



Shenzhen Xinersheng Technology Co., Ltd.

ShenZhen XinErSheng Technology Co.,Ltd

# Acknowledgement

Customer name: \_\_\_\_\_

Product Name: 5.15–5.85G Mushroom-Head Antenna, 1.37 mm, Black

Wire, L=90 mm, with fastener

Customer Part Number: \_\_\_\_\_ Manufacturer Part Number: XESANT

11A13489 Sample quantity: 5PCS

| Fabrication   | Examine and verify | Approval   | Sample Submission Date |
|---------------|--------------------|------------|------------------------|
| Sun Chuanrong | Fang Lizhi         | Li Qinghui | 2026.04.01             |

The customer acknowledges:

| Admit | Examine and verify | Approval | Acknowledgment Date |
|-------|--------------------|----------|---------------------|
|       |                    |          |                     |

Acknowledged circumstances: ☒ new product ☐ Product Change

Approved Projects: ☐ The letter of acknowledgment shall be prepared in three copies. ☐ Sample: 5 pieces

Acknowledged Conclusion: ☐ receive ☐ refuse

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### Key Technical Parameters of the Product

| Key Technical Parameters                   |                                             | Main technical specifications |                                             |
|--------------------------------------------|---------------------------------------------|-------------------------------|---------------------------------------------|
| Frequency range (MHz)                      | 5150-5850                                   | Frequency Range(MHZ)          | 5150-5850                                   |
| Center frequency                           | $50 \pm 10$                                 | Impedance( $\Omega$ )         | $50 \pm 10$                                 |
| Characteristic impedance ( $\Omega$ )      |                                             |                               |                                             |
| Peak gain (dBi)                            | $0 \pm 0.5$                                 | Peak Gain(dBi)                | $0 \pm 0.5$                                 |
| Reflection loss                            | $\leq -10$                                  | ReTurnLoss(dB)                | $\leq -10$                                  |
| Output voltage voltage standing wave ratio | $\leq 2$                                    | VSWR                          | $\leq 2$                                    |
| Polarization mode                          | Left-hand circular polarization             | Polarization mode             | LHCP                                        |
| Directionality                             | Omnidirectional                             | Directivity                   | Omnibearing                                 |
| Connection Method                          | IPEX                                        | Connector Type                | IPEX                                        |
| Physical characteristics                   |                                             | Physical Properties           |                                             |
| Antenna body material                      | ABS                                         | Antenna Base                  | ABS                                         |
| Working temperature                        | $-20^{\circ}\text{C} - +60^{\circ}\text{C}$ | Operating Temp                | $-20^{\circ}\text{C} - +60^{\circ}\text{C}$ |
| Storage temperature                        | $-20^{\circ}\text{C} - +70^{\circ}\text{C}$ | Storage Temp                  | $-20^{\circ}\text{C} - +70^{\circ}\text{C}$ |



- Device Type: S2022EU3 Antenna
- Antenna frequency band: 5.15–5.725–5.85 GHz
- Antenna type: External antenna
- Connection type: Ipex1
- Hardware version: V1

## 2. Product Specifications

### ● Passive Electrical Specifications

- Frequency Range (MHz): 5150–5850
- Input Impedance ( $\Omega$ ): 50
- Voltage Standing Wave Ratio (VSWR)  $\leq 2$
- Gain GAIN (dBi): 0

### ● Mechanical Specifications

- Operating Temperature ( $^{\circ}\text{C}$ ): -30 to +80
- Line color: Black
- Antenna size (mm): 80
- Interface type: IPEX1
- Connection bus length (mm): 80

## 3. Test environment

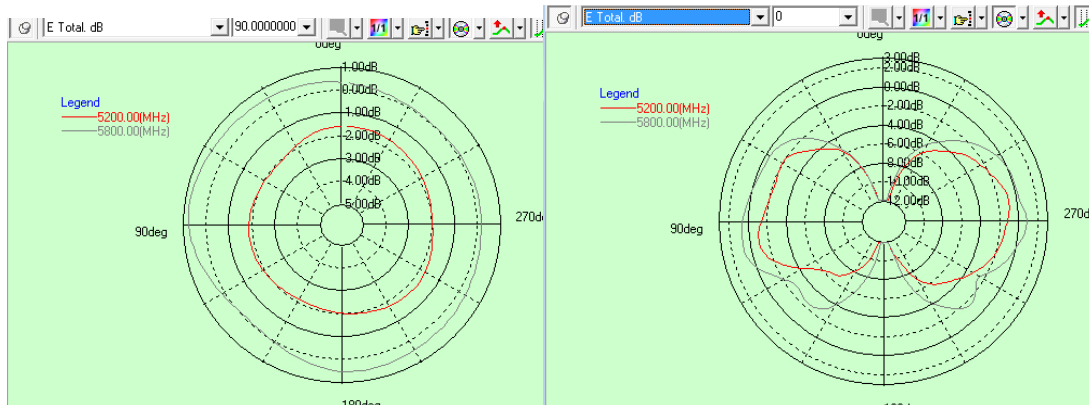
- Network Analyzer: ZVB8
- Network Analyzer: 5071c
- Comprehensive Tester: R&S CMW500 (2/3/4G/NB-IoT/WIFI/BT);
- Microwave anechoic chamber: 5G SISO/MIMO, 400 MHz – 8.0 GHz
- RayZone® 2800 Chamber 5G (FR1) SISO/MIMO, 400 MHz – 8.0 GHz

## 4. Antenna Return Loss/VSWR

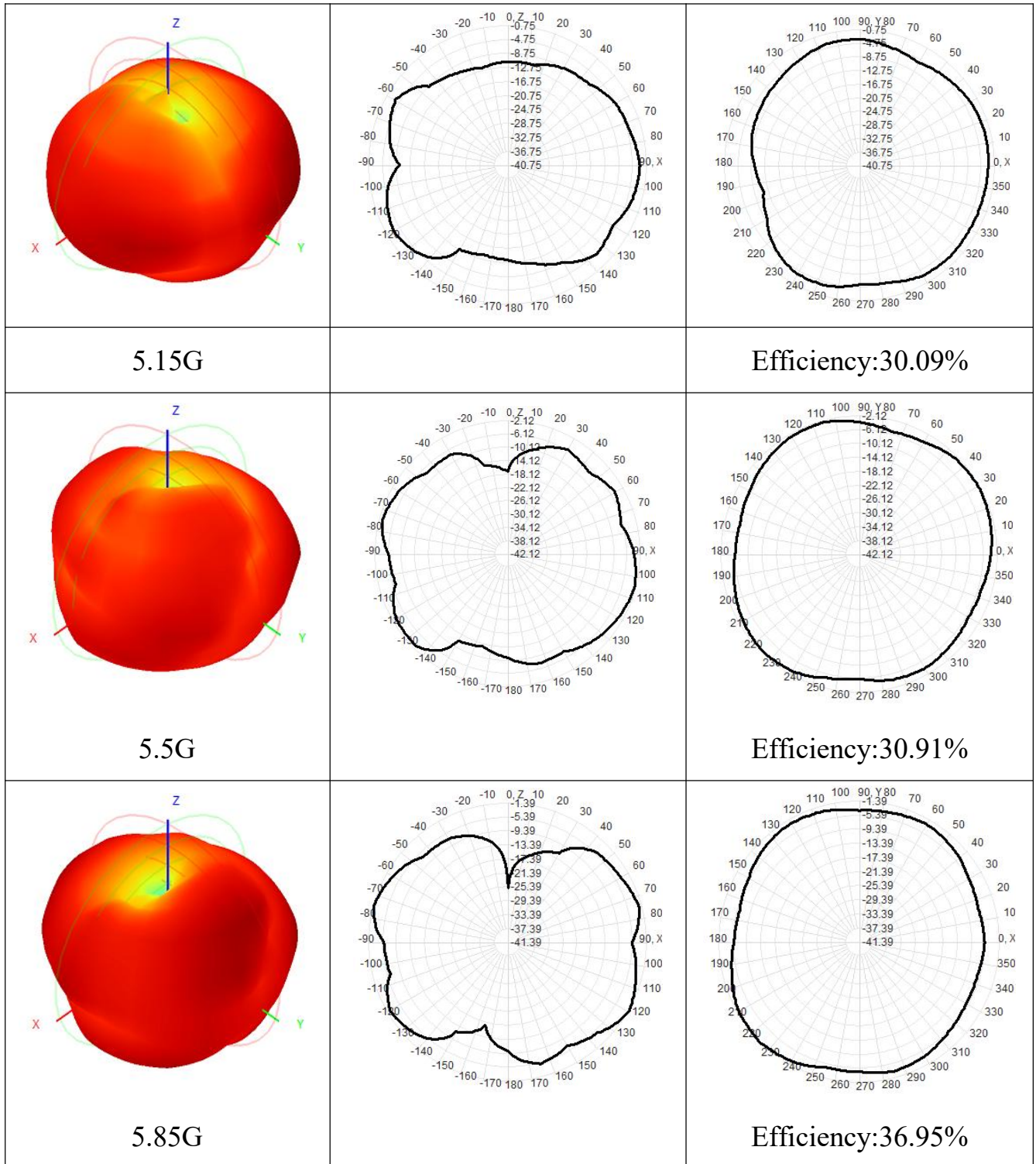


## 5. Antenna Gain

| Frequency | Gain | Productiveness |
|-----------|------|----------------|
| 5150MHz   | -0.5 | 44%            |
| 5200MHz   | -0.6 | 46%            |
| 5250MHz   | -0.6 | 50%            |
| 5700MHz   | 0.3  | 67%            |
| 5725MHz   | 0.4  | 68%            |
| 5750MHz   | 0.4  | 71%            |
| 5775MHz   | 0.4  | 72%            |
| 5800MHz   | 0.5  | 74%            |
| 5825MHz   | 0.5  | 72%            |
| 5850MHz   | 0.5  | 70%            |



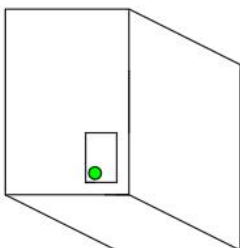
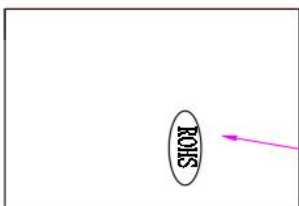
### 2D、3DRaditation Pattern



成品图

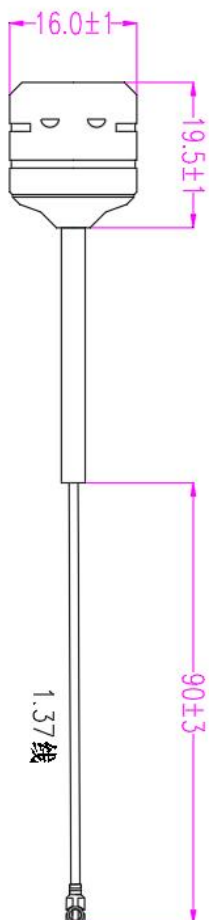


## ROHS环保标签



1. 外箱需貼IPCS/ROSE標籤于外箱標籤上
2. 外箱需貼IPCS/外箱標籤于外箱側或右上角

Specification:  
Frequency Rang:5150-5850MHZ  
Return Loss:-10DB or less  
VSWR<sup>2</sup> Max  
gain:0 dbi



| 2  | 射頻線         | 1.37線 |        |
|----|-------------|-------|--------|
| 1  | 端子          | 銅     |        |
| NO | DESCRIPTION | Q'TY  | REMARK |

|                                              |  |                                   |  |                                                                                                |  |        |  |            |  |            |  |
|----------------------------------------------|--|-----------------------------------|--|------------------------------------------------------------------------------------------------|--|--------|--|------------|--|------------|--|
| TITLE:                                       |  | 5.8G左旋圆极化天线 1.37黑色线<br>1-90MM, 带扣 |  | 深圳市鑫尔盛科技有限公司                                                                                   |  |        |  |            |  |            |  |
| P/N                                          |  |                                   |  |                                                                                                |  |        |  |            |  |            |  |
| CUSTOMER:                                    |  |                                   |  |                                                                                                |  |        |  |            |  |            |  |
| DRAW NO.:                                    |  | YESANT11A13489                    |  |                                                                                                |  |        |  |            |  |            |  |
| DIMENSIONS TOLERANCES UNLESS OTHERWISE NOTED |  |                                   |  | <div></div> |  |        |  |            |  |            |  |
| 一般公差<br>TOLERANCE                            |  | XXX ±0.05                         |  |                                                                                                |  |        |  | SHEET: 1/1 |  | SCALE: 1/1 |  |
|                                              |  | XX ±0.1                           |  |                                                                                                |  |        |  |            |  |            |  |
|                                              |  | X ±0.2                            |  |                                                                                                |  |        |  |            |  |            |  |
| X ±0.5                                       |  |                                   |  | UNIT: MM                                                                                       |  | REV. A |  | DRAWED     |  |            |  |

深圳市鑫尔盛科技有限公司

### Product Packaging Specifications

Product Name/Standard

#### I. Labeling Requirements

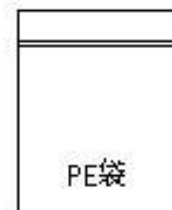
| *****                         |       |
|-------------------------------|-------|
| Purchase Order Number         | ***** |
| Material code                 | ***** |
| Product Name & Specifications | ***** |
| Quantity/Unit                 | ***** |
| Remarks                       | ***** |

| *****                         |       |
|-------------------------------|-------|
| Purchase Order Number         | ***** |
| Material code                 | ***** |
| Product Name & Specifications | ***** |
| Quantity/Unit                 | ***** |
| Remarks                       | ***** |

#### II. Packing Instructions:

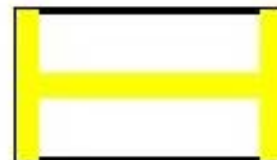
##### 1. inner packing:

Product 1 PCS – one small bag

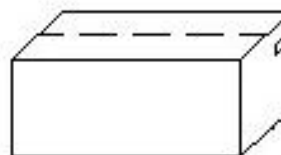


##### 2. external packing:

Determine quantity based on actual requirements/case



纸箱



#### Matters Need Attention:

- Whether to install additional partitions or polystyrene foam;
- Affixing of labels, such as ROHS;