

Specification

Part No. : **PC31.07.0050A**

Product Name : Dual-Band ISM 868/915MHz FR4 antenna with 50mm

Ø1.13 IPEX MHF (U.FL comp)

Feature : High Efficiency FR4 Antenna

90mm*55mm*0.8mm

ISM 868/915MHz

RoHS Compliant





1. Introduction

This high gain, low profile, PCB antenna and mini coaxial cable is an 868MHz ~ 928MHz ISM dual-band Omni-directional antenna intended for use in 868MHz and 915MHz applications. It is optimized for free space to be tested as a performance benchmark. The high efficiency dual-band characteristics allow the client device to be used in countries with different regulatory bands. Cable and optional double-sided adhesive foam mounting allows flexible placement. Further performance enhancement can be done through tuning upon receipt of client's housing and board.

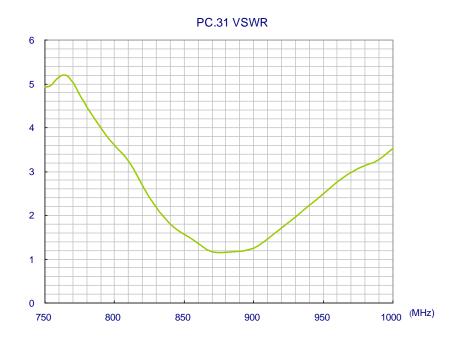
2. Specification

ELECTRICAL					
Communication System	ISM 868	ISM 915			
Frequency (MHz)	868 ~ 870 902 ~ 928				
Average efficiency	0.87	0.77			
Average gain	2.3dBi	1.6dBi			
Impedance	50 Ohm				
Polarization	Linear				
MECHANICAL					
Antenna Length	90*55*0.8 mm				
Connector	IPEX MHF				
ENVIRONMENTAL					
Operation Temperature	-40°C to 85°C				
Storage Temperature	-40°C to 85°C				

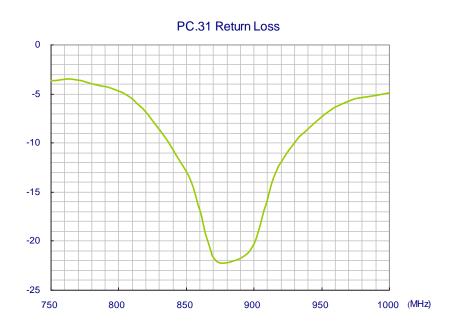


3. Antenna Characteristics

3.1. VSWR

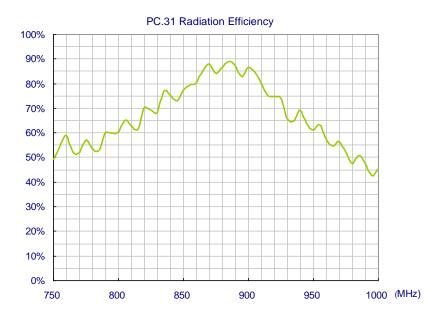


3.2. Return Loss





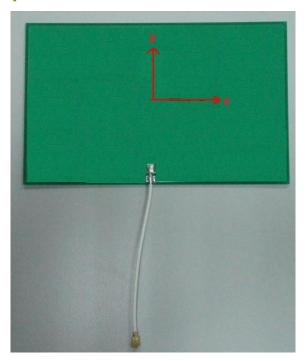
3.3. Efficiency





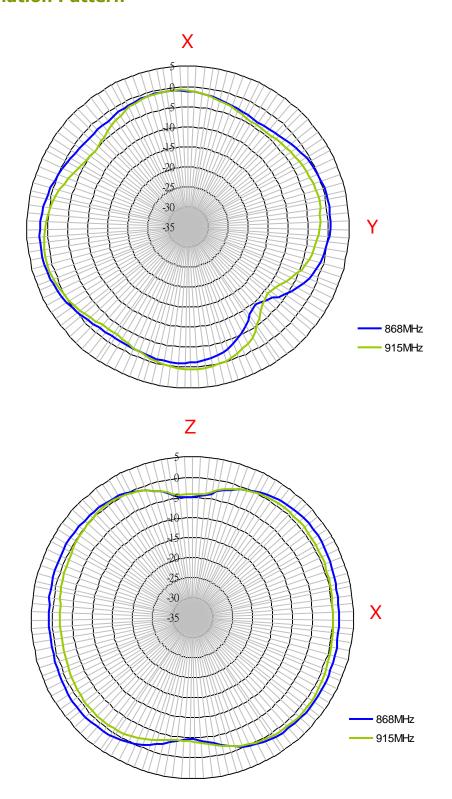
4. Antenna Radiation Patterns

4.1. Antenna Setup



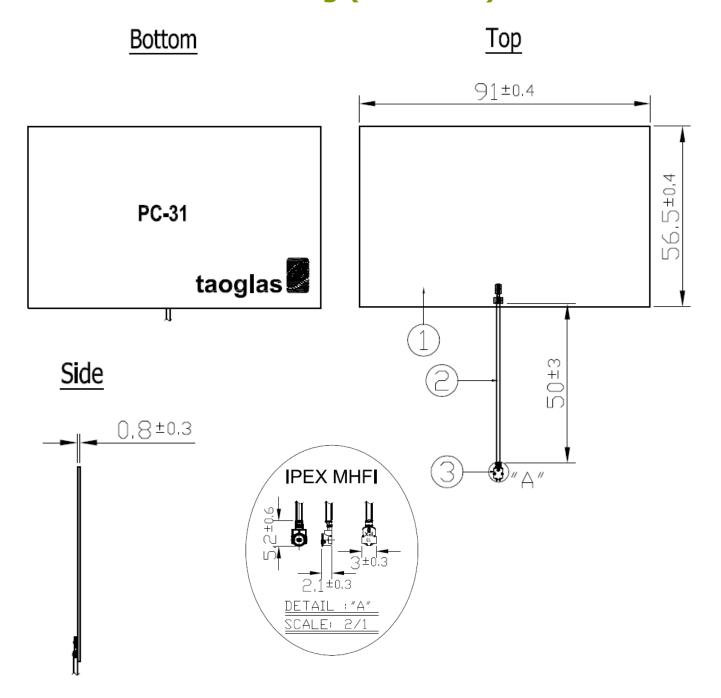


4.2. Radiation Pattern





5. Mechanical Drawing (Unit: mm)



	Name	P/N	Material	FInIsh	QTY
1	PC31 PCB	100212L050005A	FR4 0.8t	Green	1
2	1.13 Coaxial Cable	300313A000002A	FEP	White	1
3	IPEX MHFI (U.FL)	204111G000002A	Brass	Gold	1



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