

# 红点信息科技（深圳）有限公司

RED DOT INFORMATION TECHNOLOGY SHE NIZ ENCO, LTD

## 产品规格书

PRODUCT SPECIFICATION

|                              |                 |
|------------------------------|-----------------|
| 客户<br>customer               |                 |
| 客户编码<br>customer part number |                 |
| 产品料号<br>product Materialcode |                 |
| 工作频段<br>working Band         | 2400MHz-2500MHz |
| 发行日期<br>Issue Date           | 2024-06-25      |
| 发行版本<br>Releaseversion       | A5              |
| 作者<br>Author                 | 邹杨辰             |

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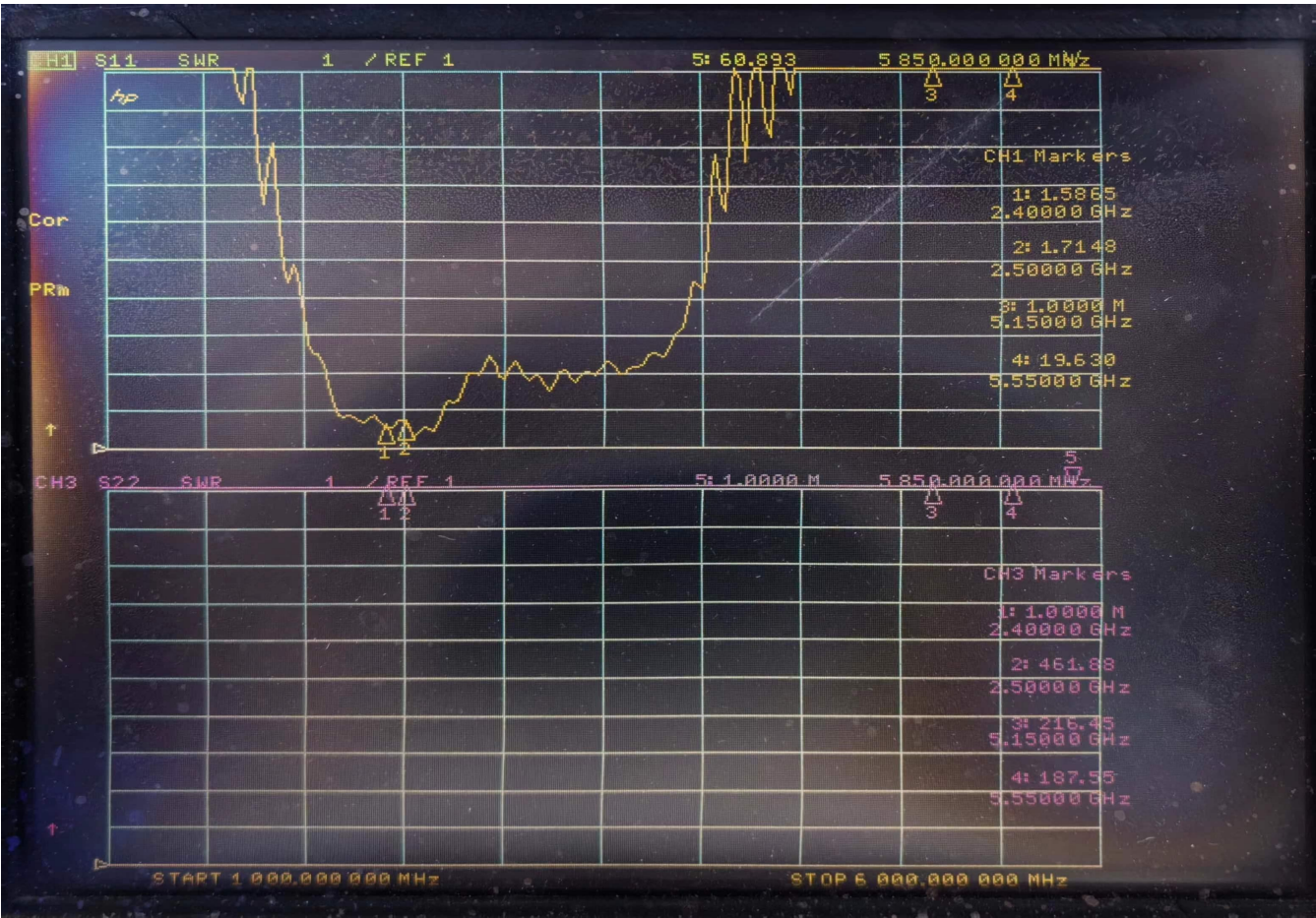
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# 一、产品技术指标 (Product technical indicators)

| 电性能指标 Electrical Specifications |              |
|---------------------------------|--------------|
| 频率范围 Frequency Range (MHz)      | 2400-2500    |
| 输入阻抗 Input Impedence(Ω)         | 50           |
| 频带宽度 Bandwidth (MHz)            | 100          |
| 电压驻波比 VSWR                      | <2           |
| 增益 Gain (dBi)                   | 2.4G:1.32DBI |
| 极化形式 Polarization Type          | 线极化          |
|                                 |              |
| 机械指标 Mechanical Specifications  |              |
| 工作温度 OperatinTemp (°C)          | -40~85       |
| 储存温度 Storing Temp (°C)          | -40~85       |
|                                 |              |
|                                 |              |
|                                 |              |

二、驻波比 (VSWR)

|                |      |      |  |
|----------------|------|------|--|
| Frequency(MHz) | 2400 | 2500 |  |
| VSWR           | 1.58 | 1.71 |  |

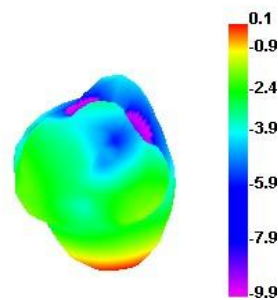


### 三、效率/增益 (Efficiency/Gain)

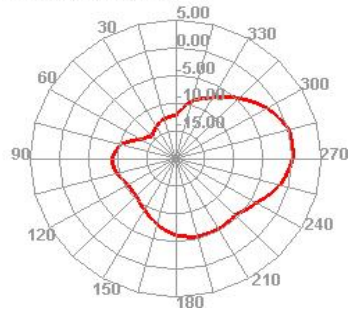
| Passive Test For WiFi2.4 |             |              |               |               |            |            |             |             |                     |                    |              |              |
|--------------------------|-------------|--------------|---------------|---------------|------------|------------|-------------|-------------|---------------------|--------------------|--------------|--------------|
| Freq<br>(MHz)            | Effi<br>(%) | Effi<br>(dB) | Gain<br>(dBi) | Gain<br>(dBd) | UHS<br>(%) | DHS<br>(%) | Max<br>(dB) | Min<br>(dB) | irectivity<br>(dBi) | Beamwidth<br>(3dB) | AttH<br>(dB) | AttV<br>(dB) |
| 2400                     | 22.6        | -6.46        | 0.15          | -2            | 11.509     | 11.089     | 0.15        | -17.61      | 6.61                | 30                 | 45.82        | 46.01        |
| 2410                     | 24.1        | -6.18        | 0.52          | -1.63         | 12.362     | 11.735     | 0.52        | -16.91      | 6.7                 | 30                 | 45.87        | 46.24        |
| 2420                     | 23.13       | -6.36        | 0.5           | -1.65         | 12.129     | 11.004     | 0.5         | -18.06      | 6.86                | 30                 | 45.73        | 46.1         |
| 2430                     | 23.51       | -6.29        | 0.64          | -1.51         | 12.799     | 10.709     | 0.64        | -19.27      | 6.92                | 30                 | 45.66        | 45.99        |
| 2440                     | 24.63       | -6.09        | 0.8           | -1.35         | 13.763     | 10.866     | 0.8         | -18.53      | 6.88                | 30                 | 45.84        | 46.29        |
| 2450                     | 26.05       | -5.84        | 1             | -1.15         | 14.788     | 11.267     | 1           | -18.46      | 6.84                | 30                 | 46.01        | 46.42        |
| 2460                     | 26.49       | -5.77        | 1.01          | -1.14         | 15.27      | 11.22      | 1.01        | -19.18      | 6.78                | 60                 | 46.02        | 46.64        |
| 2470                     | 26.91       | -5.7         | 1.06          | -1.09         | 15.79      | 11.118     | 1.06        | -20.24      | 6.76                | 60                 | 46.14        | 46.65        |
| 2480                     | 27.28       | -5.64        | 1.11          | -1.04         | 16.315     | 10.964     | 1.11        | -21.02      | 6.75                | 45                 | 46.47        | 47.13        |
| 2490                     | 28.78       | -5.41        | 1.32          | -0.83         | 17.532     | 11.252     | 1.32        | -20.61      | 6.73                | 45                 | 46.95        | 47.32        |
| 2500                     | 26.04       | -5.84        | 0.98          | -1.17         | 16.184     | 9.856      | 0.98        | -21.77      | 6.83                | 45                 | 46.86        | 47.55        |

四、方向性图(Directivity diagram)

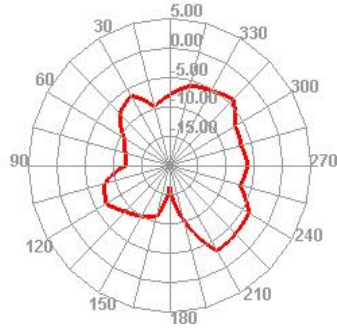
2400.000MHz



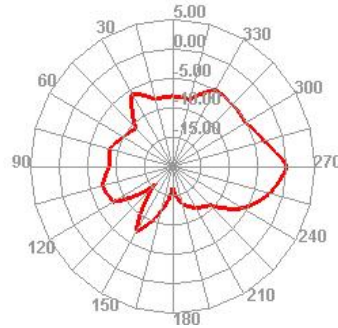
2400.000MHz H



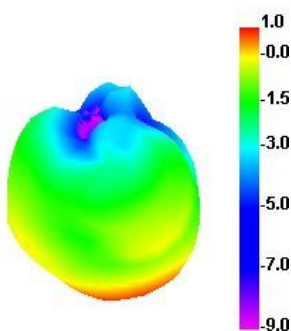
2400.000MHz E1



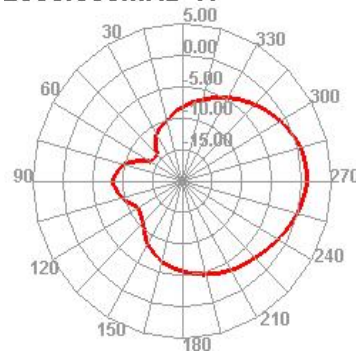
2400.000MHz E2



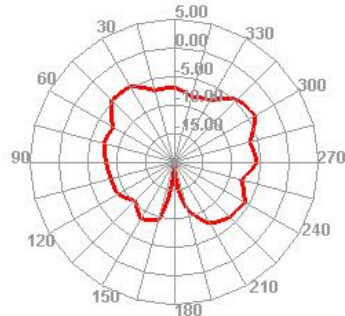
2500.000MHz



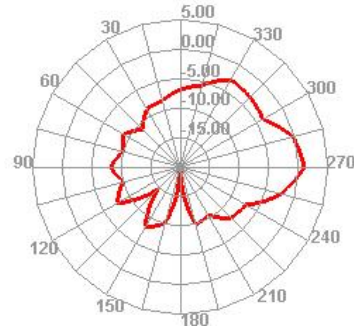
2500.000MHz H



2500.000MHz E1



2500.000MHz E2



## 五、产品图纸 (Product drawing)

