

SPECIFICATION

Part No. : **PC.11.07.0100A**

Product Name :
TheStripe™ PCB Dual-band 2.4 / 5.2 GHz antenna

Features : High Efficiency Dual Band for WiFi /Bluetooth /Zeebee
Applications
IPEX MHF Connector (U.FL compatible)
RoHS Compliant



I. Introduction

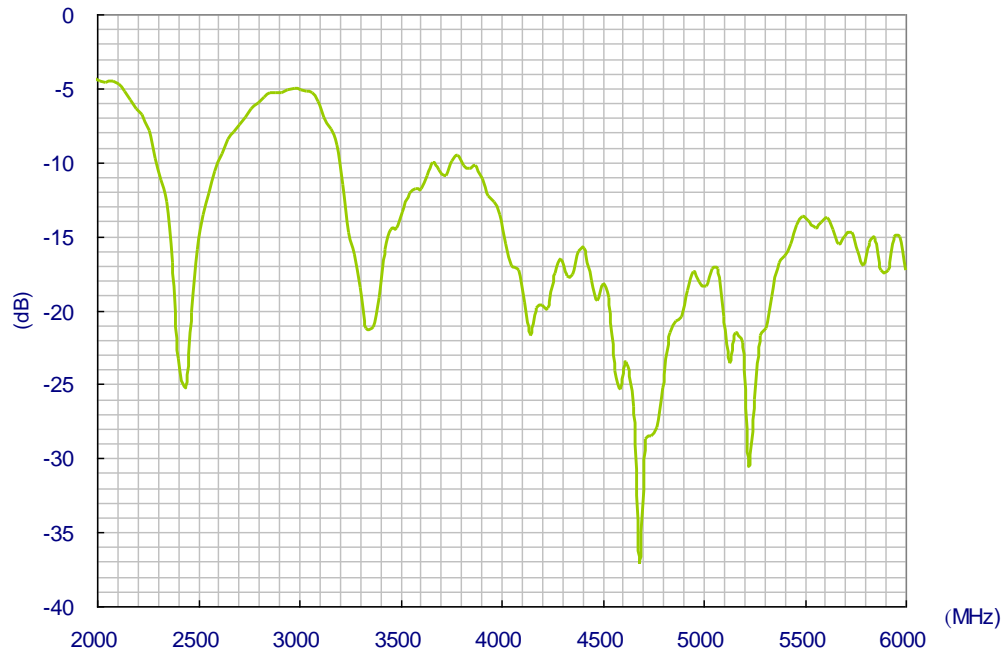
This miniaturized low profile PCB antenna is based on smart TheStripe™ antenna technology. It consists of a PCB antenna and mini coaxial cable.

II. Specification

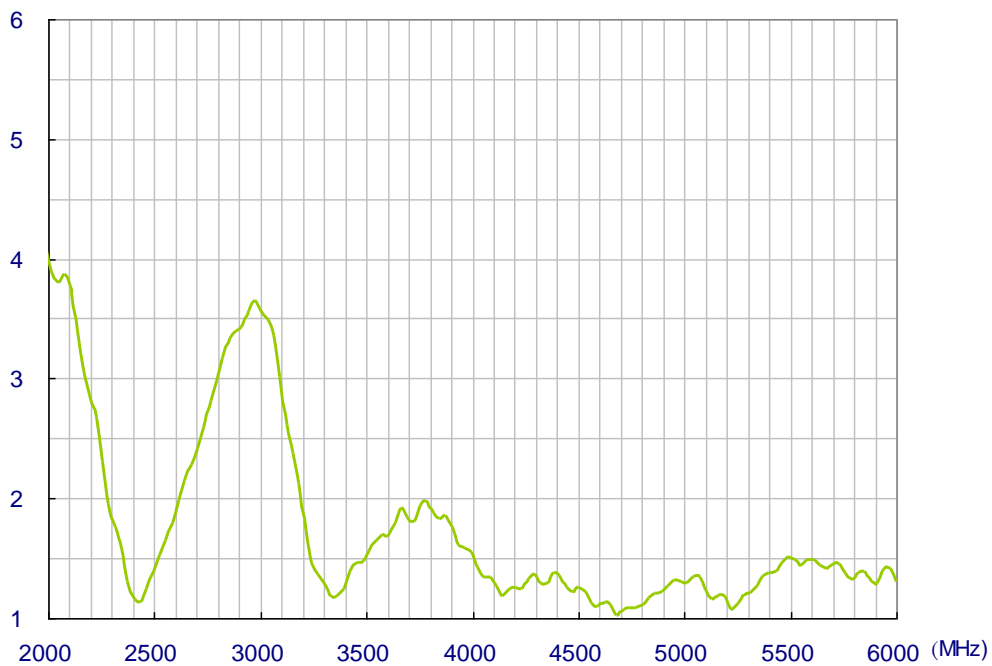
ELECTRICAL		
Frequency	2.4 ~ 2.5GHz,	4.9 ~ 5.9GHz
Peak Gain (free space)	3dBi	4.5dBi
Average Gain (on plastic)	-0.6dBi	-0.5dBi
Efficiency (free space)	85%	88%
Polarization	Linear	
Impedance	50 Ohms	
Radiation Pattern	Omni	
Input Power	2W max.	
MECHANICAL		
Dimensions	66 x 16 x 0.8 mm	
Antenna Body Material	FR4	
Cable	Black 100mm 1.13 co-axial	
Connector	IpeX MHF	
ENVIRONMENTAL		
Temperature Range	-40°C to 85°C	
Humidity	Non-condensing 65°C 95% RH	

III. Antenna Characteristics

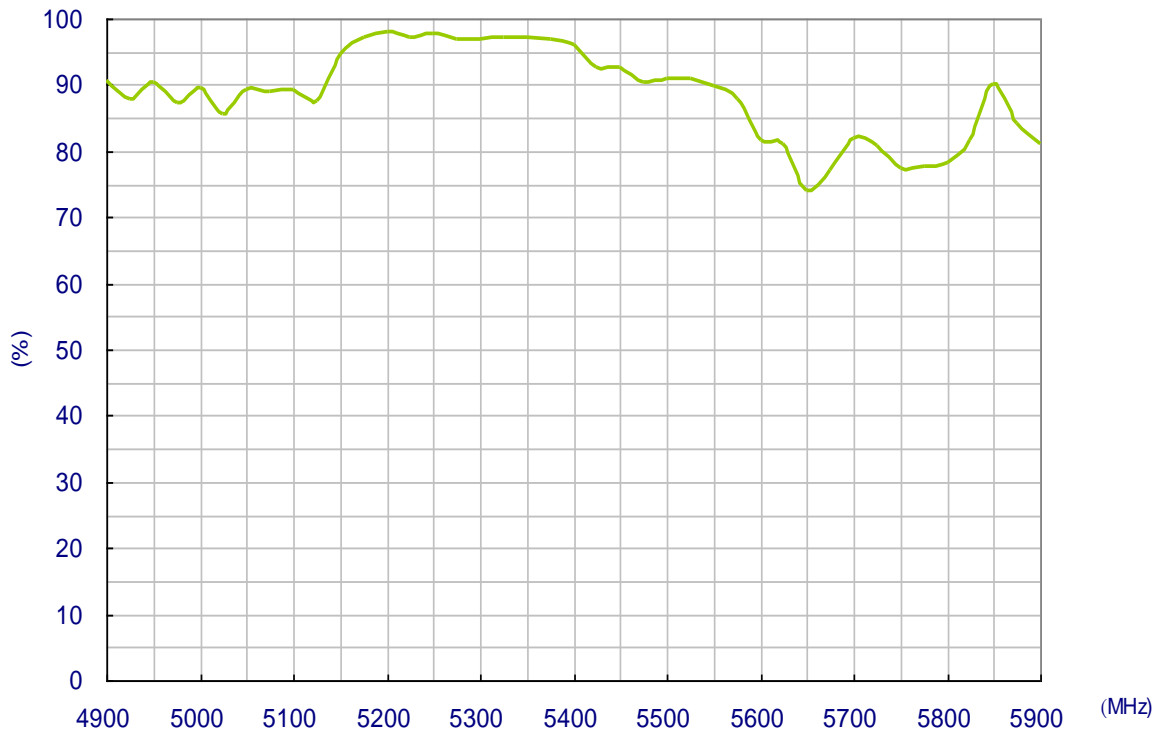
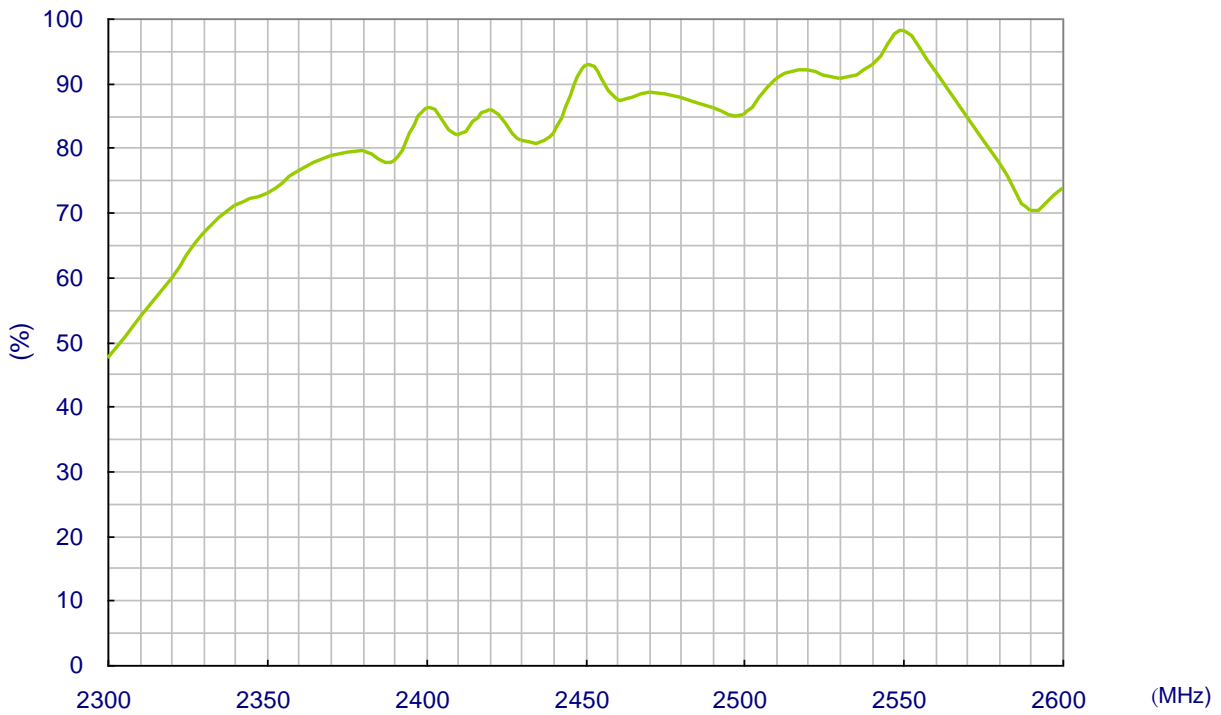
III.1. Return Loss



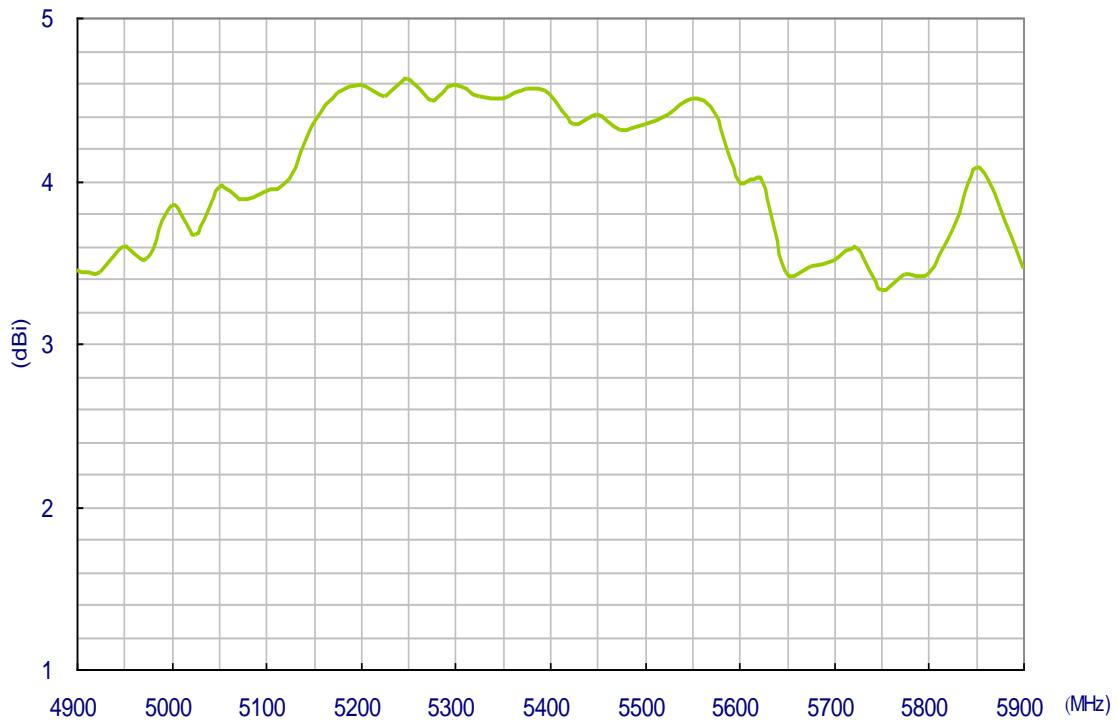
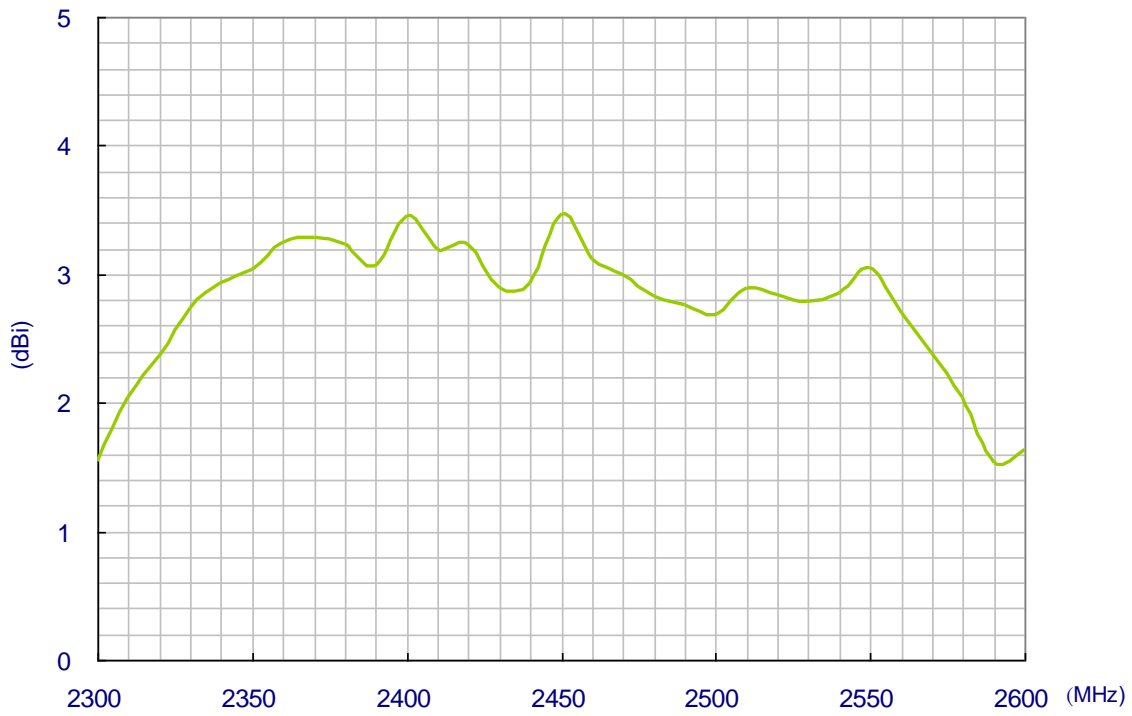
III.2. VSWR



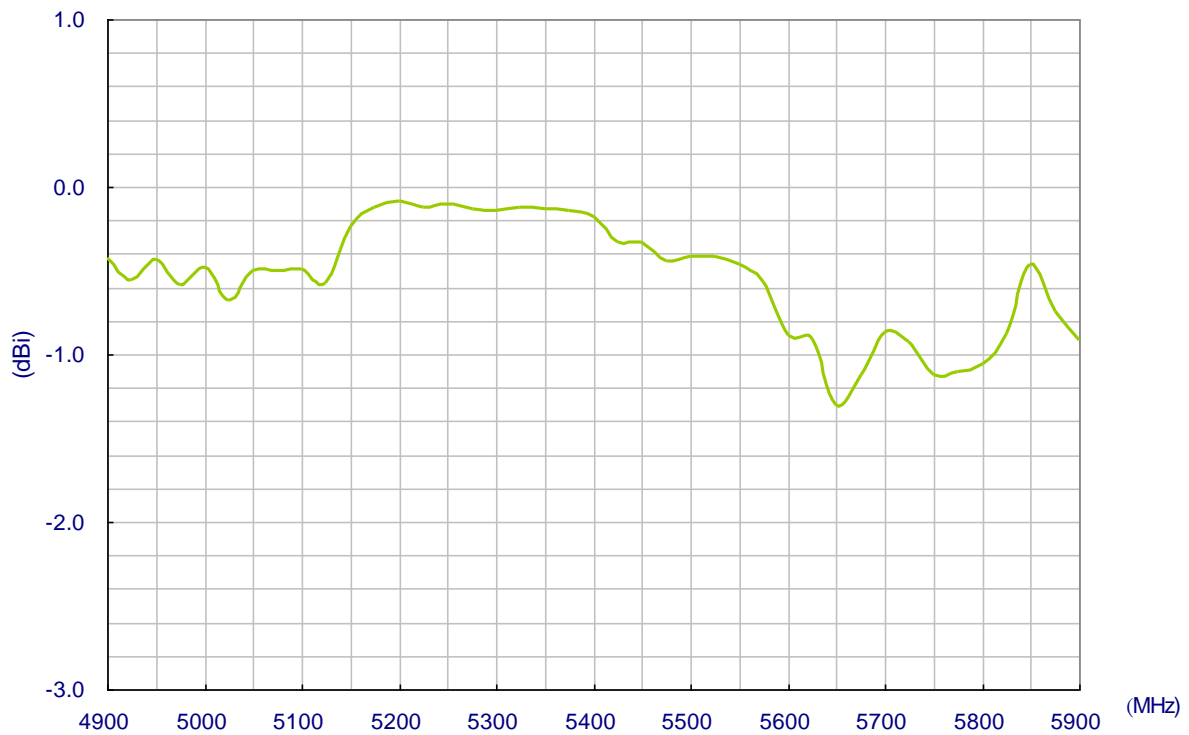
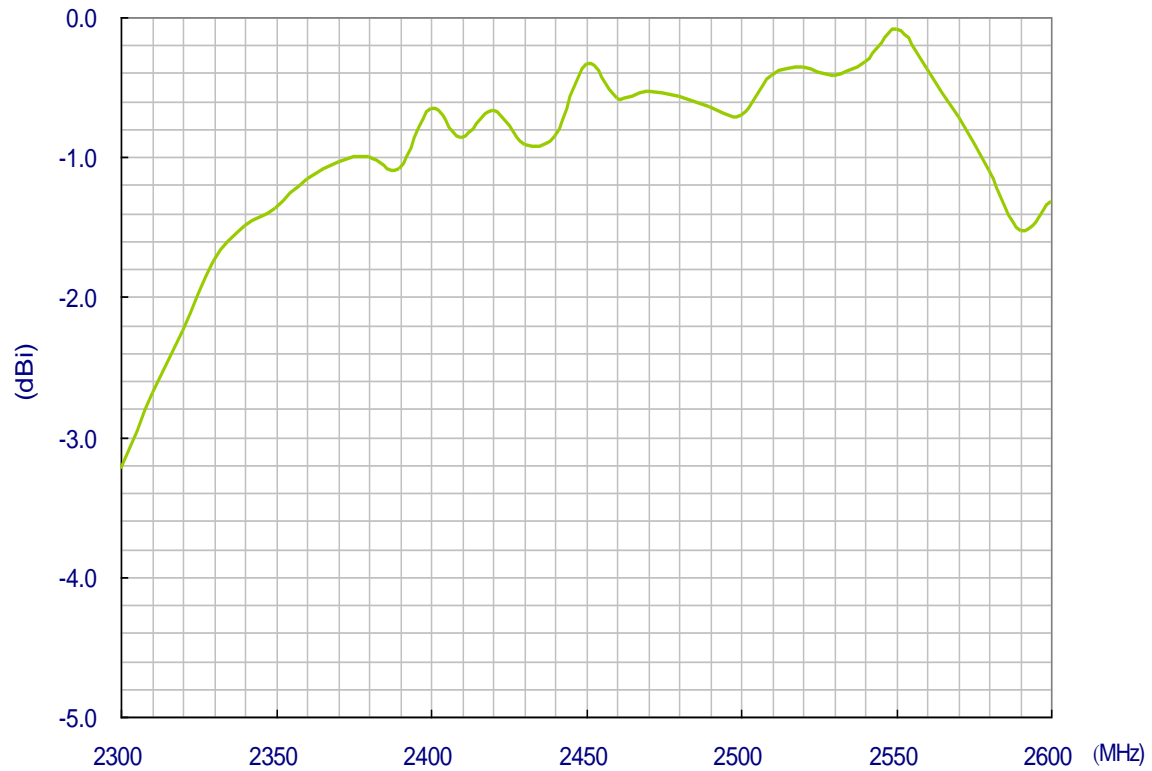
III.3. Antenna Efficiency



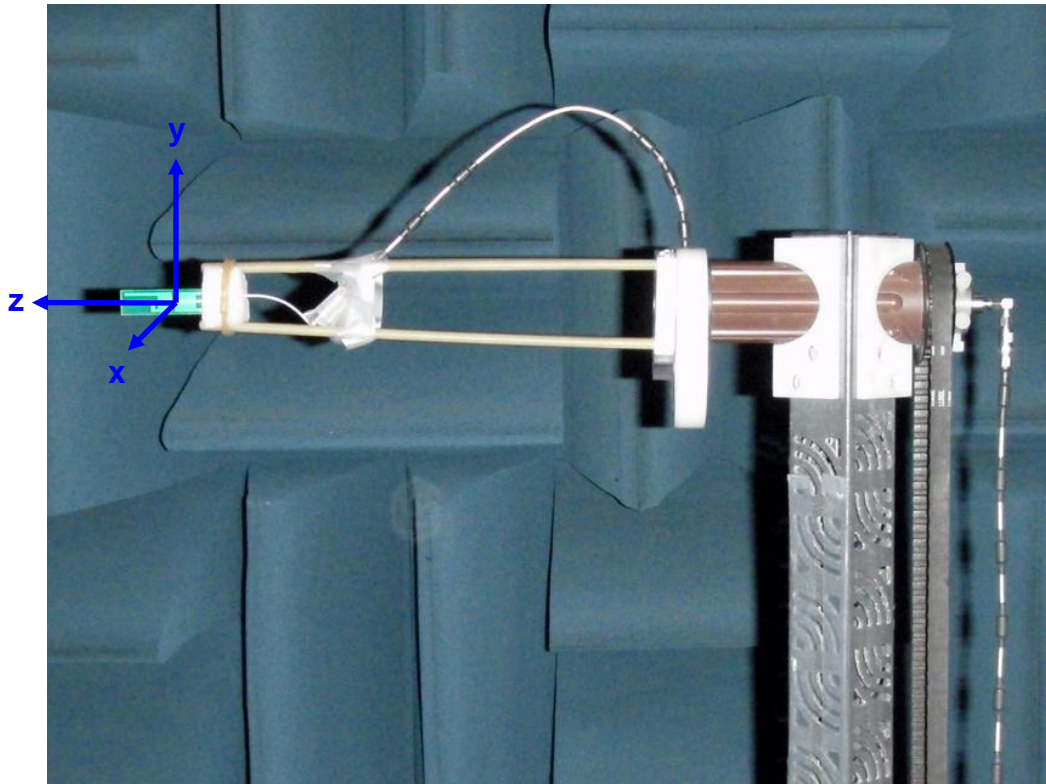
III.4. Antenna Peak Gain



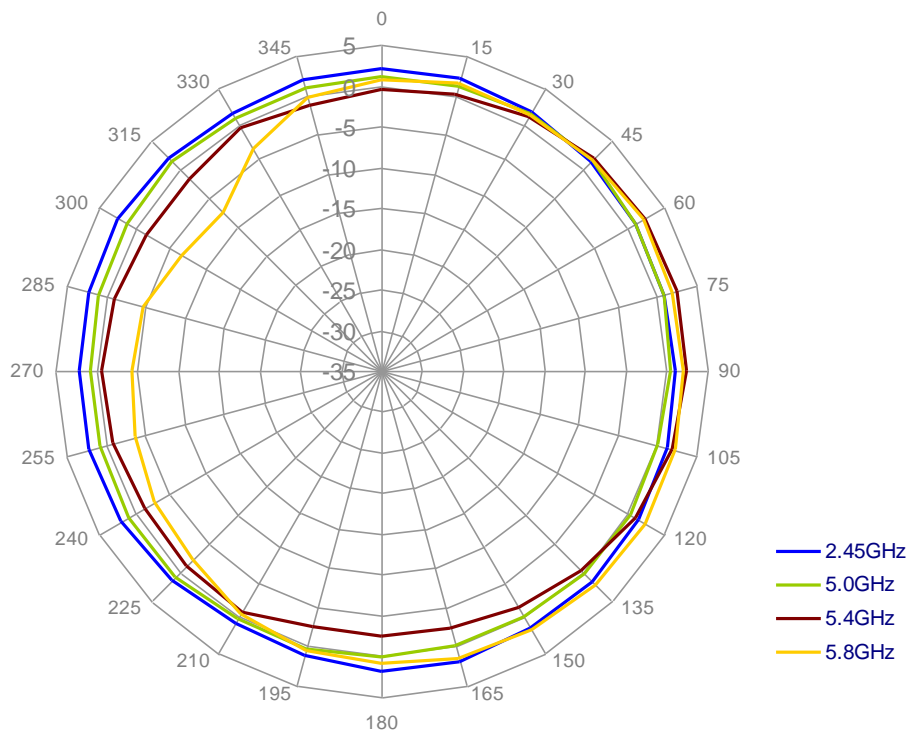
III.5. Antenna 3D Average Gain



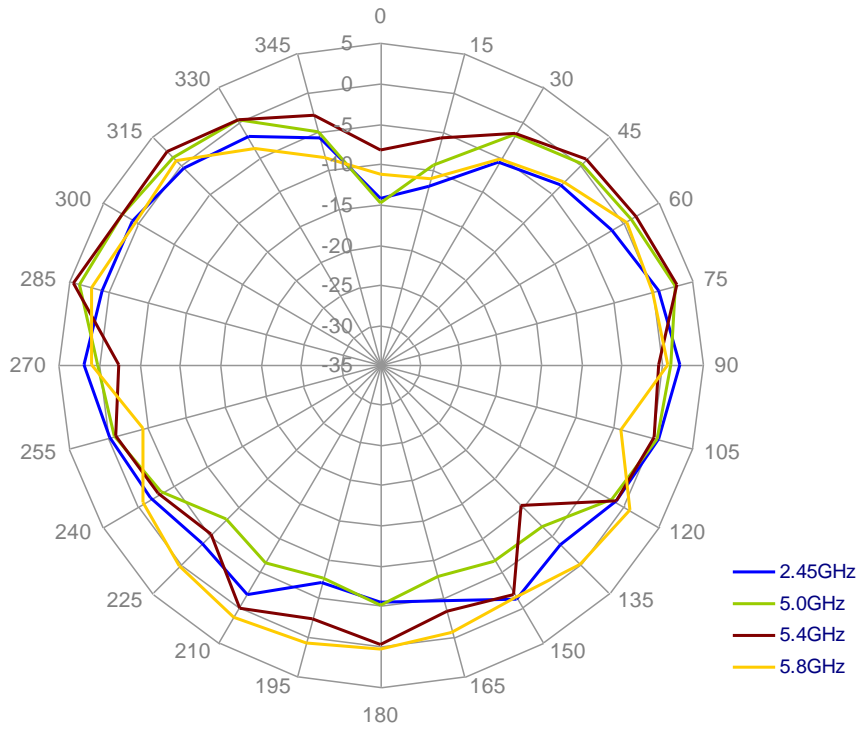
III.6. Radiation Pattern for FXP.830 on plastic



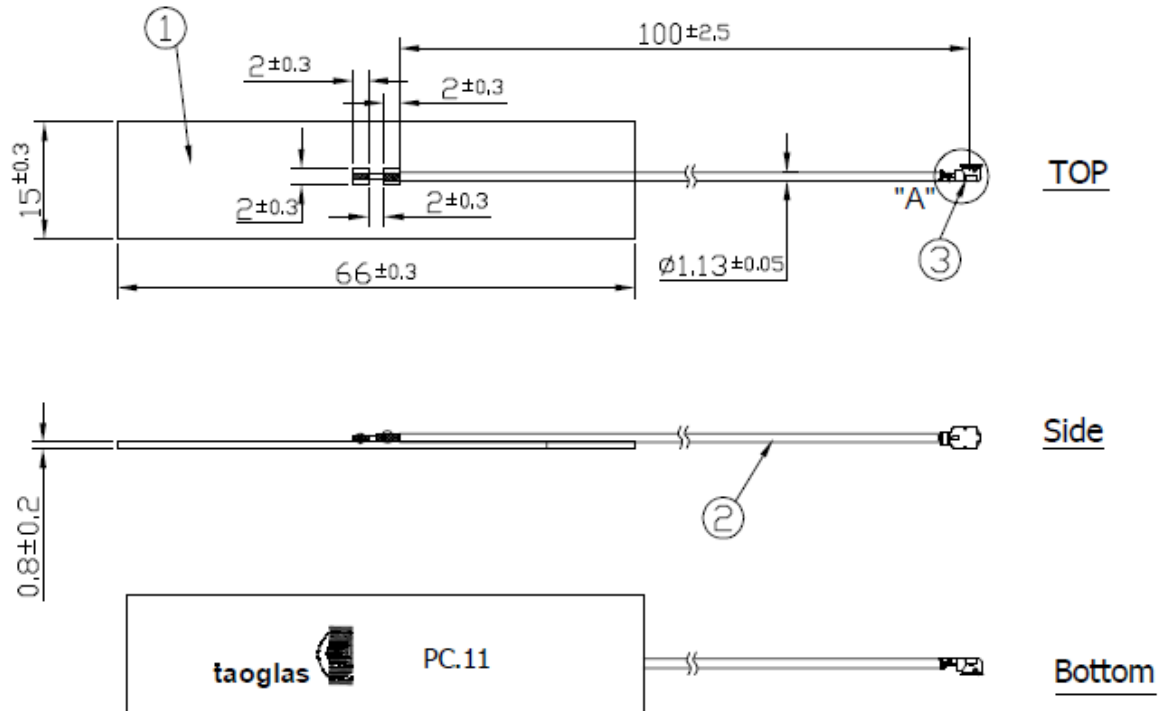
XY-plane




XZ-plane




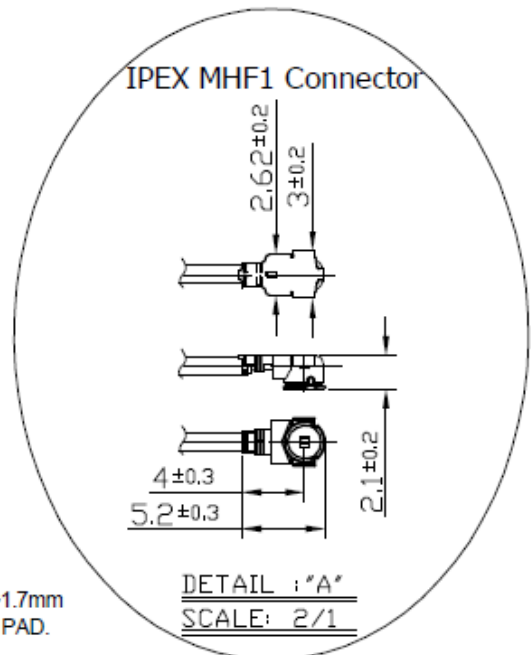
IV. Antenna Drawing



	Name	Material	Finish	QTY
1	PC11 PCB	FR4 0.8t	Black	1
2	1.13 Mini-Coaxial	FEP	Black 	1
3	IPEX MHF 1	Brass	Gold	1

NOTES:

- 1.NO DREGS OR INSUFFICIENT SOLDERING. SOLDER THICKNESS 1 ~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.



Unit:mm