

## SPECIFICATION

Part No. : **PC23.09.0100A**

Product Name : **Internal Circular PCB Antenna**  
AMPS/GSM/PCS/DCS Cellular PCB Antenna  
100mm 1.13 MMCX(M)RA

Features : Diameter 42mm\*Height 1.6mm

Photo:



## 1. Introduction

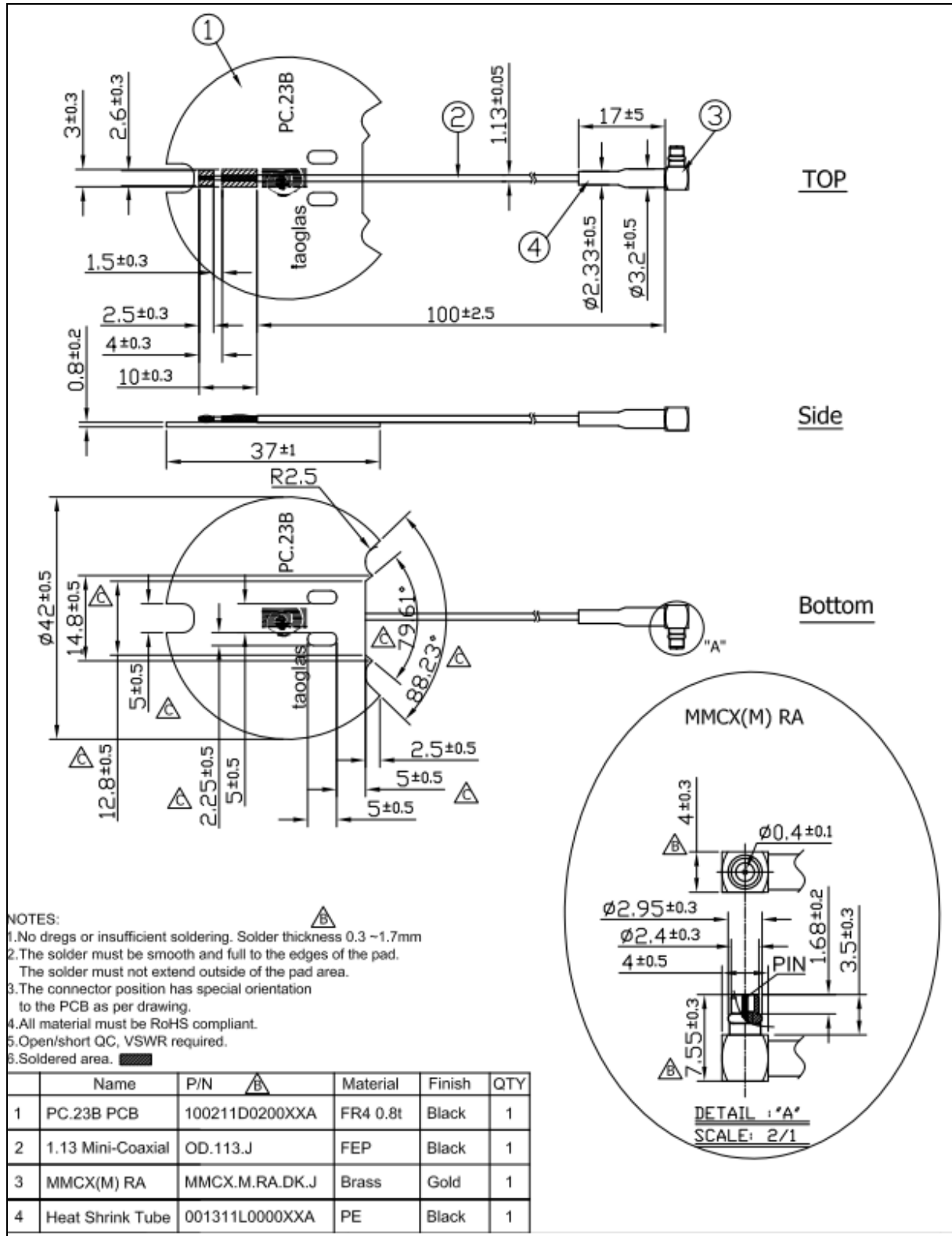
The PC23 Internal PCB Antenna is a circular Quad-band GSM antenna for incorporation antennas and transceiver modules worldwide. Omni-directional high gain across all bands ensures constant reception and transmission. Cables and connectors are fully customizable.

## 2. Typical Antenna Performance in free space

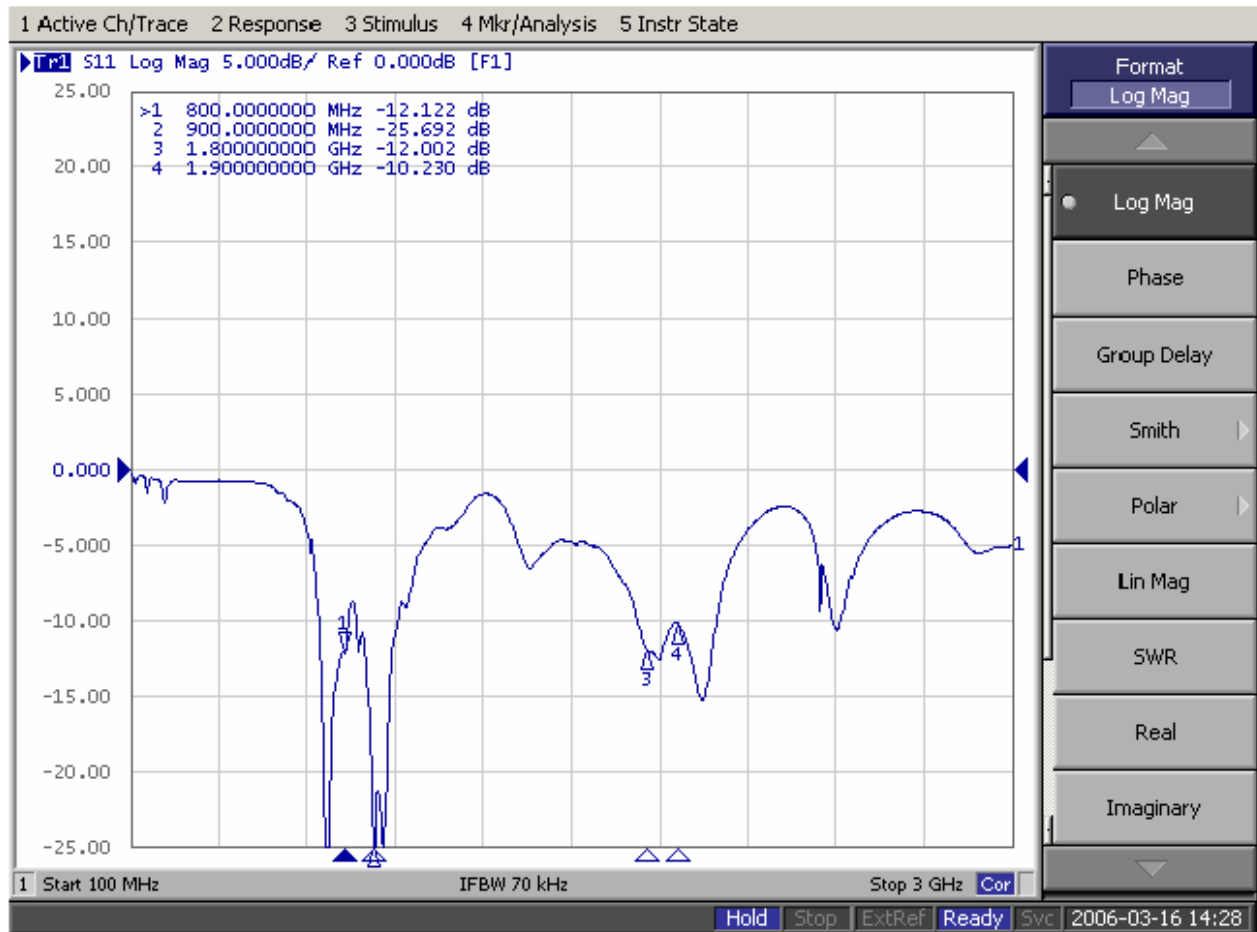
| Specifications         |                                                    |         |           |           |
|------------------------|----------------------------------------------------|---------|-----------|-----------|
| ELECTRICAL             |                                                    |         |           |           |
|                        | AMPS                                               | GSM     | PCS       | DCS       |
| Band                   | 824-896                                            | 880-960 | 1850-1990 | 1710-1880 |
| Return Loss            | -12 dB                                             | -25 dB  | -12 dB    | -10 dB    |
| Gain                   | Average 0 dBi                                      |         |           |           |
| Polarization           | Linear                                             |         |           |           |
| Impedance              | 50 ohms                                            |         |           |           |
| Input Power            | 10 watts                                           |         |           |           |
| Input Connection       | Coaxial Cable - RG174 Standard, Fully customizable |         |           |           |
| VSWR (Min performance) | <2.0:1                                             |         |           |           |

**\*note: specifications may be subject to change**

### 3. Outline Drawing

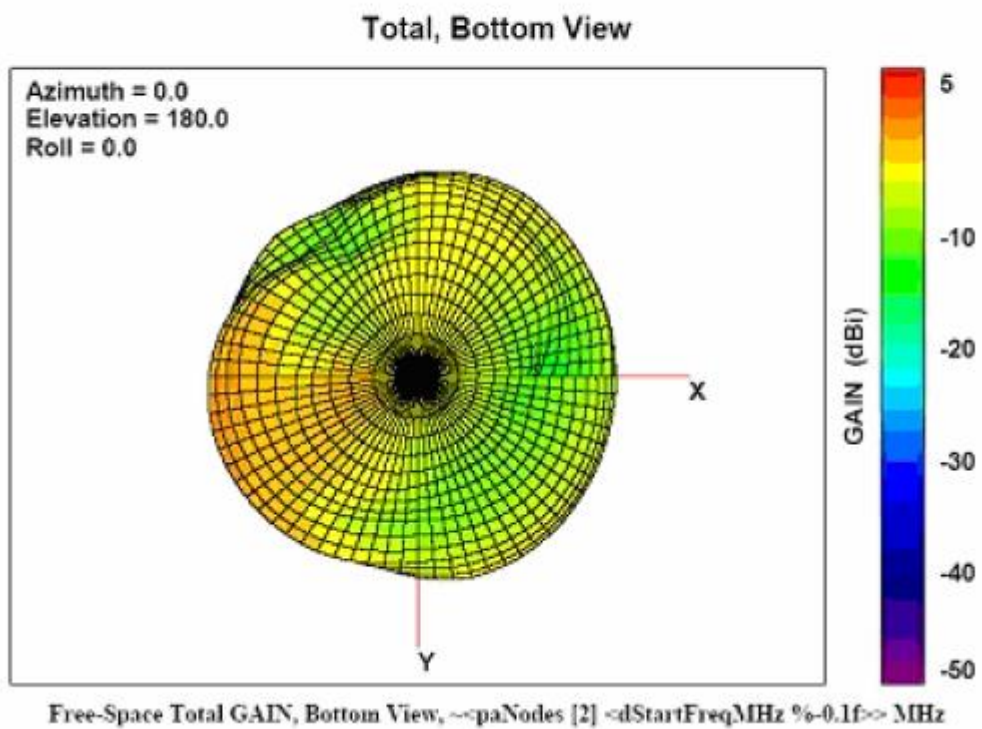


## 4. S11 Magnitude

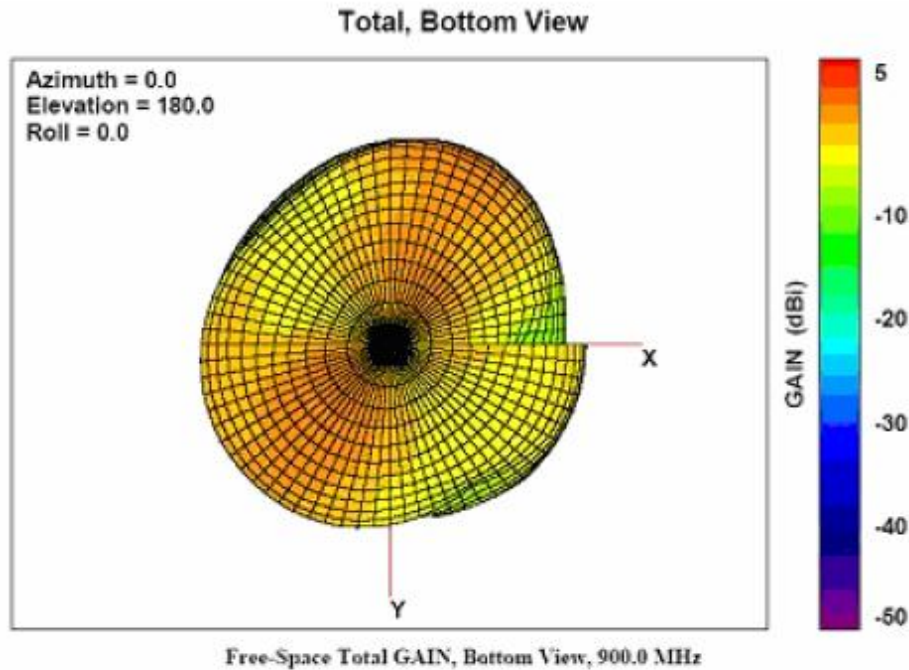


## 5. Radiation Patterns

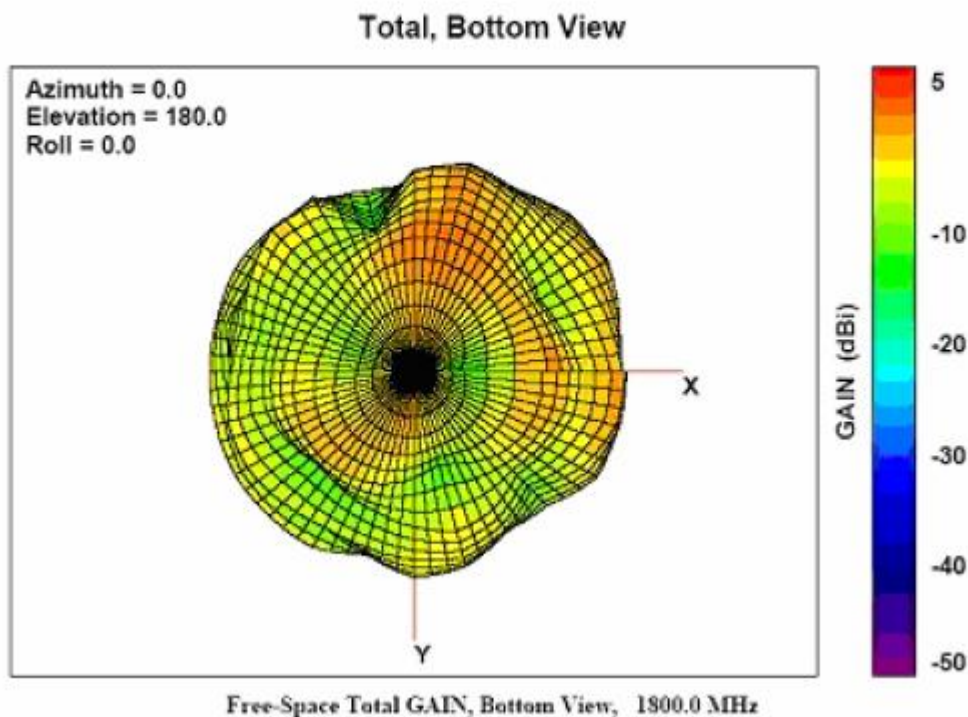
### 800 MHz – 3D Radiation Pattern



## 900 MHz – 3D Radiation Pattern



## 1800 MHz – 3D Radiation Pattern



## 1900 MHz – 3D Radiation Pattern

