

开发案号: Y221024132

日期: 2023.04.20

版本: A0

# 承 认 书

Acknowledgement

调试项目: DA919

Commissioning Item:

博安通料号: 79300011

Boonton Material No.:

规格描述: 内置天线-2.4 / 5G-FPC-16.9×7mm

Specification: Built-in antenna-2.4/5G-FPC-16.9×7mm

出厂签章:

Signed by factory:

| 编 写<br>Write        | 审 核<br>Review  | 批 准<br>Approval  |
|---------------------|----------------|------------------|
| 黄飞辉<br>Huang Feihui | 胡冲<br>Hu Chong | 刘立华<br>Liu Lihua |

## 博安通联系方式 Contact information

|                                 |                 |                         |
|---------------------------------|-----------------|-------------------------|
| 业务联系人: 龙明国<br>Business contact: | 手机: 18576042661 | 邮箱: longmg@tech-now.com |
| 技术联系人: 胡冲<br>Technical Contact: | 手机: 15986832541 | 邮箱: huc@tech-now.com    |
| 品质联系人: 雷浩<br>Quality Contact:   | 手机: 15681917991 | 邮箱: sc_qe2@tech-now.com |

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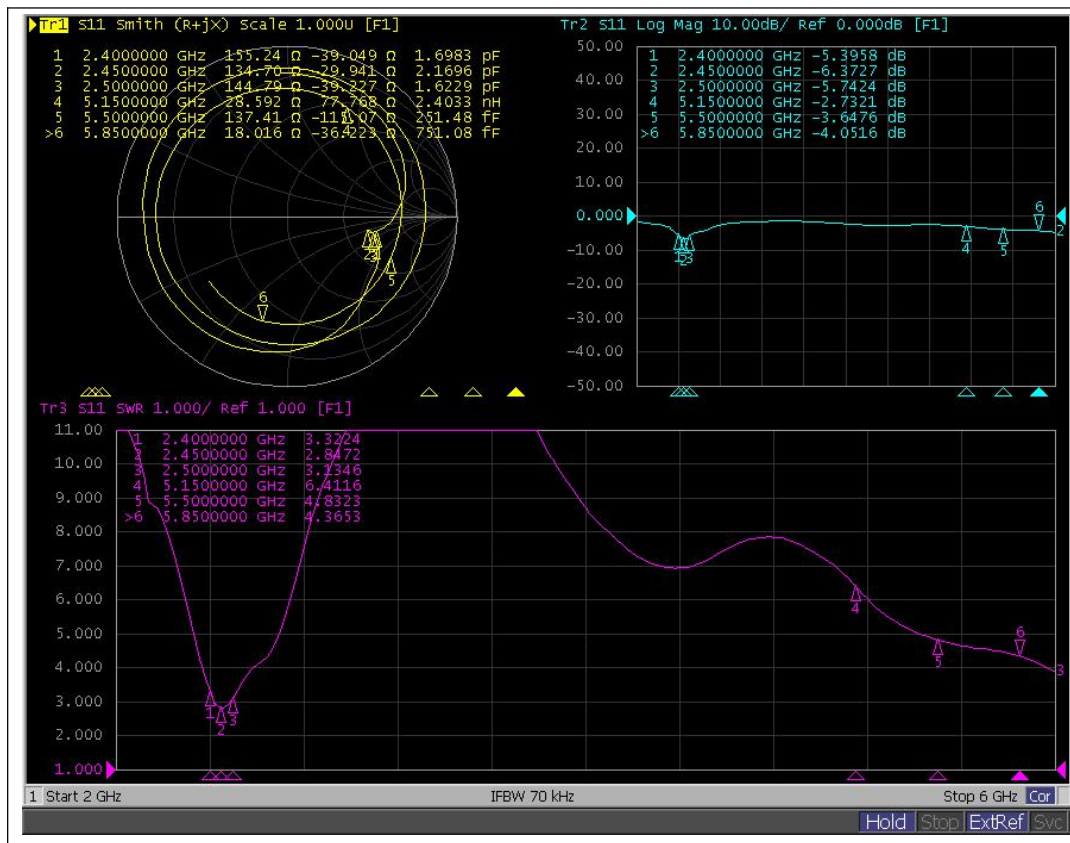
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#### 4、性能参数

| 电气参数 Electrical parameters    |                                                      |
|-------------------------------|------------------------------------------------------|
| 频率范围<br>Frequency Range       | 2400-2500MHz/5150-5850MHz                            |
| 输入阻抗<br>Input Impedance       | 50 $\Omega$                                          |
| 驻波比<br>VSWR                   | 对照工程封样<br>Comparison with engineering sealing sample |
| 极化方式<br>Polarisation          | 线极化<br>Polarisation Line                             |
| 辐射方向<br>Radiation Direction   | 全向<br>Omni-directional                               |
| 环境参数 Environmental parameters |                                                      |
| 工作温度<br>Working temperature   | -20℃~40℃                                             |

## 5、Electrical Performance Test Report (Whole Machine)



### 5.2 Standing wave ratio data

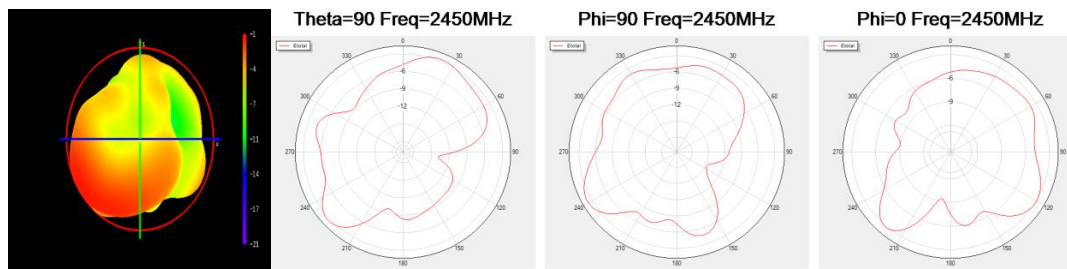
| Frequency /MHz | 2400 | 2450 | 2500 | 5150 | 5500 | 5850 |
|----------------|------|------|------|------|------|------|
| VSWR           | 3.32 | 2.84 | 3.13 | 6.41 | 4.83 | 4.36 |

### 5.3 Antenna darkroom test data

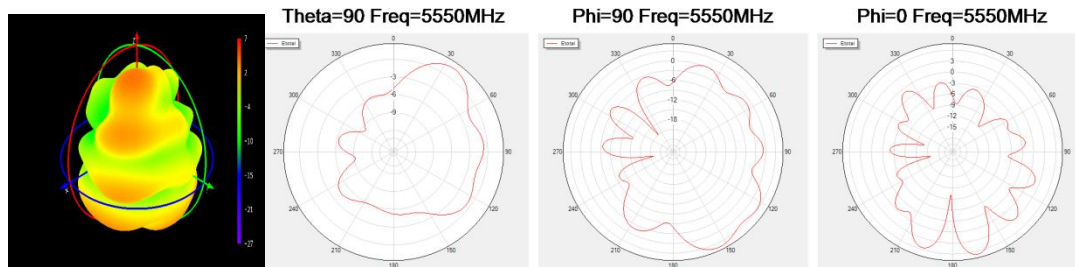
| Frequency (MHz) | DA919      |                |
|-----------------|------------|----------------|
|                 | Gain (dBi) | Efficiency (%) |
| 2400            | 1.72       | 33.1           |
| 2410            | 1.67       | 32.48          |
| 2420            | 1.65       | 32.39          |
| 2430            | 1.32       | 33.65          |
| 2440            | 1.6        | 31.91          |
| 2450            | 1.39       | 32.21          |
| 2460            | 0.96       | 34.88          |
| 2470            | 0.94       | 33.4           |
| 2480            | 0.23       | 31.86          |
| 2490            | 1.77       | 33.7           |
| 2500            | 1.43       | 36.04          |
| 5150            | 3.12       | 58.38          |
| 5250            | 2.82       | 56.29          |
| 5350            | 2.76       | 52.27          |
| 5450            | 3.08       | 52.51          |
| 5550            | 3.82       | 56.86          |
| 5650            | 4.03       | 51.24          |
| 5750            | 3.2        | 52.86          |
| 5850            | 3.21       | 50.29          |

## ➤ Antenna pattern

2450MHz



5550MHz



## 6、Table of material composition and hazardous substances

| 项次 | Specification | Material      | RoHSTest result (PPM) |    |    |      |     |      | ICPTTest Number  | Detection time |
|----|---------------|---------------|-----------------------|----|----|------|-----|------|------------------|----------------|
|    |               |               | Cd                    | Pb | Hg | Cr+6 | PBB | PBDE |                  |                |
| 1  | FPC           | PI            | ND                    | ND | ND | ND   | ND  | ND   | SHAEC23001049105 | 2023/2/15      |
|    |               | Back adhesive | ND                    | ND | ND | ND   | ND  | ND   | SHAEC2217569205  | 2023/1/4       |

## 产品包装规范

### PACKING CRITERION

Product material number: 79300009

Product Specification: Built-in antenna-2.4 / 5G-FPC-16.9×7mm

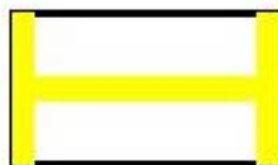
一、Label requirements (Refer to the corresponding finished product label production requirements based on the customer's name. If there are no requirements, follow the ordinary label requirements)

Outer packaging:

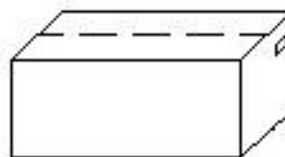
The quantity per box is determined according to the actual packaging

Notes:

1. Whether to add partitions and pearl cotton; 2 The application of labels, such as ROHS, etc



纸箱



## 8、Schematic diagram of antenna installation

