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

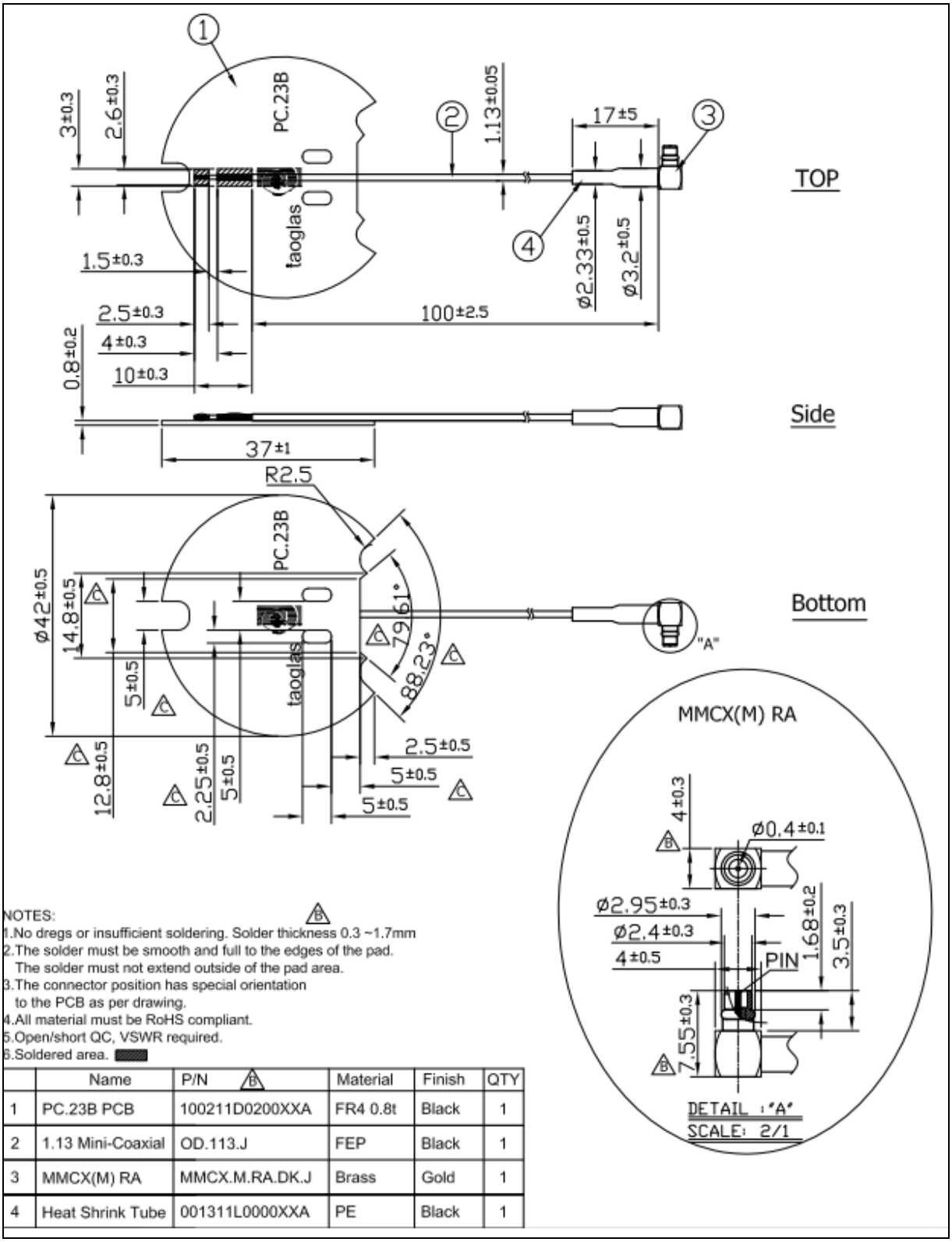
The PC23 Internal PCB Antenna is a circular Quad-band GSM antenna for incorporation antennas and transceiver modules worldwide. Omni-directional high gain across all bands ensures constant reception and transmission. Cables and connectors are fully customizable.

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

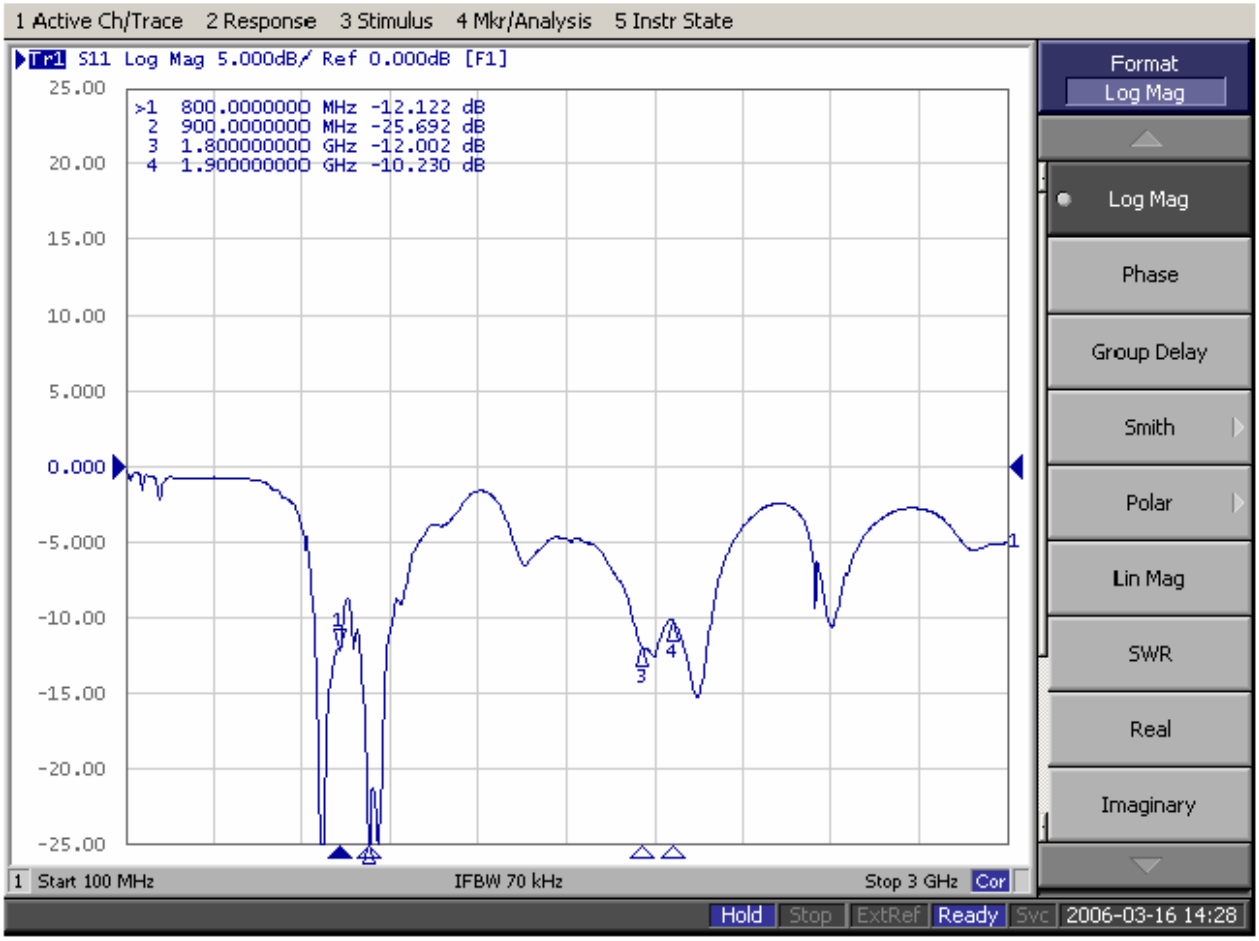
3. Outline Drawing



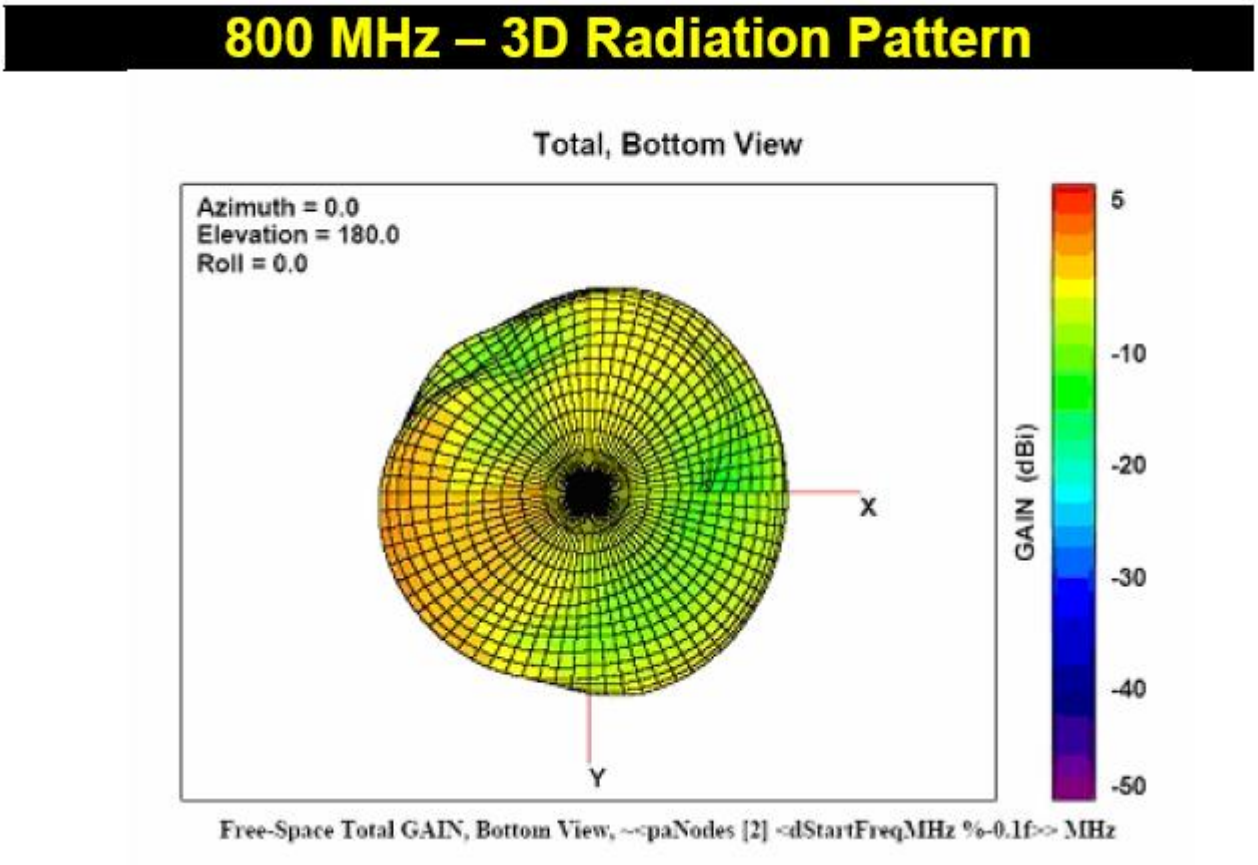
NOTES:
1.No dregs or insufficient soldering. Solder thickness 0.3 ~1.7mm
2.The solder must be smooth and full to the edges of the pad.
The solder must not extend outside of the pad area.
3.The connector position has special orientation
to the PCB as per drawing.
4.All material must be RoHS compliant.
5.Open/short QC, VSWR required.
6.Soldered area.

	Name	P/N	Material	Finish	QTY
1	PC.23B PCB	100211D0200XXA	FR4 0.8t	Black	1
2	1.13 Mini-Coaxial	OD.113.J	FEP	Black	1
3	MMCX(M) RA	MMCX.M.RA.DK.J	Brass	Gold	1
4	Heat Shrink Tube	001311L0000XXA	PE	Black	1

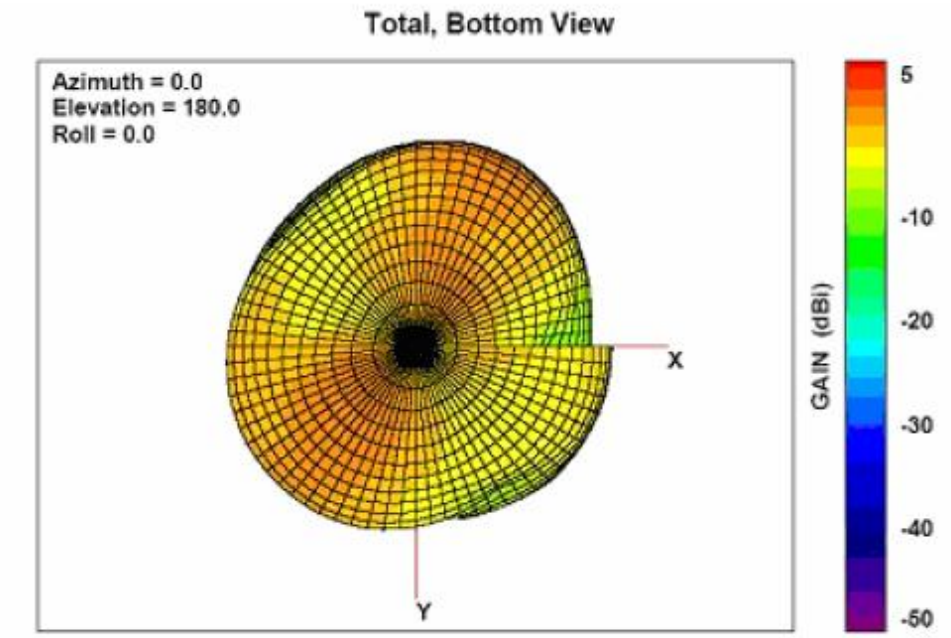
4. S11 Magnitude



5. Radiation Patterns

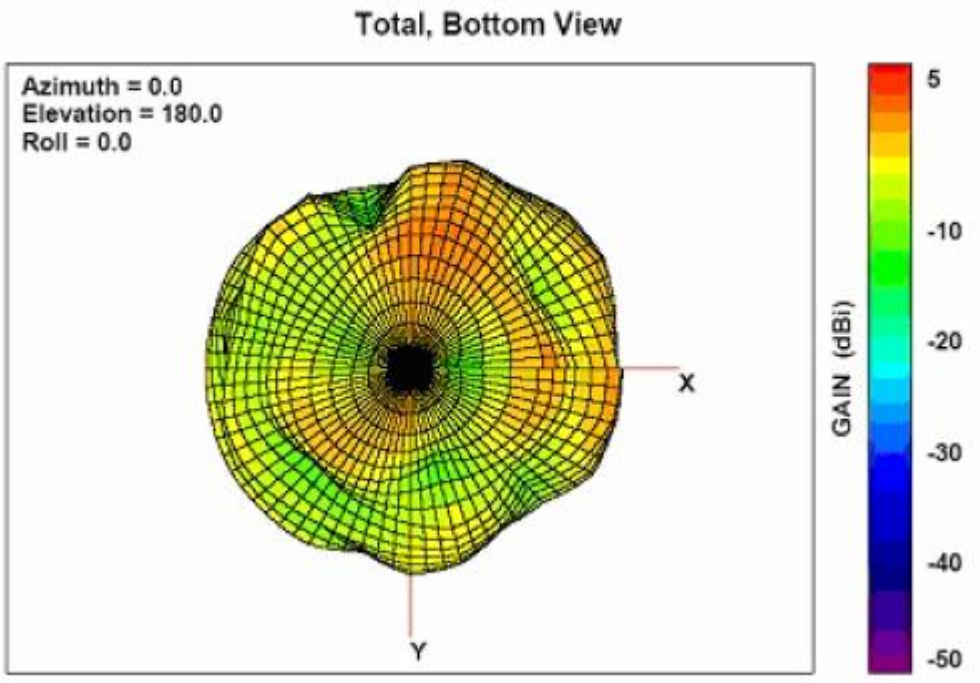


900 MHz – 3D Radiation Pattern



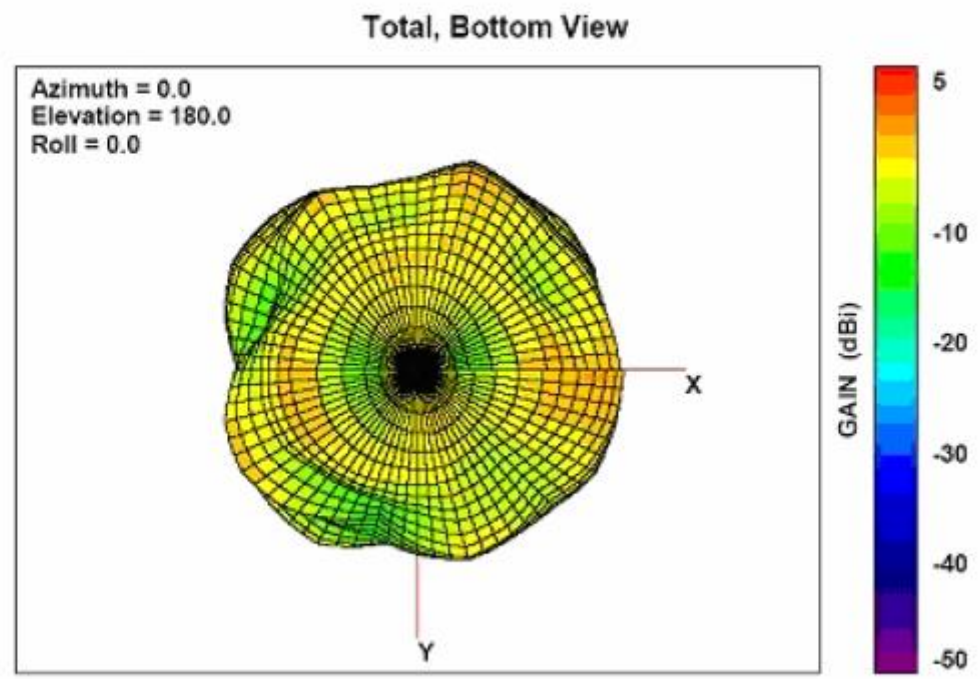
Free-Space Total GAIN, Bottom View, 900.0 MHz

1800 MHz – 3D Radiation Pattern



Free-Space Total GAIN, Bottom View, 1800.0 MHz

1900 MHz – 3D Radiation Pattern



Free-Space Total GAIN, Bottom View, 1900.0 MHz

Mouser Electronics

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