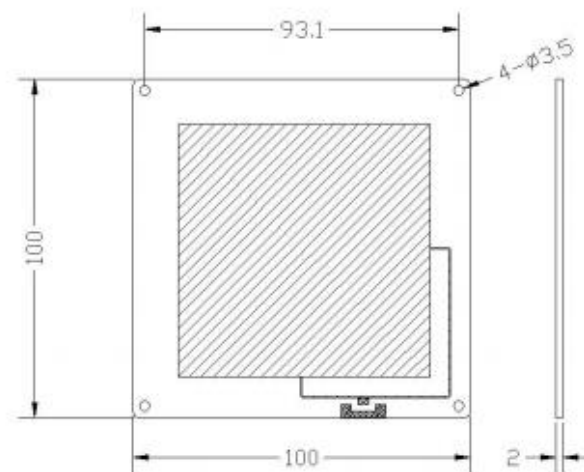


# UHF RFID Antenna Specification

**Shenzhen Chainway Information Technology Co., Ltd**

|                     |                       |
|---------------------|-----------------------|
| Part Number         | CUAPOCA               |
| ANT TYP             | Circular Polarization |
| ANT material        | FR4                   |
| Operating frequency | 902-928 MHz           |



## 1 ANT test equipment

### 1.1 Microwave chamber diagram

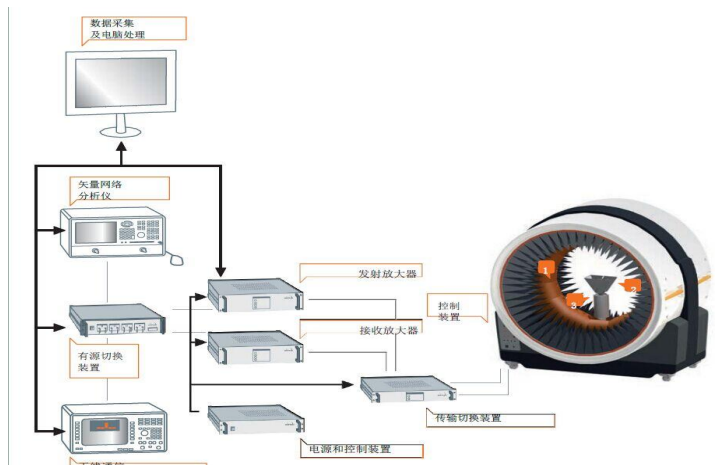


Figure 1 Wiring diagram of assembly test for microwave chamber system

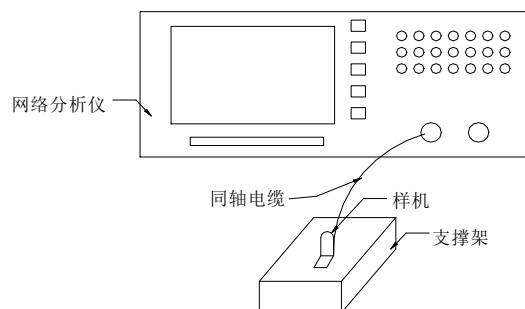


Figure 2 ANT static test connection method

## 2 Specifications

| Antenna (天线) |                         |                 |
|--------------|-------------------------|-----------------|
| 1            | Antenna model(天线规格)     | 100mm*100mm*2mm |
| 2            | Frequency Range(频率范围)   | 902-928MHz      |
| 3            | V.S.W.R (驻波比)           | 1.3 Max         |
| 4            | Bandwidth@10dB(10dB 带宽) | 20 MHz Min      |
| 5            | Gain(增益)                | 0dBi            |
| 6            | Impedance (阻抗)          | 50 Ω            |
| 7            | Polarization (极化方式)     | RHCP            |
| 8            | Working Temp (工作温度)     | -40℃ ~+85℃      |
| 9            | Storage Temp (贮存温度)     | -40℃ ~+85℃      |

### 3 Antenna test result

#### 3.1 Gain&Efficiency

| Gain&Efficiency      |                 |                  |                      |                 |                  |
|----------------------|-----------------|------------------|----------------------|-----------------|------------------|
| Frequency<br>频率(MHz) | Gain<br>增益(dBi) | Efficiency<br>效率 | Frequency<br>频率(MHz) | Gain<br>增益(dBi) | Efficiency<br>效率 |
| 902.75               | -0.17           | 68.32%           | 915.25               | 0               | 68.86%           |
| 903.25               | -0.17           | 68.32%           | 915.75               | 0               | 68.86%           |
| 903.75               | -0.17           | 68.35%           | 916.25               | 0               | 68.86%           |
| 904.25               | -0.16           | 68.35%           | 916.75               | 0               | 68.86%           |
| 904.75               | -0.16           | 68.42%           | 917.75               | 0               | 68.86%           |
| 905.25               | -0.16           | 68.42%           | 918.25               | 0               | 68.82%           |
| 905.75               | -0.16           | 68.46%           | 918.75               | 0               | 68.82%           |
| 906.25               | -0.15           | 68.47%           | 919.25               | -0.1            | 68.81%           |
| 906.75               | -0.15           | 68.48%           | 919.75               | -0.1            | 68.81%           |
| 907.25               | -0.15           | 68.50%           | 920.25               | -0.12           | 68.80%           |
| 907.75               | -0.15           | 68.53%           | 920.75               | -0.12           | 68.80%           |
| 908.25               | -0.14           | 68.55%           | 921.25               | -0.13           | 68.76%           |
| 908.75               | -0.14           | 68.56%           | 921.75               | -0.13           | 68.76%           |
| 909.25               | -0.14           | 68.60%           | 922.25               | -0.14           | 68.69%           |
| 909.75               | -0.14           | 68.60%           | 922.75               | -0.14           | 68.69%           |
| 910.25               | -0.13           | 68.65%           | 923.25               | -0.14           | 68.62%           |
| 910.75               | -0.13           | 68.65%           | 923.75               | -0.15           | 68.62%           |
| 911.25               | -0.12           | 68.71%           | 924.25               | -0.15           | 68.56%           |
| 911.75               | -0.12           | 68.72%           | 924.75               | -0.15           | 68.56%           |
| 912.25               | -0.12           | 68.74%           | 925.25               | -0.15           | 68.50%           |
| 912.75               | -0.12           | 68.75%           | 925.75               | -0.16           | 68.50%           |
| 913.25               | -0.10           | 68.80%           | 926.25               | -0.16           | 68.42%           |
| 913.75               | -0.1            | 68.80%           | 926.75               | -0.16           | 68.42%           |
| 914.25               | 0               | 68.84%           | 927.25               | -0.16           | 68.40%           |
| 914.75               | 0               | 68.84%           |                      |                 |                  |

## 3.2 Radiation

