

RFID



RFID Dual Feed Point Ceramic Antenna Specification Sheet

1. Product introduction

The 3C60 ceramic antenna is a built-in UHF antenna suitable for UHF band RFID handheld terminals, flat panels, printing terminals and other occasions. This product adopts a circular polarization design with double feed points, which has the characteristics of small volume, high gain and low VSWR.

2. Product pictures



1. Product characteristics

- ω High performance: It has the characteristics of high gain and low standing wave
- ω Miniaturization: Compact in form and excellent in material
- ω Reliability: Anti-aging, long-lasting
- ω Application scenarios: RFID handheld terminals, tablets, printing terminals and other portable occasion applications

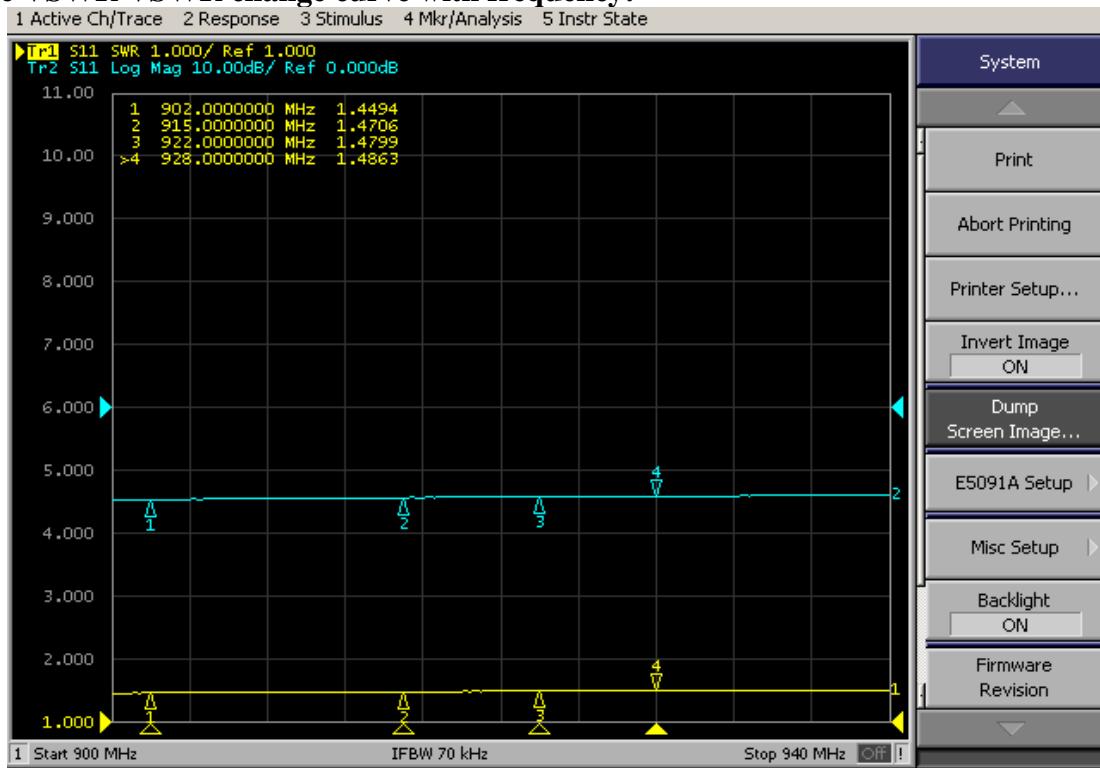
—、1. Product parameters

2.

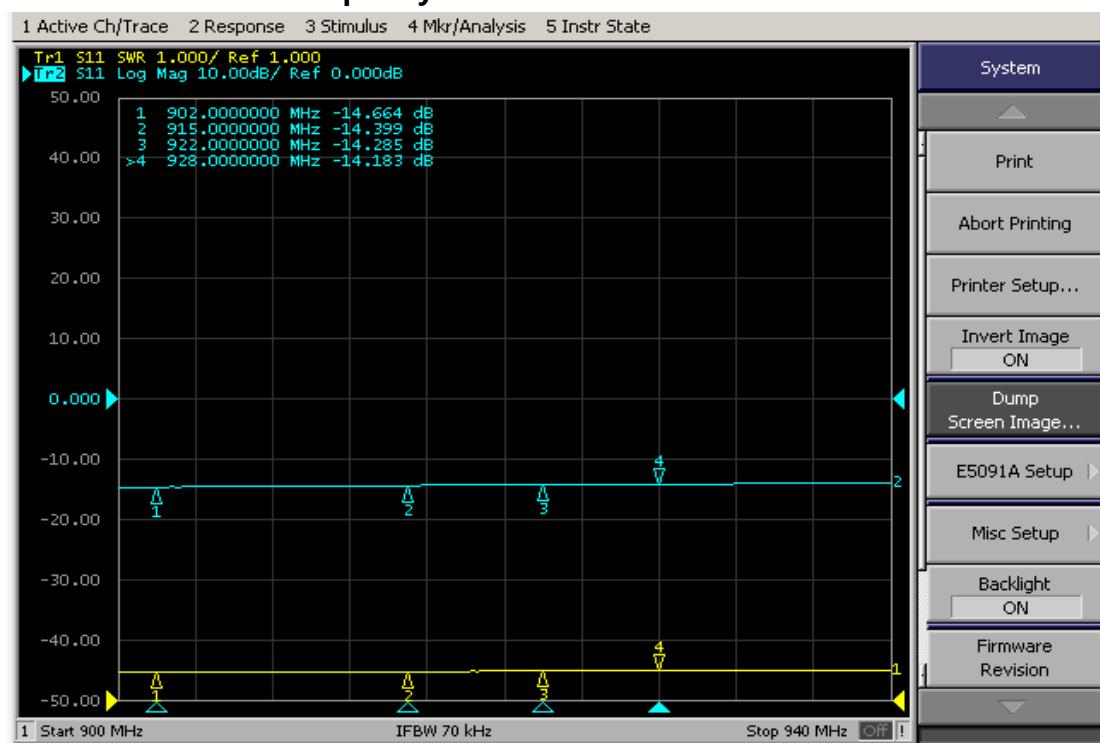
| Functional parameters | |
|---|--|
| RFID protocol | EPC Class1 Gen2, ISO18000-6C |
| frequency | 902MHz ~ 928MHz |
| Polarization mode | Circular polarization |
| Gain (dBi) | 3.02dBi |
| Impedance (Ω) | 50 Ω |
| Voltage Standing Wave Ratio (VSWR) | ≤ 1.3 |
| Physical parameters | |
| Product Size (mm) | 70 mm×70 mm×8mm (ceramic body 60*60mm×4mm) |
| Weight (net) | 86g |
| Joint type | SMA (MMCX customizable) |
| Environmental specifications | |
| Operating Temperature (°C) | -40°C ~ + 85°C |

Antenna characteristic curve

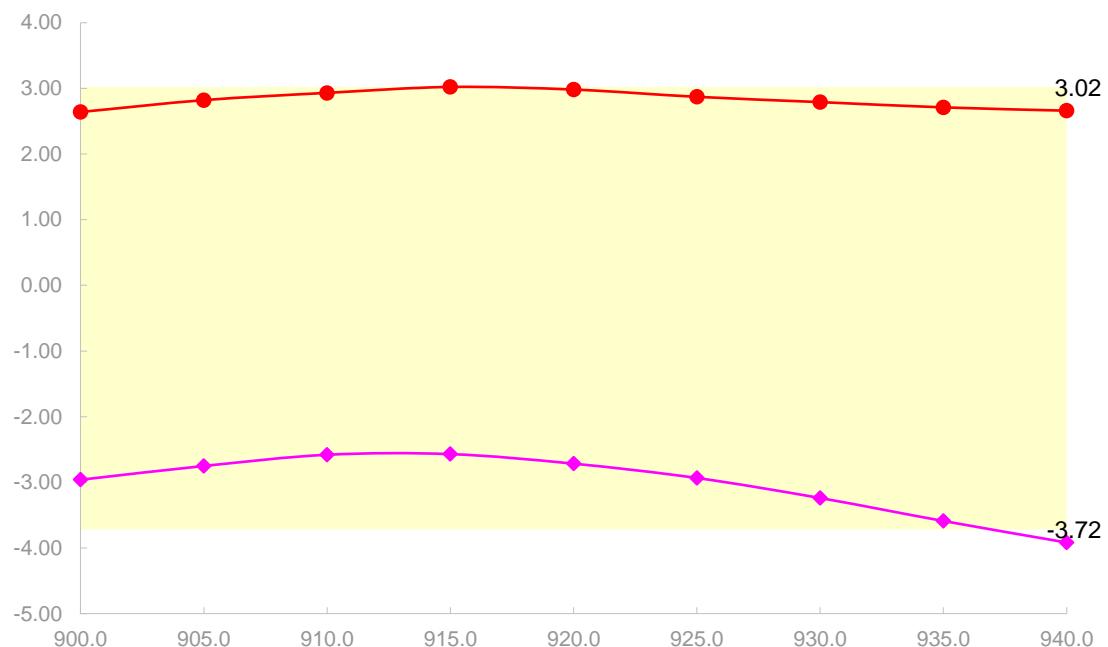
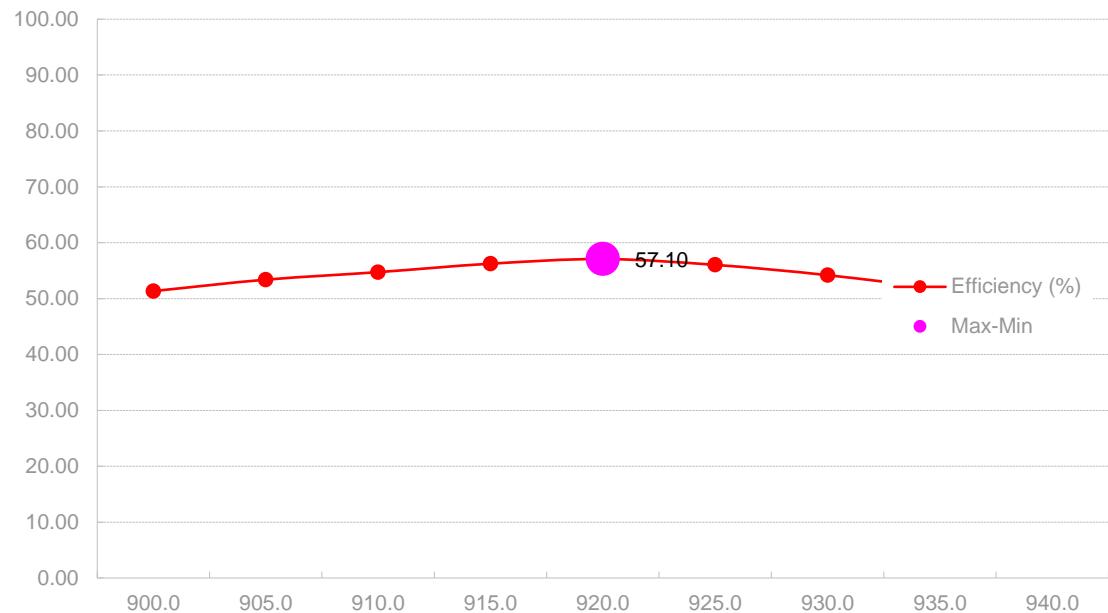
1. Voltage VSWR VSWR change curve with frequency:



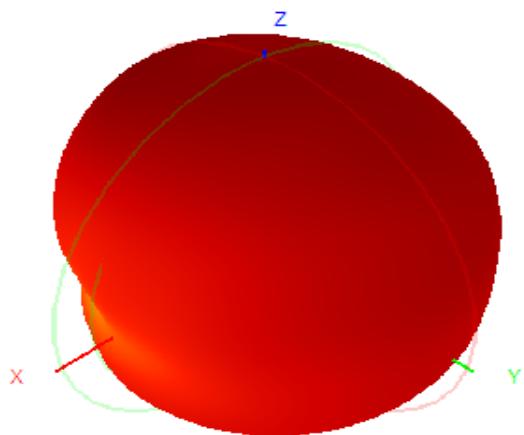
2. Return loss S11 curve with frequency:



3 Antenna characteristic curve measured in the darkroom



| Passive Test 900MHz | | | | | | | | | | | |
|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Fre.(MHz) | 900 | 910 | 920 | 930 | 940 | 950 | 960 | 970 | 980 | 990 | 1000 |
| Effi(%) | 55.51 | 56.93 | 57.10 | 55.50 | 56.52 | 56.09 | 55.52 | 56.06 | 56.11 | 55.47 | 56.83 |
| Gain(dBi) | 2.84 | 2.88 | 3.02 | 2.94 | 2.96 | 2.92 | 2.91 | 2.94 | 2.83 | 2.85 | 2.85 |



六、 Dimensional structure drawing

