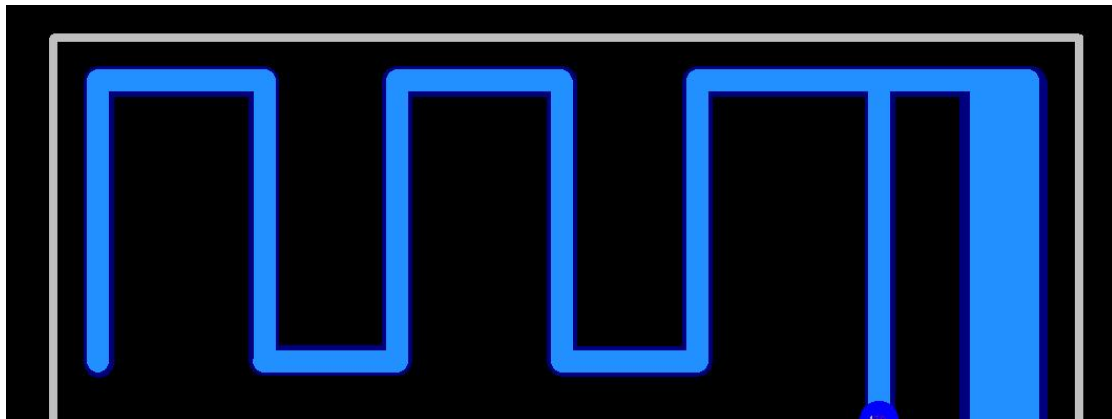
### 1.1 Specifications

|                   |                                |
|-------------------|--------------------------------|
| Antennas Type     | PCB antenna 2.4GHz application |
| Frequency         | 2.4-2.4835GHz                  |
| Impedance         | 50Ω                            |
| Polarization      | Linear                         |
| Radiation pattern | Omni-directional               |
| VSWR              | 2.5 Max                        |
| Peak gain         | +0.75dBi                       |
| Connector Type    | (type)w/o                      |
| Cable Type        | w/o                            |
| Cable length      | w/o                            |

### 1.2 Antenna size



### 1.2 Antenna Picture



2.4G Antenna

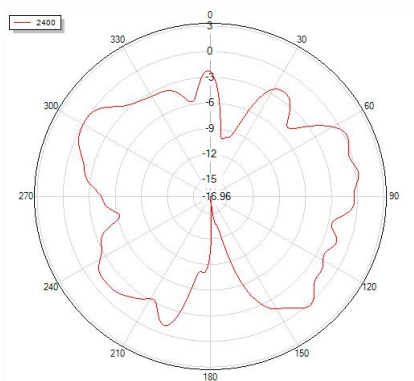
## 2. Performance Data

### 2.1Report

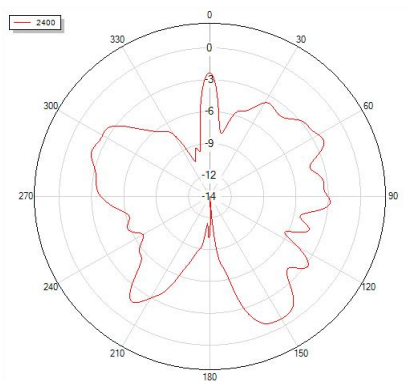
| Frequency ID     | 1     | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10    | 11    |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Frequency (MHz)  | 2400  | 2410  | 2420  | 2430  | 2440  | 2450  | 2460  | 2470  | 2480  | 2490  | 2500  |
| Gain (dBi)       | 0.48  | 0.31  | 0.40  | 0.43  | 0.75  | 0.62  | 0.41  | 0.01  | 0.44  | 0.82  | 1.29  |
| Efficiency (dB)  | -3.75 | -3.75 | -3.72 | -3.85 | -3.84 | -3.94 | -3.92 | -3.90 | -3.82 | -3.83 | -3.79 |
| Efficiency (%)   | 42.16 | 42.21 | 42.44 | 41.20 | 41.30 | 40.35 | 40.56 | 40.72 | 41.52 | 41.36 | 41.79 |
| Directivity (dB) | 3.95  | 4.04  | 4.12  | 4.27  | 4.15  | 4.04  | 4.02  | 4.11  | 4.53  | 4.79  | 4.91  |

### 2.2 EtotatGraphs

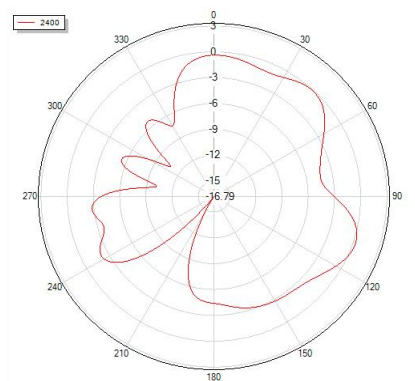
Phi=0 freq=2400MHz



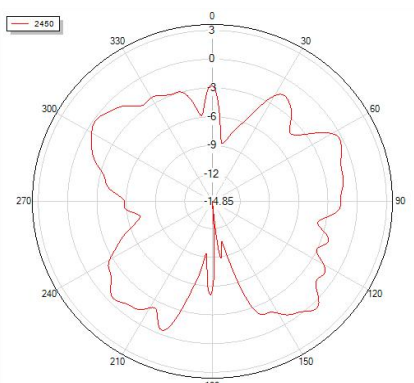
Phi=90 freq=2400MHz



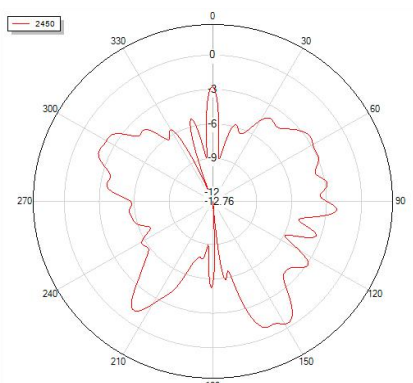
Theta=90 freq=2400MHz



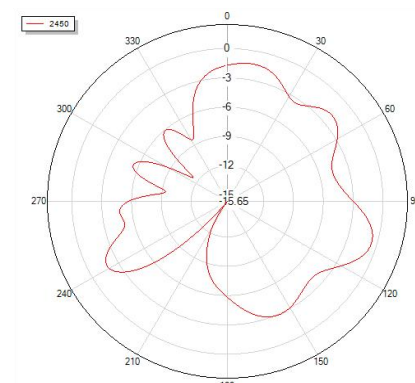
Phi=0 freq=2450MHz



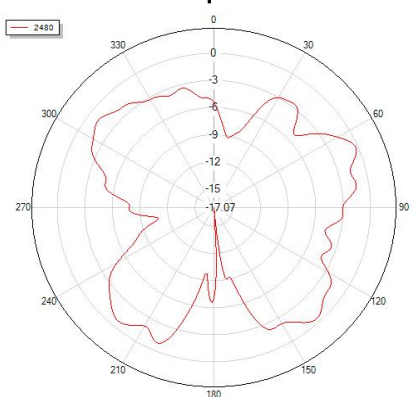
Phi=90 freq=2450MHz



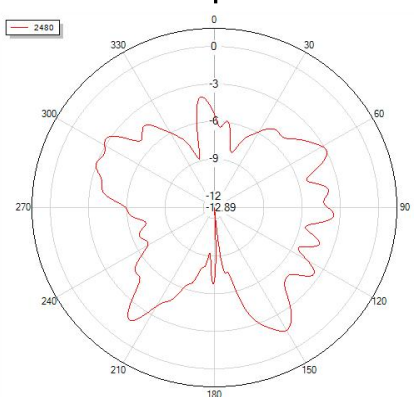
Theta=90 freq=2450MHz



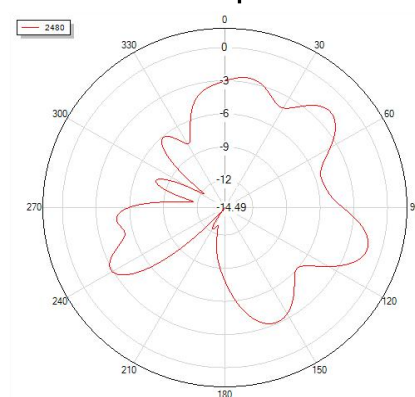
Phi=0 freq=2480MHz



Phi=90 freq=2480MHz



Theta=90 freq=2480MHz



## 2.3 3D\_Graphs(Total)

