

SPECIFICATION

Part No.	:	PC30.09.0100A
Product Name	:	FR4 Penta-band GSM Antenna 100mm 1.13 coax MMCX(M)RA
Feature	:	High antenna RF efficiency RoHS compliant





I. Introduction

PC30 is a custom-designed FR4 quad-band GSM antenna for a tracking device. This RoHS compliant antenna has high RF efficiency with the tracking device to meet PTCRB requirement.

II. Specification (Free Space)

Specifications							
Communication System	Penta-band Cellular						
	AMPS	GSM	DCS	PCS	UMTS		
Frequency (MHz)	824 ~ 896	880~960	1710~1880	1850~1990	1710~2170		
Average Efficiency	17%	38%	60%	70%	68%		
Gain	2dBi						
Impedance	50 Ohm						
Radiation Pattern	Omni-directional						
Polarization	Linear						
PCB	FR4 74.70 x 8.20 x 0.8 mm						
Connector	MMCX(M)RA						
Cable	Ø1.13						
Cable Length	100 mm						
Operation Temperature	-40°C ~ +85°C						
Storage Temperature	-40°C ~ +85°C						

Please note that Cables and Connectors are Customizable, customized solution will have an MOQ



III. Electrical Property

III.1 Test Setup

Satimo SG64 3D-chamber is used for radiation and efficiency test. For the free space test, a Styrofoam is used to fix the antenna in the testing set.



Antenna setup and Satimo SG64 3D-chamber.



III.2 Radiation Pattern

The radiation pattern of PC.30 in free space as the above test setup is --



Radiation pattern of x-y plane



Radiation pattern of x-z plane





III.3 Efficiency



III.4 Return Loss

A piece of Styrofoam is use to hold PC.30 at least 30cm away from any metal surrounding objects. Agilent E5071B Network Analyzer is used for the return loss measurement.







IV. Drawing



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