



SPECIFICATION

Part No. : PC142.54.0500A

Product Name : WiFi Dual band Antenna for Innolux X-ray panel

Feature : For WiFi dual band applications

RoHS compliant





Revised History

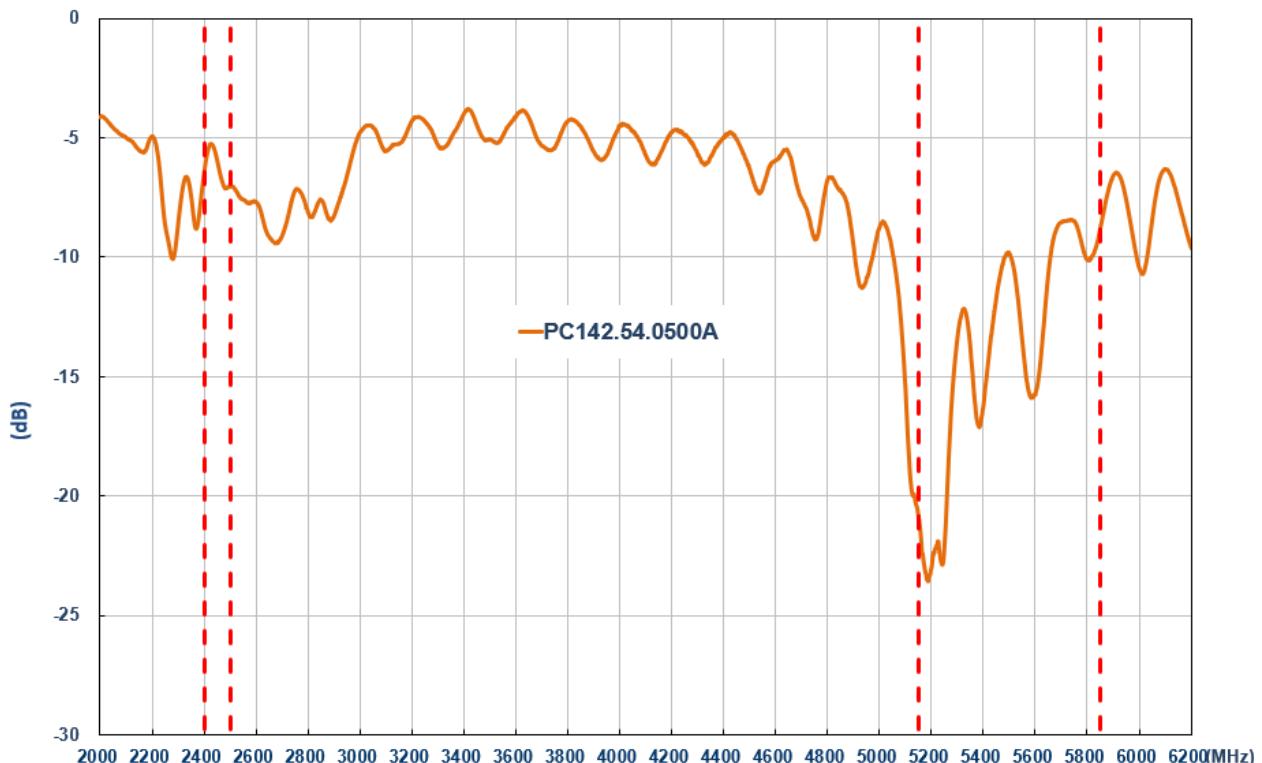
Date	Version	Revised Record
2018/6/12	A	Product Specification <Release>
2018/7/24	B	Amend cable & colour title <Release>

1. Specification

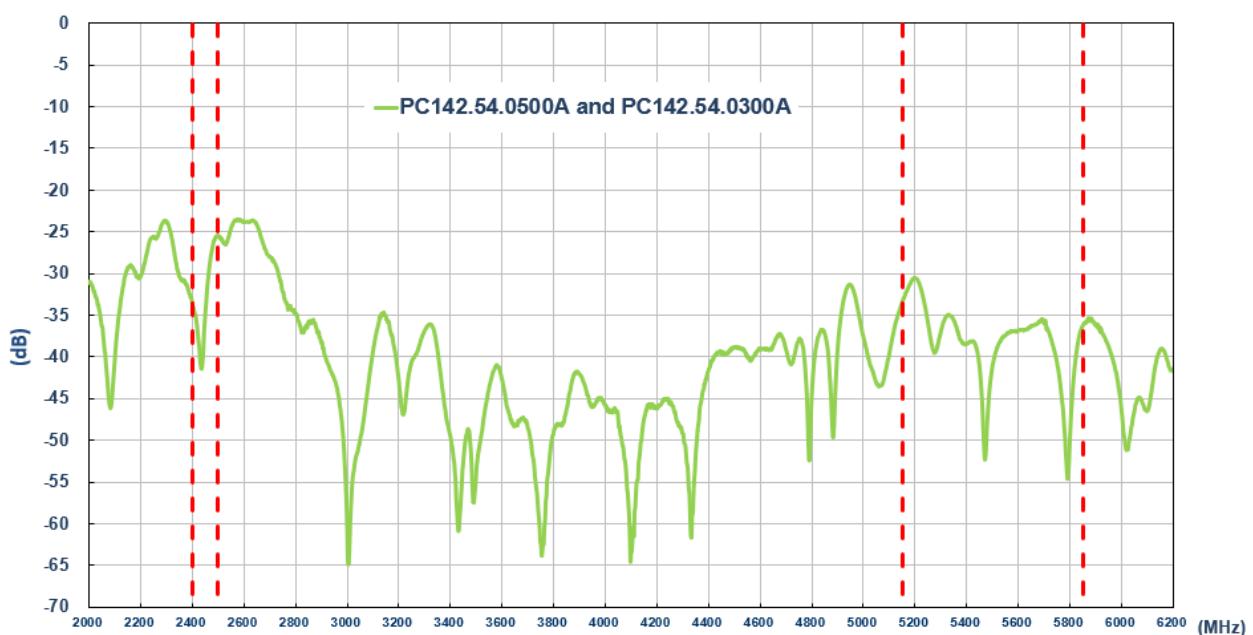
ELECTRICAL		
Frequency (MHz)	2400~2500	5150~5850
Efficiency (%)		
PC142.54.0500A	6.9	9.4
Average Gain (dBi)		
PC142.54.0500A	-4.5	-2.5
Peak Gain (dBi)		
PC142.54.0500A	-11.6	-10.3
Impedance	50Ω	
Polarization	Linear	
Radiation Pattern	Omni	
Input Power	1W	
MECHANICAL		
Dimensions	PC/ABS	
Antenna Material	FR4	
Cable Length	Black 1.13 coaxial cable 500mm	
Connector	IPEX-4	
ENVIRONMENTAL		
Temperature Range	-40°C to 85°C	
Humidity	Non-condensing 65°C 95% RH	

2. Antenna Characteristics

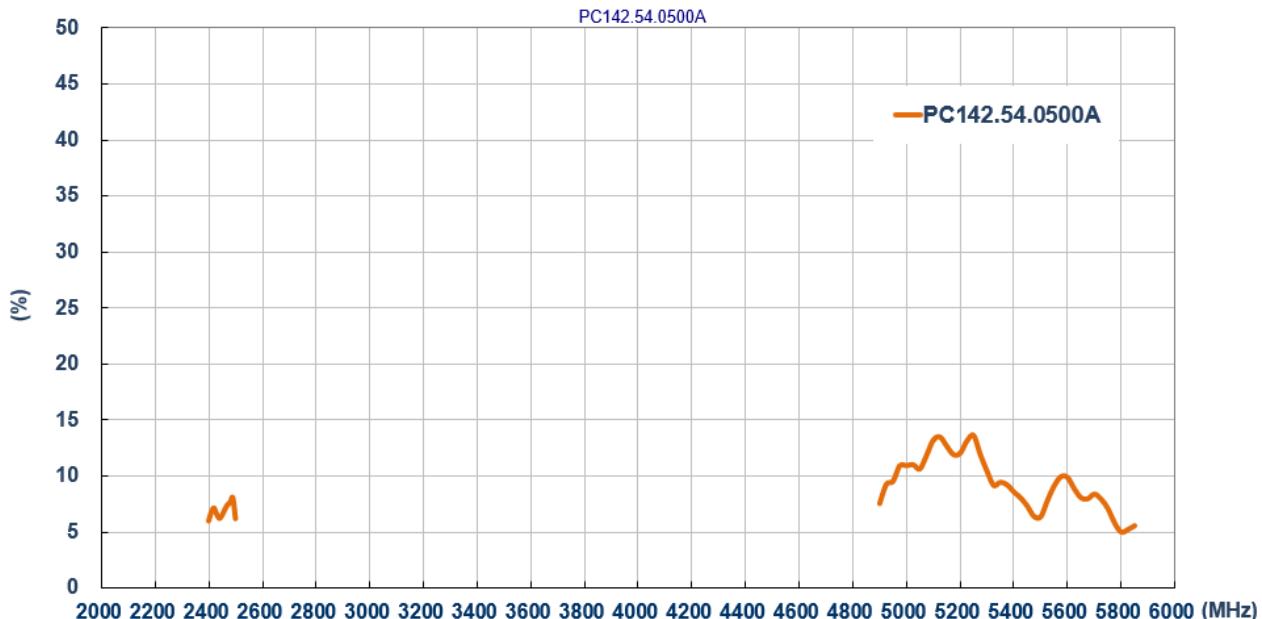
- **Return Loss**



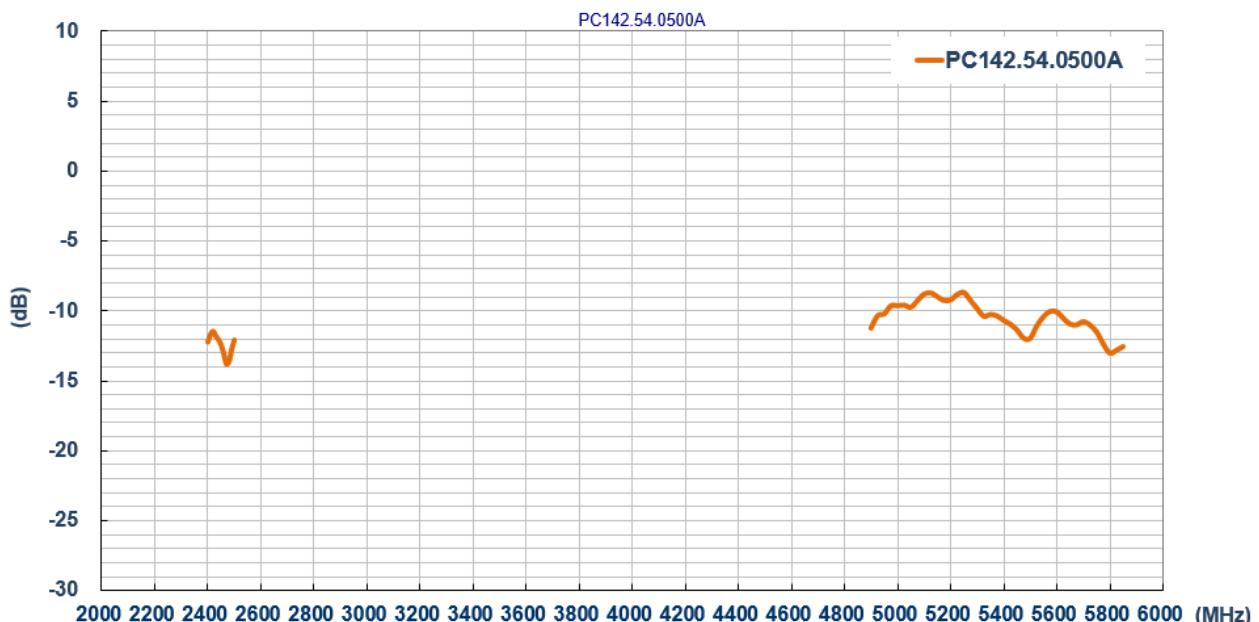
- **Isolation**



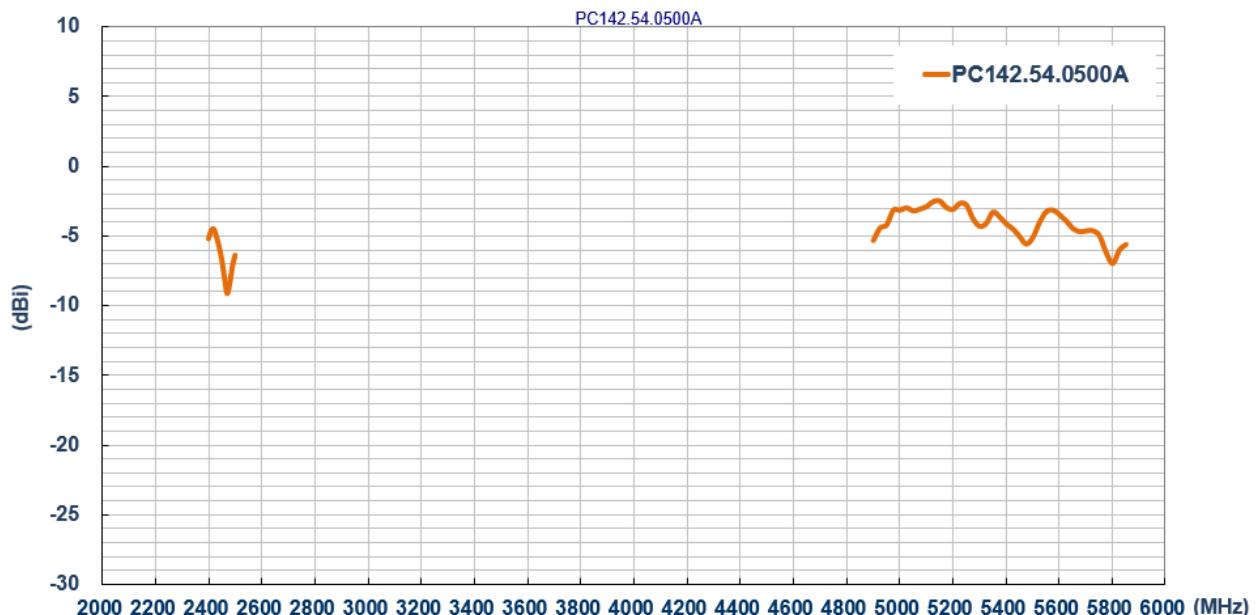
- **Efficiency (%)**



- **Average Gain**

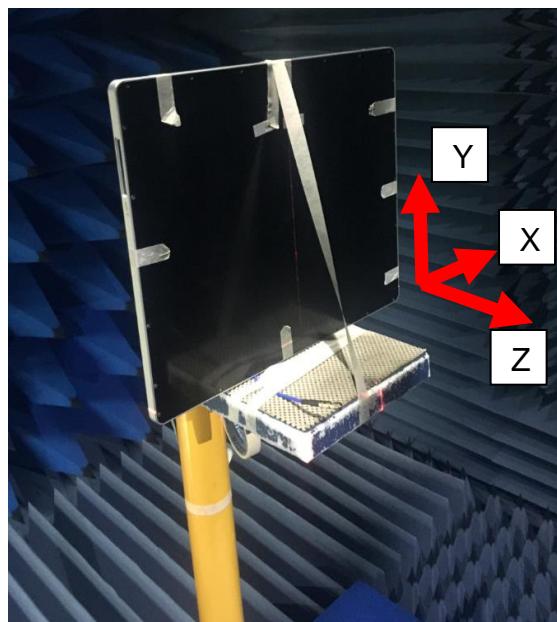


● Peak Gain



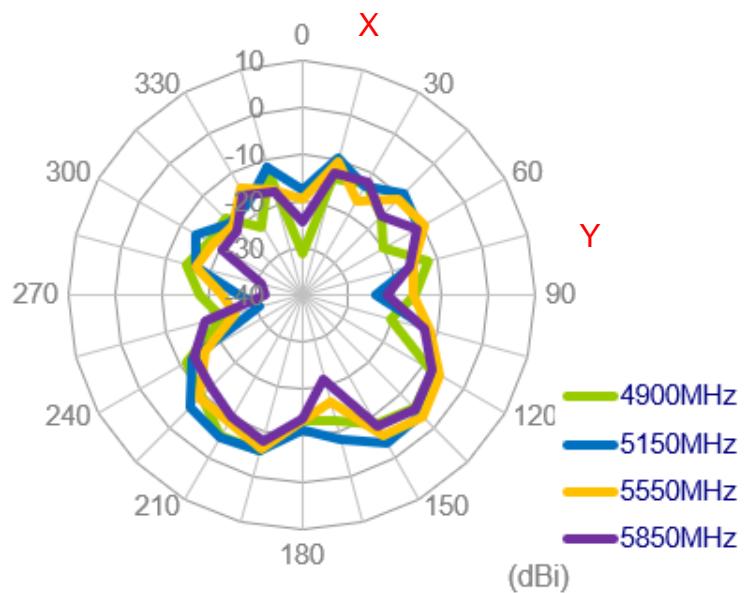
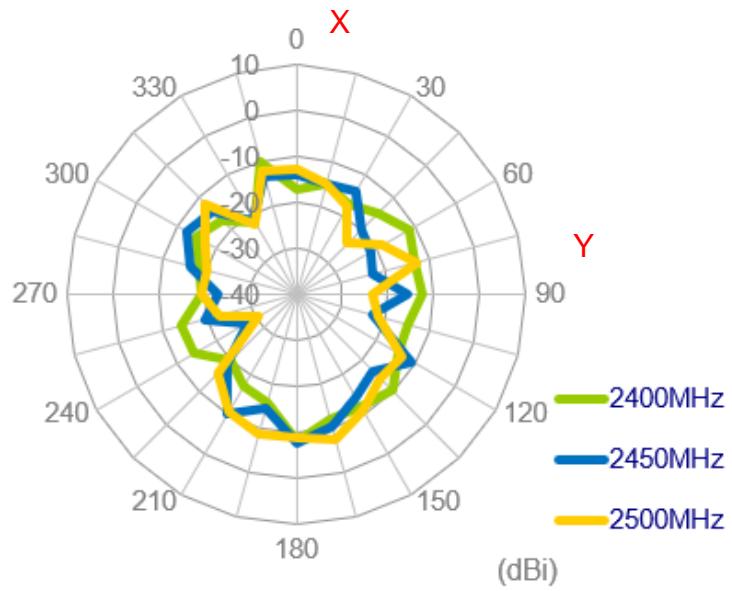
3. Antenna Radiation Patterns

4.1 Antenna setup

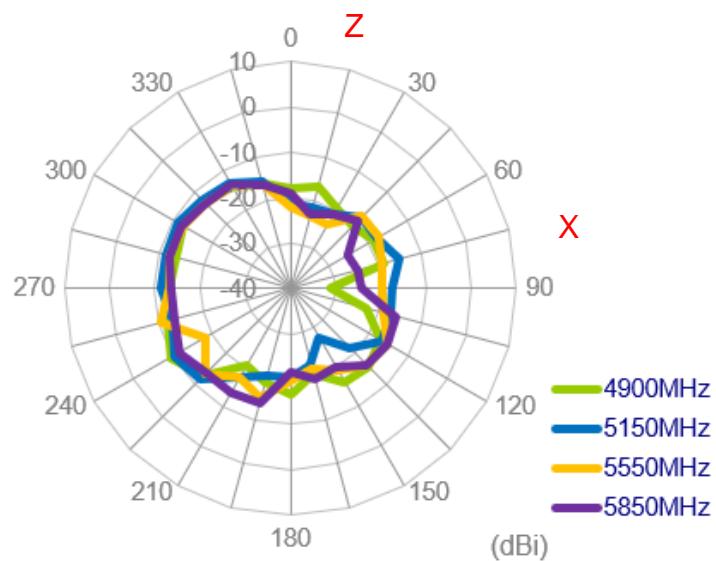
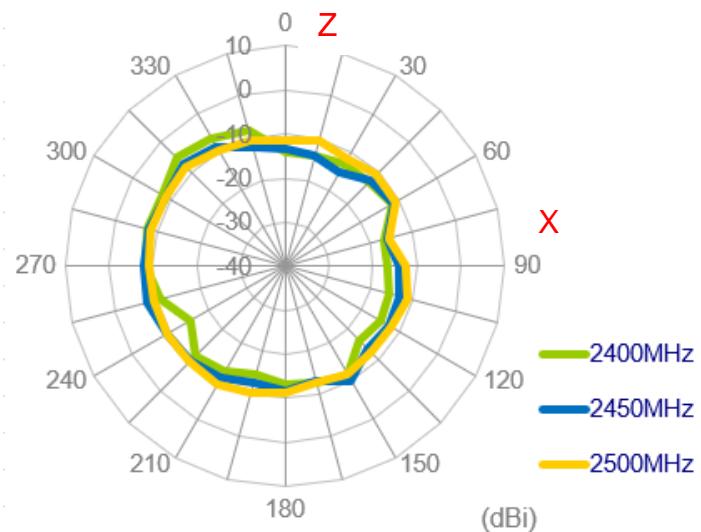


4.2 2D Radiation patterns

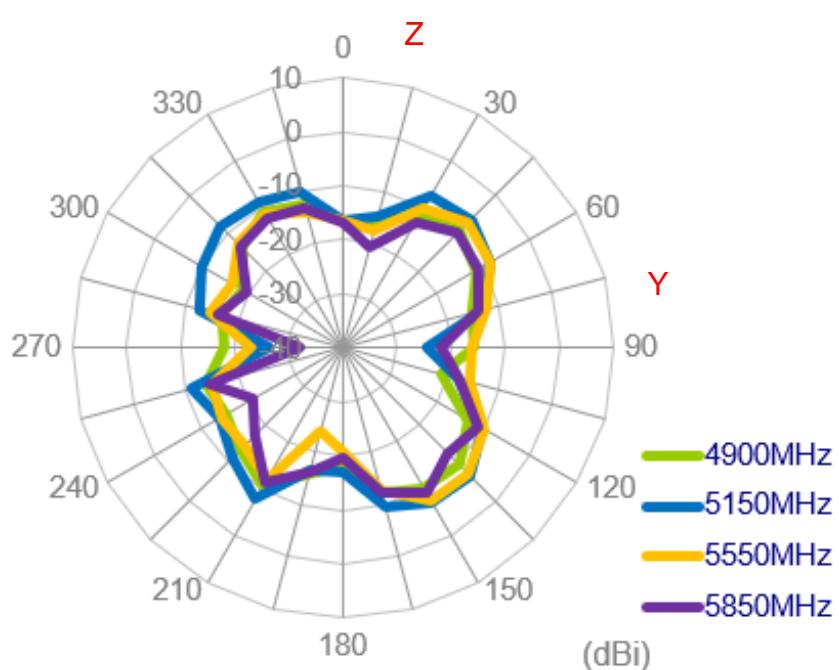
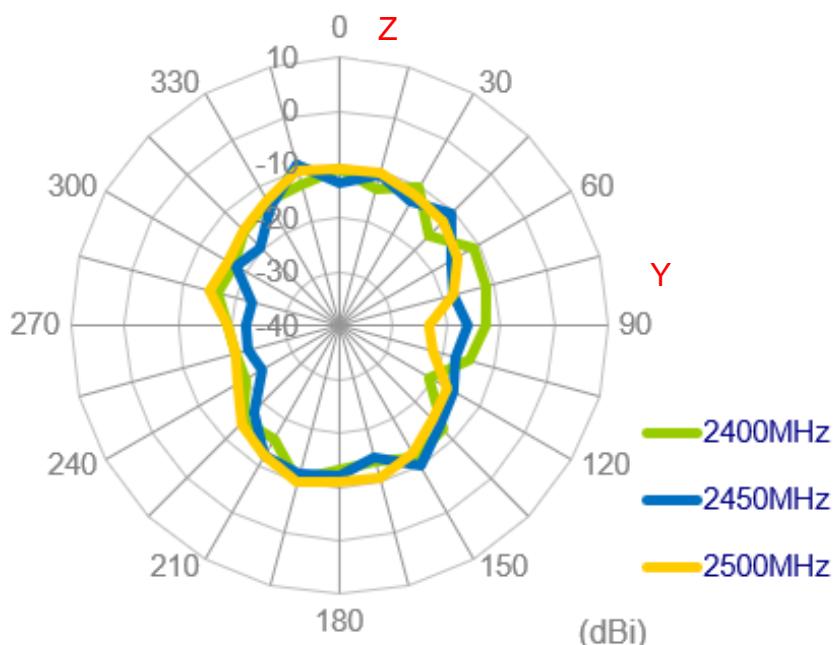
XY Plane



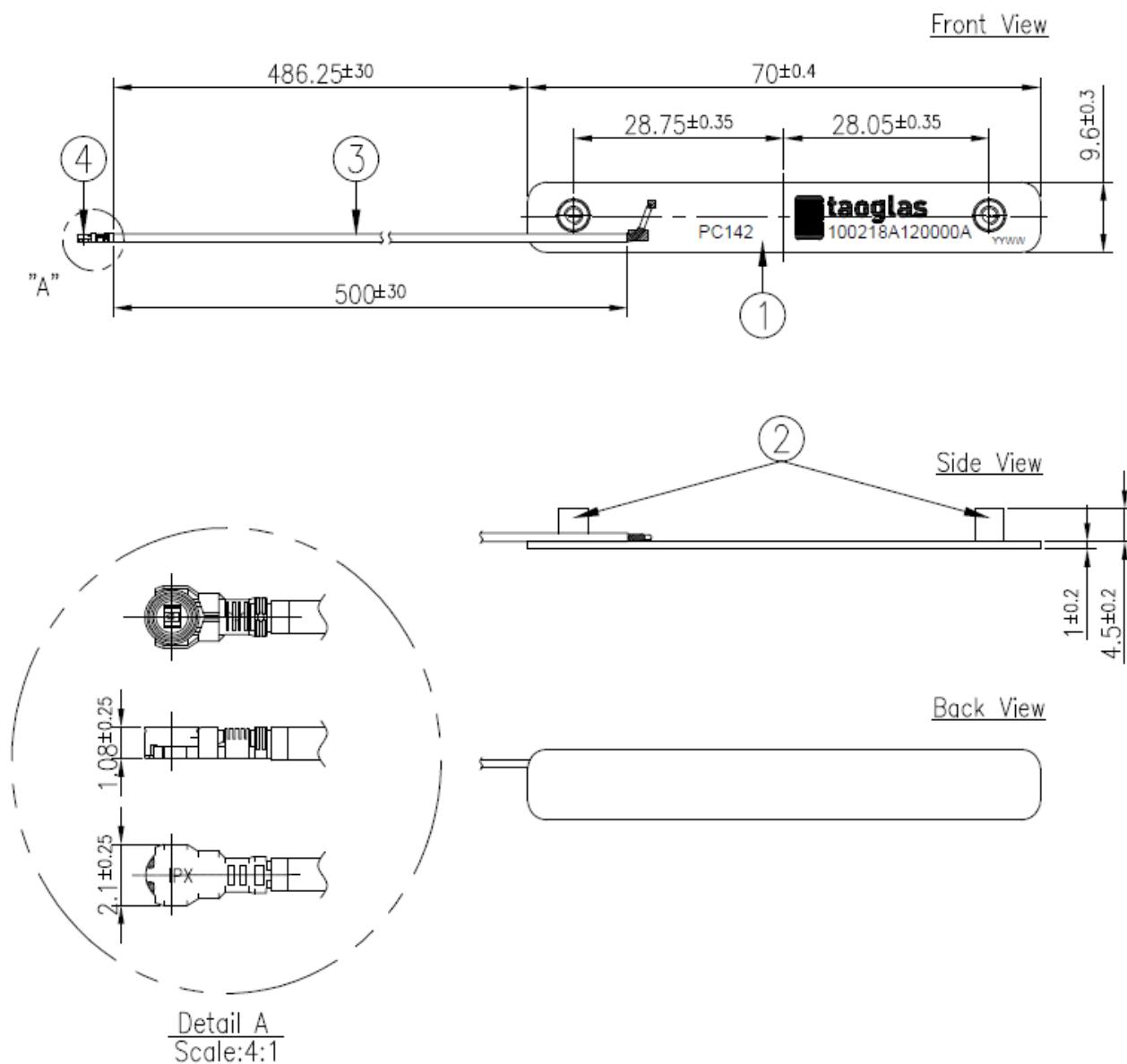
ZX Plane



ZY Plane



4. Mechanical Drawing (Unit: mm)



	Name	P/N	Material	Finish	QTY
1	PC142 PCB	100218A120000A	Composite 1.0t	Black	1
2	Nut M2.5x0.45Px4.5H	000418E020000A	Brass	Sn Plated	2
3	1.13 Coaxial Cable	300215C020000A	FEP	Black	1
4	IPEX MHF4L	204416G000000A	Copper Alloy	Au Plated	1