

# 源创星电子（深圳）有限公司

Yuanchuangxing electronics (Shenzhen) CO., LTD.

Customer Name: 乐为

Customer Moder:

Customer P/N: 1. ANT. ANT844410001

Customer Describe:

YCX P/N: YCX09N-B1040-84B

Customer Describe: 5G brass tube antenna (φ4.4\*10) 1.13cable Length=84mm

## PRODUCT SPECIFICATION

| Signature and seal of confirmation |           |          |                      |           |          |
|------------------------------------|-----------|----------|----------------------|-----------|----------|
| YCX Approved                       |           |          | Customer Approved    |           |          |
| Sample                             | audit     | approved | validation           | audit     | approved |
| zouyc                              |           |          |                      |           |          |
| YCX Approved By                    |           |          | Customer Approved By |           |          |
| Date                               | 2024-5-22 |          | Date                 | 2024-5-22 |          |

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File for amendment/revocation/resume

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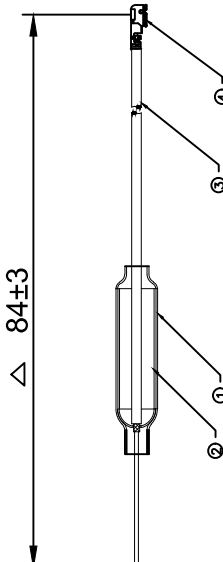
## 3、Directory

|                                             |   |
|---------------------------------------------|---|
| 1、directory.....                            | 1 |
| 2、File for amendment/revocation/resume..... | 2 |
| 3、directory.....                            | 3 |
| 4、Product drawings.....                     | 4 |
| 5、Passive performance test paramete.....    | 5 |
| 6、2D、3D Performance figure.....             | 6 |
| 7、Electrical performance test report.....   | 7 |

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4、Product drawings

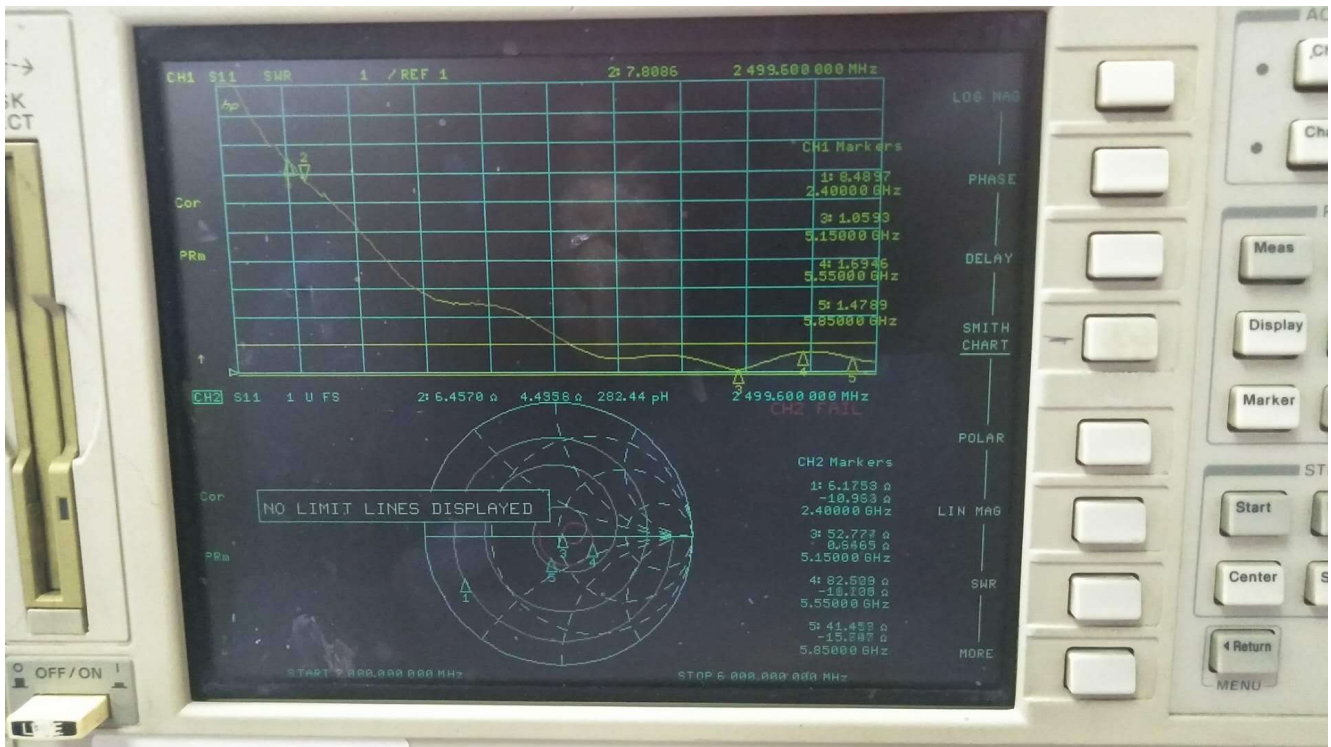
|                                                                                                                                                                                                                                                                                  |  |                         |  |                             |  |     |   |                                                                    |   |                                                                                                                |   |                                 |   |               |            |           |                           |                           |                    |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------|--|-----------------------------|--|-----|---|--------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------------------------|---|---------------------------------|---|---------------|------------|-----------|---------------------------|---------------------------|--------------------|--|
| 7                                                                                                                                                                                                                                                                                |  |                         |  |                             |  |     | 6 |                                                                    | 5 |                                                                                                                | 4 |                                 | 3 |               | 2          |           | 1                         |                           | SIGNATURE          |  |
|                                                                                                                                                                                                                                                                                  |  |                         |  |                             |  |     |   |                                                                    |   |                                                                                                                |   |                                 |   |               | REV.<br>A1 |           | CHANGE DESCRIPTION<br>New |                           | DATE<br>2024.05.22 |  |
|                                                                                                                                                                                                                                                                                  |  |                         |  |                             |  |     |   |                                                                    |   |                                                                                                                |   |                                 |   |               |            |           |                           |                           | zyc                |  |
| D                                                                                                                                                                                                                                                                                |  |                         |  |                             |  |     |   |                                                                    |   |                                                                                                                |   |                                 |   |               |            |           |                           |                           |                    |  |
| C                                                                                                                                                                                                                                                                                |  |                         |  |                             |  |     |   |                                                                    |   |                                                                                                                |   |                                 |   |               |            |           |                           |                           |                    |  |
| B                                                                                                                                                                                                                                                                                |  |                         |  |                             |  |     |   |                                                                    |   |                                                                                                                |   |                                 |   |               |            |           |                           |                           |                    |  |
| A                                                                                                                                                                                                                                                                                |  |                         |  |                             |  |     |   |                                                                    |   |                                                                                                                |   |                                 |   |               |            |           |                           |                           |                    |  |
| Technical requirements:<br>1. Electrical parameters:<br>1.1 Impedance : 50 Ω<br>1.2 Frequency :5150-5850Mhz<br>1.3 VSWR : < 2.0<br>1.4 Peak Gain : 3.21 Max dBi<br>1.5 Polarization : Linear<br>1.6 Radiation Patten: Omni directional<br>2. All material must meet ROHS request |  |                         |  |                             |  |     |   |                                                                    |   | <div><div>△ 84±3</div></div> |   |                                 |   |               |            |           |                           |                           |                    |  |
| ⑥                                                                                                                                                                                                                                                                                |  |                         |  |                             |  |     |   | TOLERANCE                                                          |   | 源创星电子（深圳）有限公司<br>Yuanchuangxing electronics (Shenzhen)CO., LTD.                                                |   |                                 |   |               |            |           |                           |                           |                    |  |
| A                                                                                                                                                                                                                                                                                |  |                         |  |                             |  |     |   | .XXX ±0.05<br>.XX ±0.1<br>.X ±0.2<br>X. ±0.25<br>XX. ±1<br>XXX. ±2 |   | DRAWN BY<br>zyc                                                                                                |   | PART NO. : YCX09N-B1040-84B     |   |               |            |           |                           |                           |                    |  |
| ④                                                                                                                                                                                                                                                                                |  | connect                 |  | 1.13 IPEX                   |  | 1   |   | PCS                                                                |   | CHECKED BY<br>Mike                                                                                             |   | TITLE:<br>5G brass tube antenna |   |               |            |           |                           |                           |                    |  |
| ③                                                                                                                                                                                                                                                                                |  | Cable                   |  | 1.13 Black                  |  | 1   |   | PCS                                                                |   | APPROVED BY<br>Sky                                                                                             |   |                                 |   |               |            |           |                           |                           |                    |  |
| ②                                                                                                                                                                                                                                                                                |  | Brass Tube              |  | φ4.4*10 Nickel plating      |  | 1   |   | PCS                                                                |   |                                                                                                                |   |                                 |   |               |            |           |                           |                           |                    |  |
| ①                                                                                                                                                                                                                                                                                |  | Heat Tube               |  | Black                       |  | 1   |   | PCS                                                                |   |                                                                                                                |   |                                 |   |               |            |           |                           |                           |                    |  |
| NO.                                                                                                                                                                                                                                                                              |  | PART OR IDENTIFYING NO. |  | NOMENCLATURE OR DESCRIPTION |  | QTY |   | UNIT                                                               |   | MATERIAL                                                                                                       |   | AS DIMENSION                    |   | SCALE : 1 : 1 |            | CAD FILE: |                           | DWG TYPE: PRODUCT DRAWING |                    |  |
| 8                                                                                                                                                                                                                                                                                |  | 7                       |  | 6                           |  | 5   |   | 4                                                                  |   | 3                                                                                                              |   | 2                               |   | 1             |            |           |                           |                           |                    |  |

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## 5、Passive performance test parameters

| Frequency(MHz) | 5150 | 5500 | 5850 |  |
|----------------|------|------|------|--|
| VSWR           | 1.05 | 1.69 | 1.47 |  |



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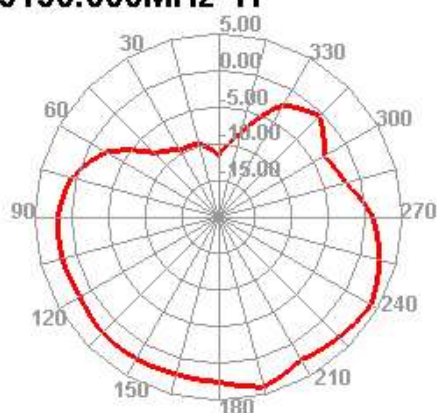
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## 6、2D、3D Performance figure

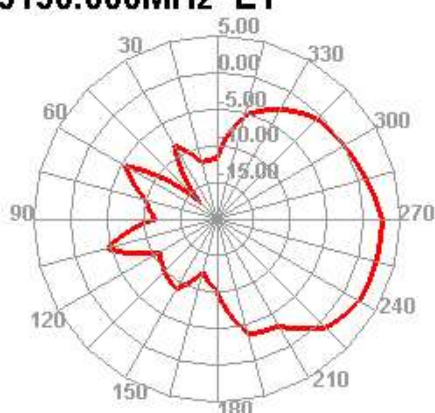
Passive Test

| Freq<br>(MHz) | Effi<br>(%) | Gain<br>(dBi) |  |
|---------------|-------------|---------------|--|
| 5150          | 68          | 3.21          |  |
| 5500          | 67          | 3.12          |  |
| 5850          | 60          | 2.44          |  |

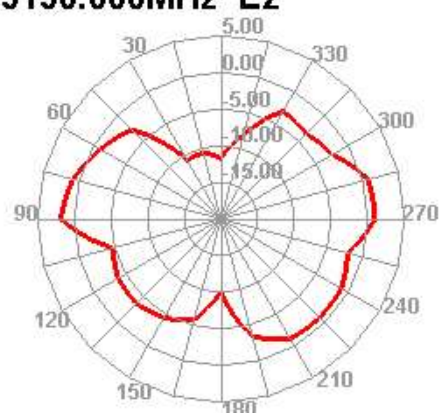
5150.000MHz H



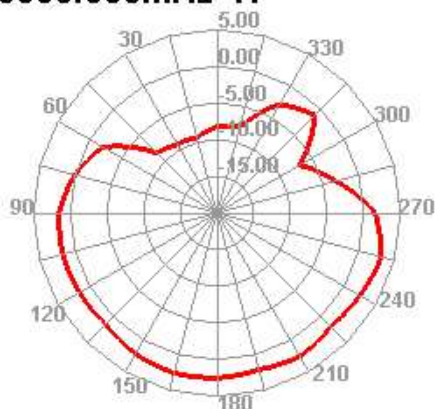
5150.000MHz E1



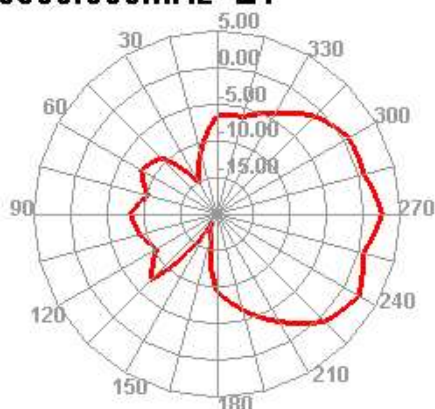
5150.000MHz E2



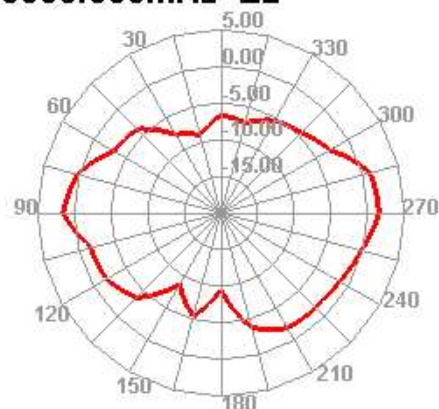
5500.000MHz H



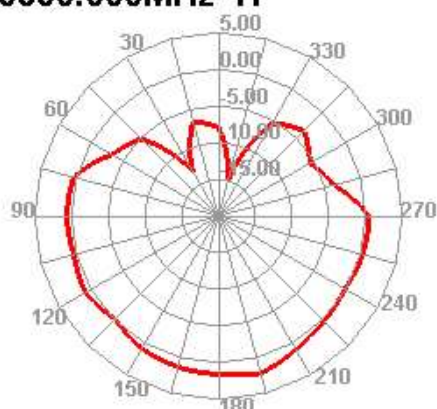
5500.000MHz E1



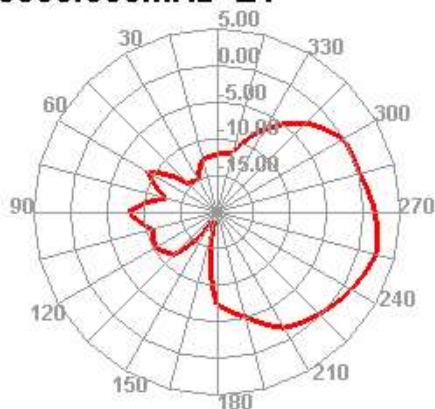
5500.000MHz E2



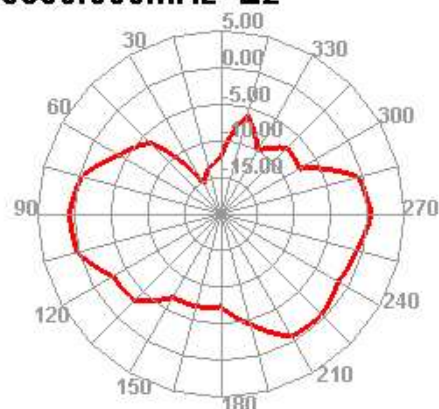
5850.000MHz H



5850.000MHz E1



5850.000MHz E2



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## 7、Electrical performance test report

| Electrical parameters    |                       |
|--------------------------|-----------------------|
| Frequency range          | 5150-5850Mhz          |
| input impedance          | 50Ω                   |
| VSWR                     | <2.0                  |
| Gain                     | 3.21dBi MAX           |
| Polarization mode        | Vertical polarization |
| Radiation direction      | omnidirectional       |
| connection method        | IPEX                  |
| Mechanical parameters    |                       |
| Cable                    |                       |
| Salt spray test          |                       |
|                          |                       |
|                          |                       |
| Environmental parameters |                       |
| Working temperature      | -20~65℃               |