

Product Number: ZC-B9093G4-SNJ-A  
Product Name: 900-930MHz Antenna

Approval Sheet

|                |                   |
|----------------|-------------------|
| Customer name: |                   |
| code:          | ZC-B9093G4-SNJ-A  |
| name:          | FRP antenna       |
|                | (900-930MHz 5dBi) |

Manufacturer:Dongguan Zhongchi Electronic Technology Co.,Ltd  
ADD:Room 301, Building 2, No. 1, Jiaopu New Road, Changan  
Town, Dongguan City, Guangdong Province

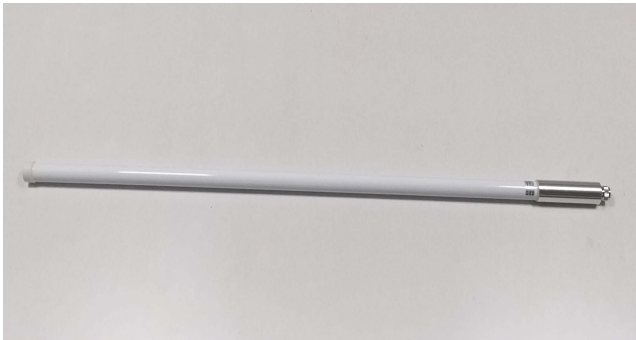
**Product Number: ZC-B9093G4-SNJ-A**

## 1. Revision History

[illegible]

Product Number: ZC-B9093G4-SNJ-A

## 2. Specification

| Sample Photo                                                                       |                              |
|------------------------------------------------------------------------------------|------------------------------|
|  |                              |
| A. Electrical Characteristics                                                      |                              |
| Frequency                                                                          | 900~930 MHz                  |
| V.S.W.R.                                                                           | $\leq 2.0$ @ 900~930         |
| Antenna Gain                                                                       | 5.0 + dBi @ 900~930          |
| Efficiency(%)                                                                      | $\geq 60$ % @ 900~930MHz     |
| Radiation Pattern                                                                  | Omni-Directional             |
| Max Input Power                                                                    | $\geq 2$ W                   |
| Polarization                                                                       | Linear polarization/Vertical |
| Impedance                                                                          | 50 Ohm                       |
| B. Material & Mechanical Characteristics                                           |                              |
| Material of Radiator                                                               | CU                           |
| Material of Plastic                                                                | FRP (white light)            |
| Cable Type                                                                         | RG-141 50 $\Omega$           |
| Connector Type                                                                     | N-J Double tooth connector   |
| C. Environmental                                                                   |                              |
| Operation Temperature                                                              | - 30 °C ~ + 65 °C            |
| Storage Temperature                                                                | - 30 °C ~ + 65 °C            |
| Antenna Color Storage life                                                         | < 2 year                     |

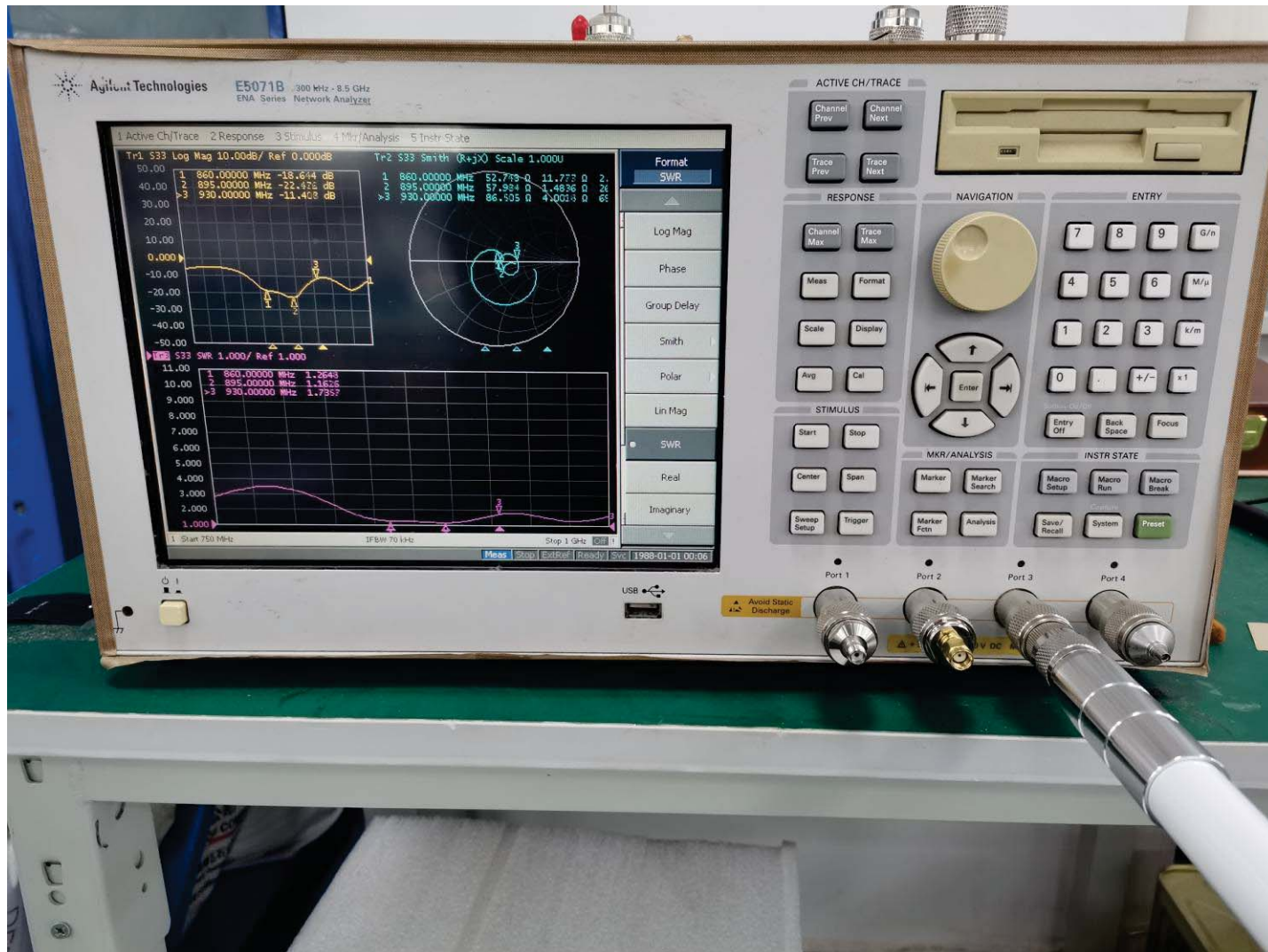
Product Number: ZC-B9093G4-SNJ-A

### 3. Characteristics and Reliability Test

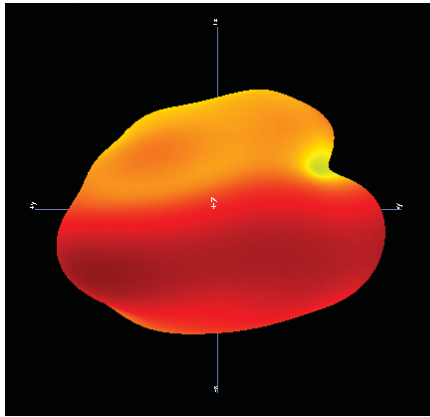
| Test Items |                   | Test Condition and Procedure                                                               | Requirements                                                            |
|------------|-------------------|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| C1         | V.S.W.R.          | Set DUT on Network Analyzer; make individual calibration to test                           | Directive DUT specification                                             |
| C2         | Antenna Gain      | Set DUT on Antenna Chamber; make individual calibration to test                            | Directive DUT specification                                             |
| E1         | Salt Spray        | GB / T 2423 . 17- 93<br>Temp: 35°C; RH: >= 95%; NaCl solution: >= 5%;<br>Time: 72 hours    | After 2 Hours Recovery<br>1. No Visual Damage<br>2. Frequency Tol.<= 5% |
| E2         | Humidity          | GB / T 2423 . 4 - 93<br>Temp: 80°C / 12 H; -40°C / 12H RH: >= 90%;<br>Time: 24 hours       | After 2 Hours Recovery<br>1. No Visual Damage<br>2. Frequency Tol.<= 5% |
| E3         | Thermal Shock     | GB / T 2423 . 22 - 87<br>1 Cycle: - 40°C (30 minutes) to + 80°C (30 minutes)<br>Cycles: 24 | After 2 Hours Recovery<br>1. No Visual Damage<br>2. Frequency Tol.<= 5% |
| E4         | Life (High Temp.) | GB /T 2423 . 2 - 89<br>Temp: 80°C; Time: 24 hours                                          | After 2 Hours Recovery<br>1. No Visual Damage<br>2. Frequency Tol.<= 5% |
| R1         | RoHS              | With Reference to IEC 62321:2008 with flow chart                                           | Directive RoHS 2011/65/EU                                               |
| R2         | PFOS              | With Reference to USA EPA 3540C:1996 by LC/MS                                              | Directive RoHS 2006/122/EC                                              |
| R3         | PFOA              | With Reference to USA EPA 3540C:1996 by LC/MS                                              | Directive RoHS 2006/122/EC                                              |

Product Number: ZC-B9093G4-SNJ-A

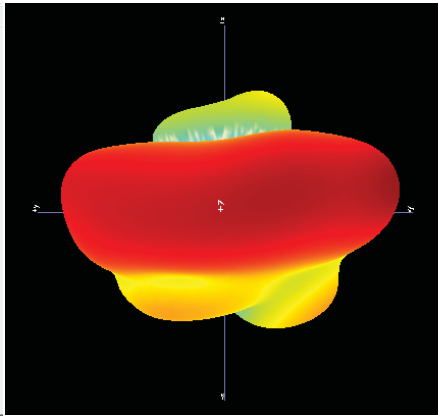
#### 4. Antenna - S Parameter Test Data



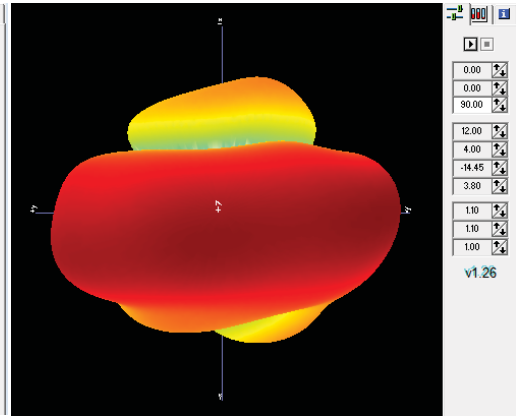
| Frequency (MHz) | Gain (dBi) | Efficiency (%) |
|-----------------|------------|----------------|
| 900             | 4.25       | 64.81%         |
| 910             | 5          | 68.23%         |
| 920             | 4.59       | 67.83%         |
| 930             | 4.68       | 63.27%         |



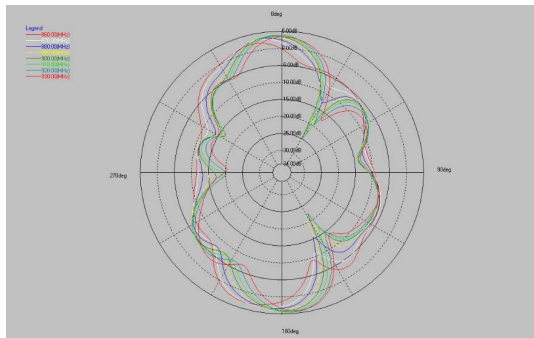
900Mhz



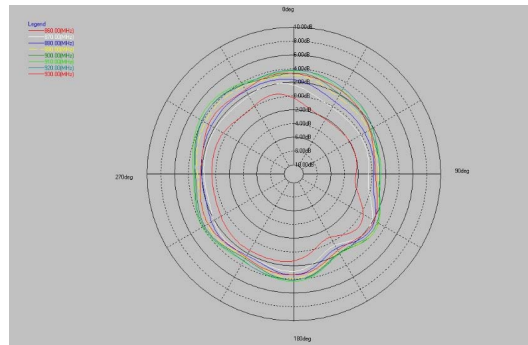
915Mhz



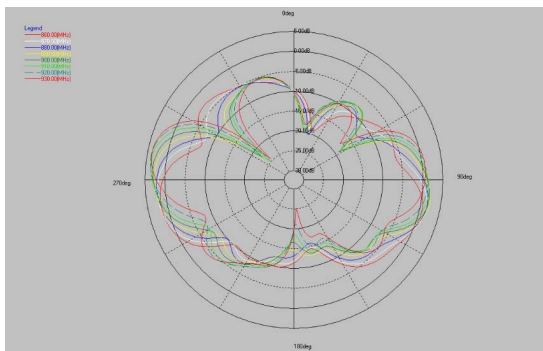
928Mhz



PIN=0



PIN=90



THETA=90



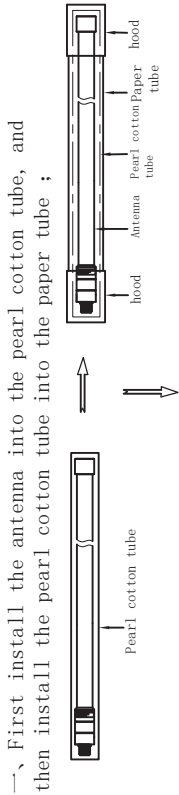
產品包裝規範

PACKING CRITERION

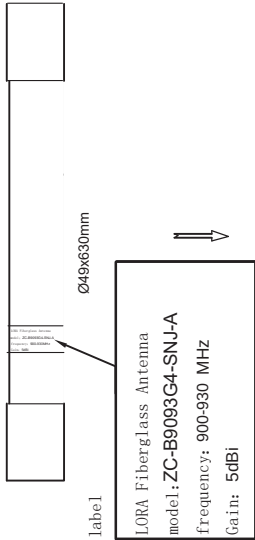
Date: 2021.12.27

Page: 1 of 1

|                                |                |
|--------------------------------|----------------|
| Part Number : ZC-B9093G4-SNJ-A | Revision : A   |
|                                | Customer : ALL |



二、Assemble fittings; Fix IPCS clip code and IPCS patch cord on paper tube with PE film.



三、Packing products, with labels facing up, and placing them on each floor 4PCS, put three layers, totally 16PCS/ box.

