

SPECIFICATION

- Part No. : **PC11.07.0100A**
- Product Name : **TheStripe™** PCB Dual-band 2.4 / 5.2 GHz antenna
- Features : High Efficiency Dual Band for Wi-Fi
/Bluetooth/Zigbee Applications
IPEX MHF Connector (U.FL compatible)
RoHS Compliant



1. Introduction

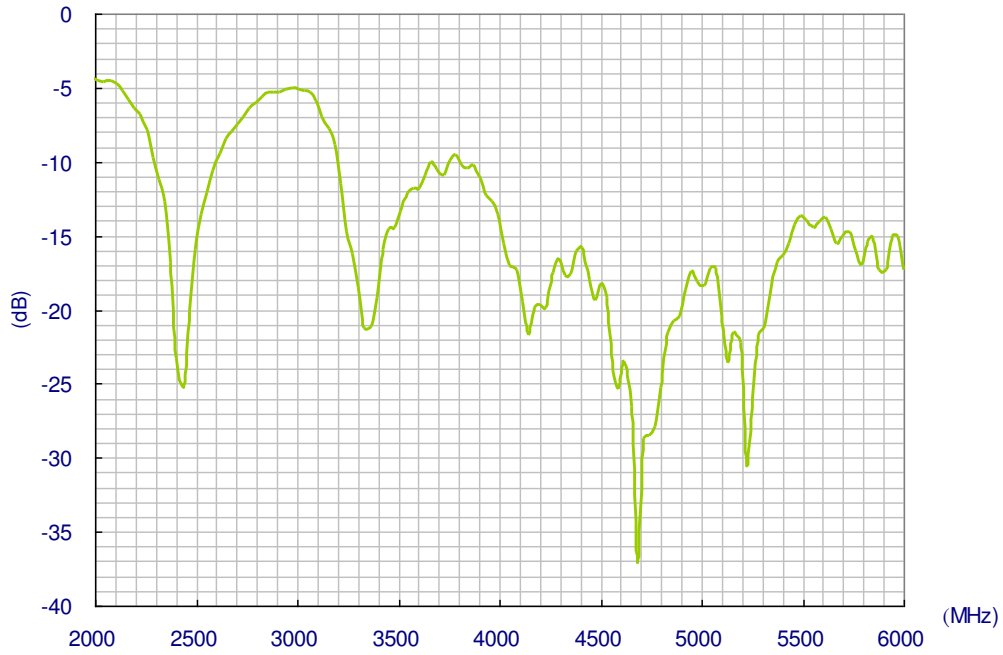
This miniaturized low profile PCB antenna is based on smart TheStripe™ antenna technology. It consists of a PCB antenna and mini coaxial cable.

2. Specification

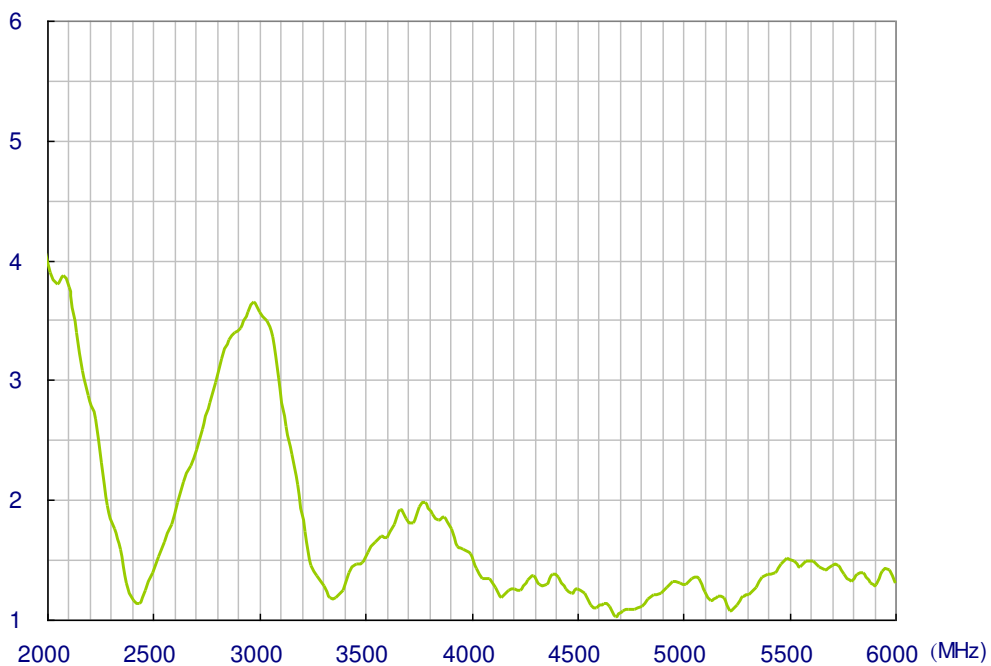
ELECTRICAL		
Frequency	2.4 ~ 2.5GHz,	4.9 ~ 5.9GHz
Peak Gain (free space)	3dBi	4.5dBi
Average Gain (on plastic)	-0.6dBi	-0.5dBi
Efficiency (free space)	85%	88%
Polarization	Linear	
Impedance	50 Ohms	
Radiation Pattern	Omni	
Input Power	2W max.	
MECHANICAL		
Dimensions	66 x 16 x 0.8 mm	
Antenna Body Material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

3. Antenna Characteristics

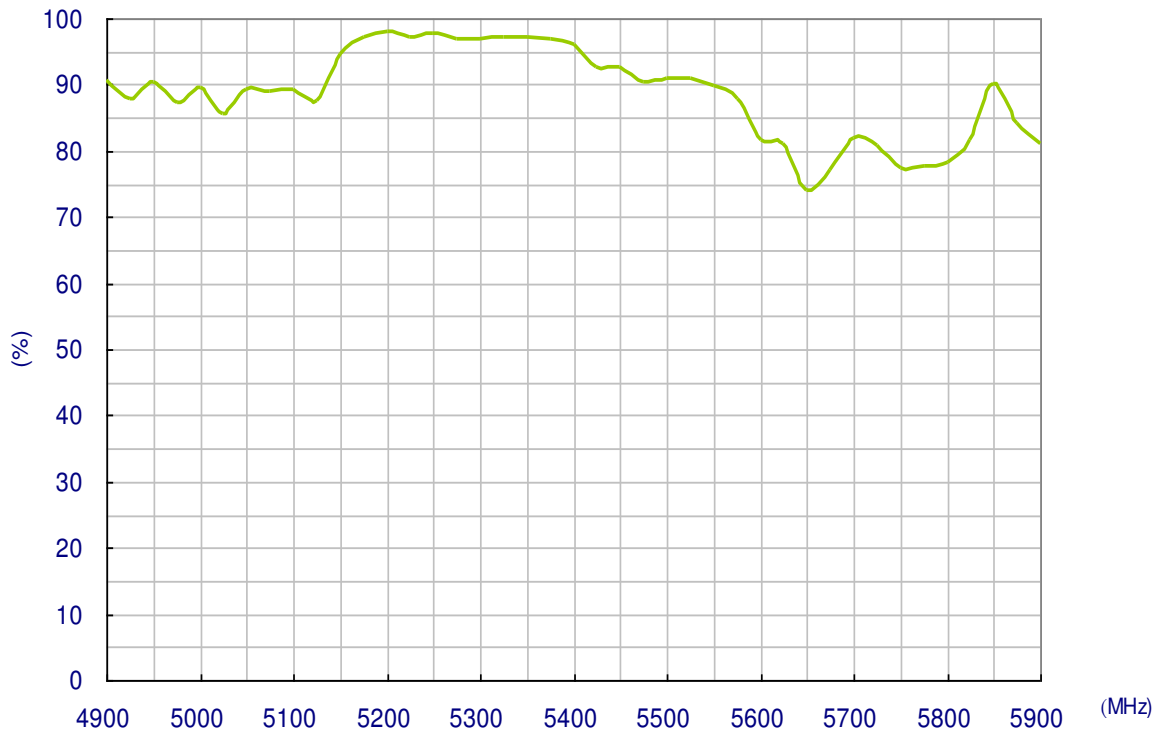
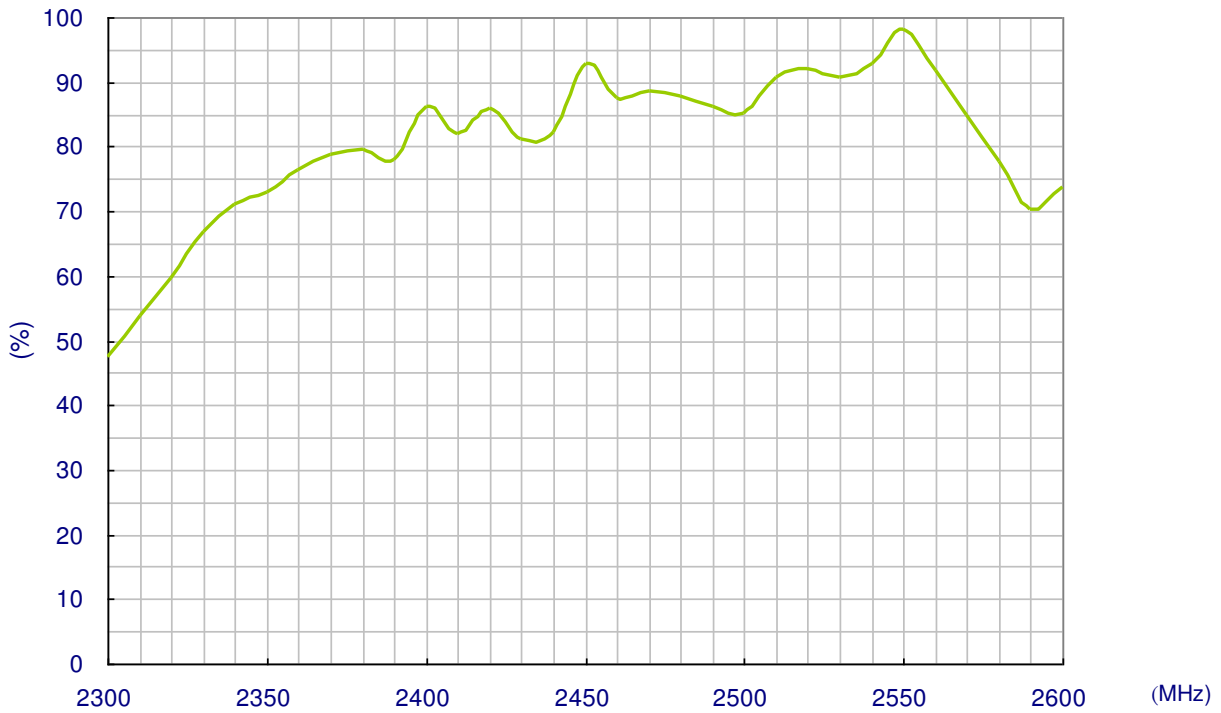
3.1. Return Loss



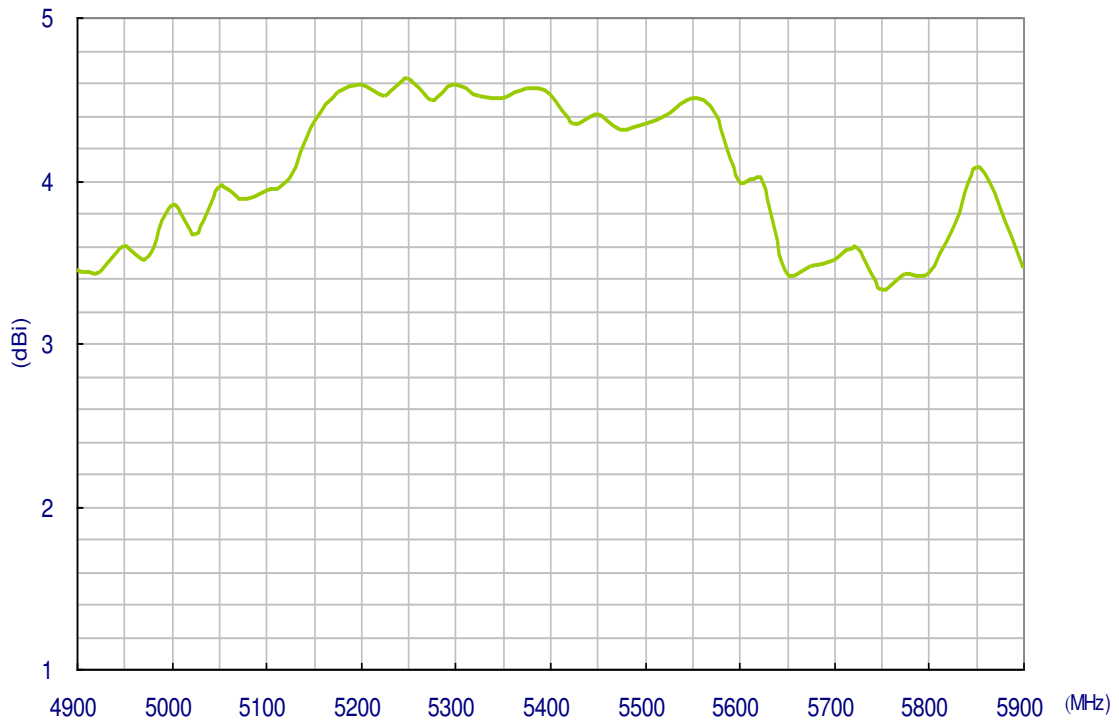
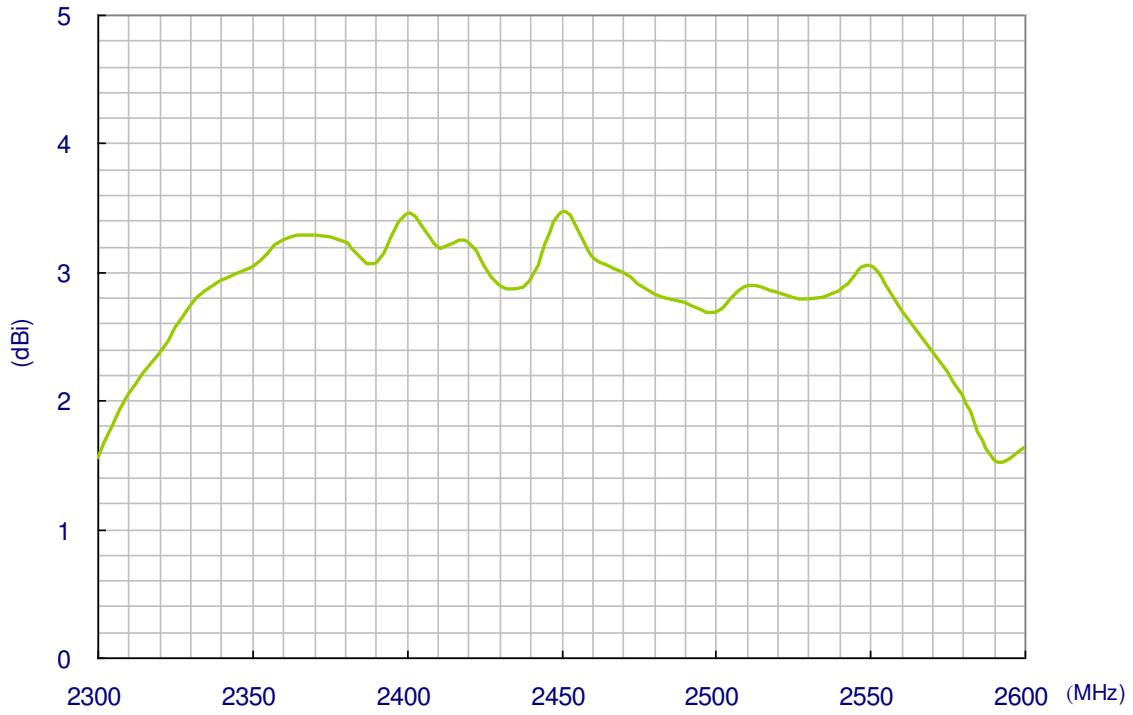
3.2. VSWR



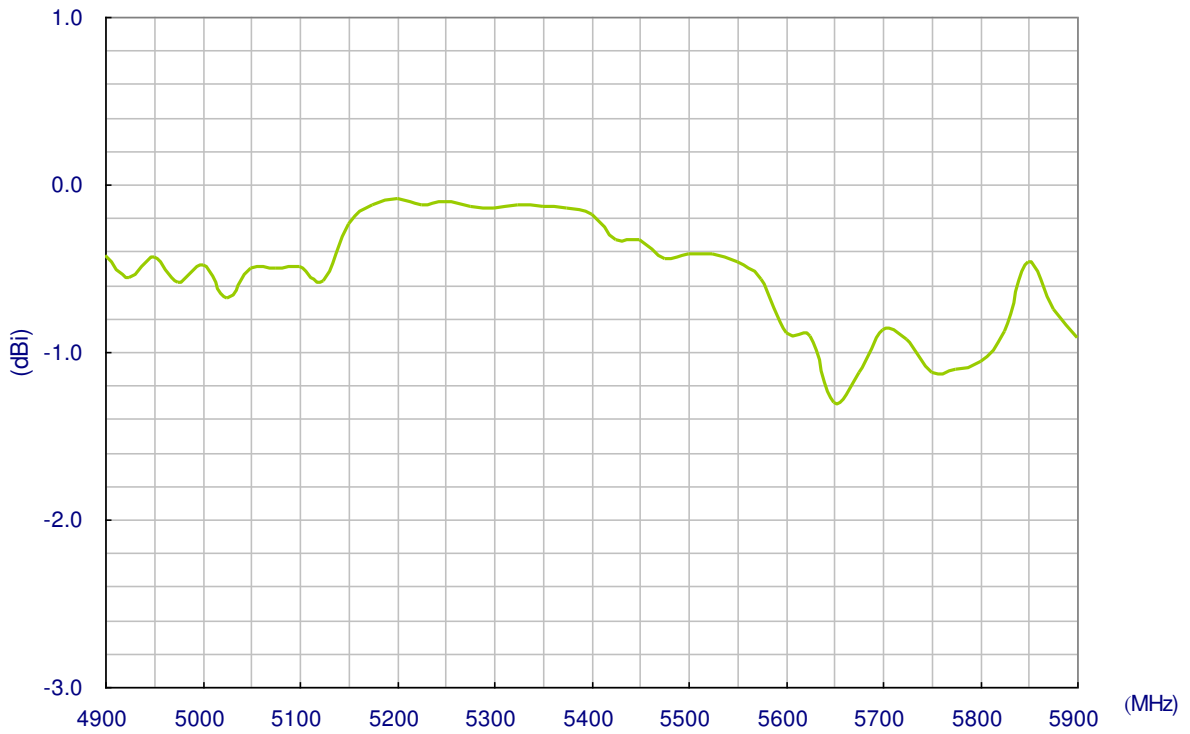
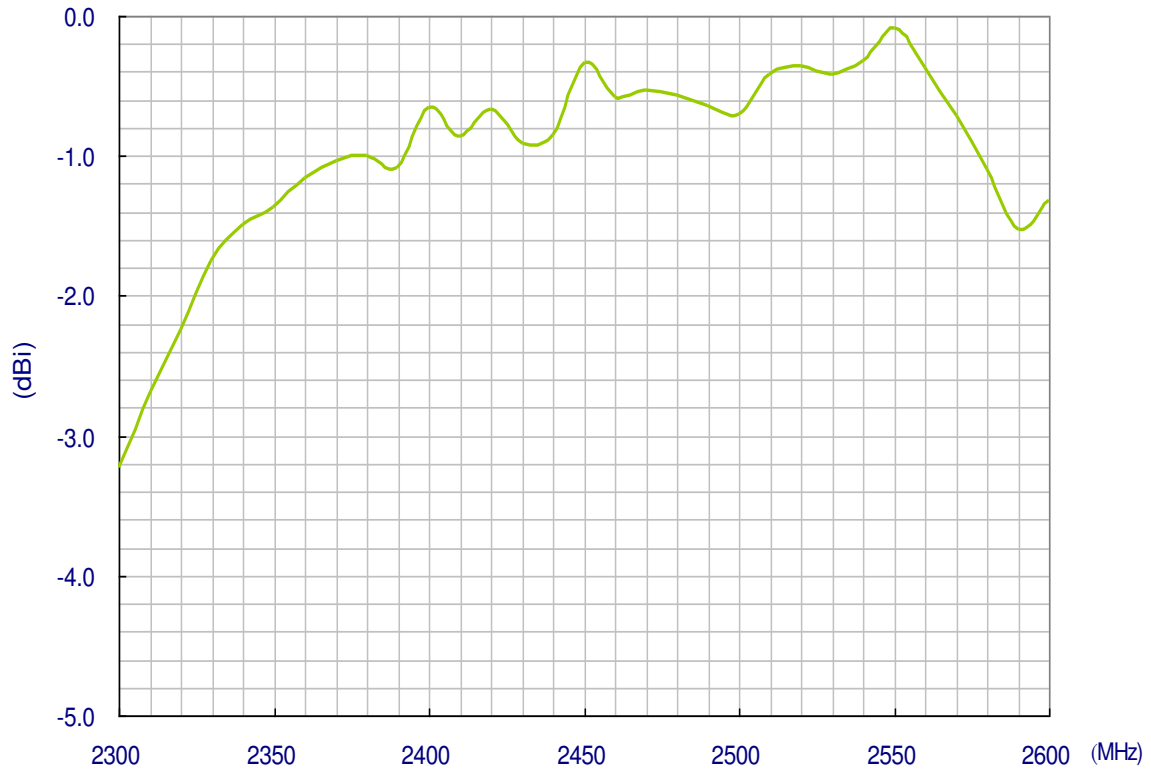
3.3. Antenna Efficiency



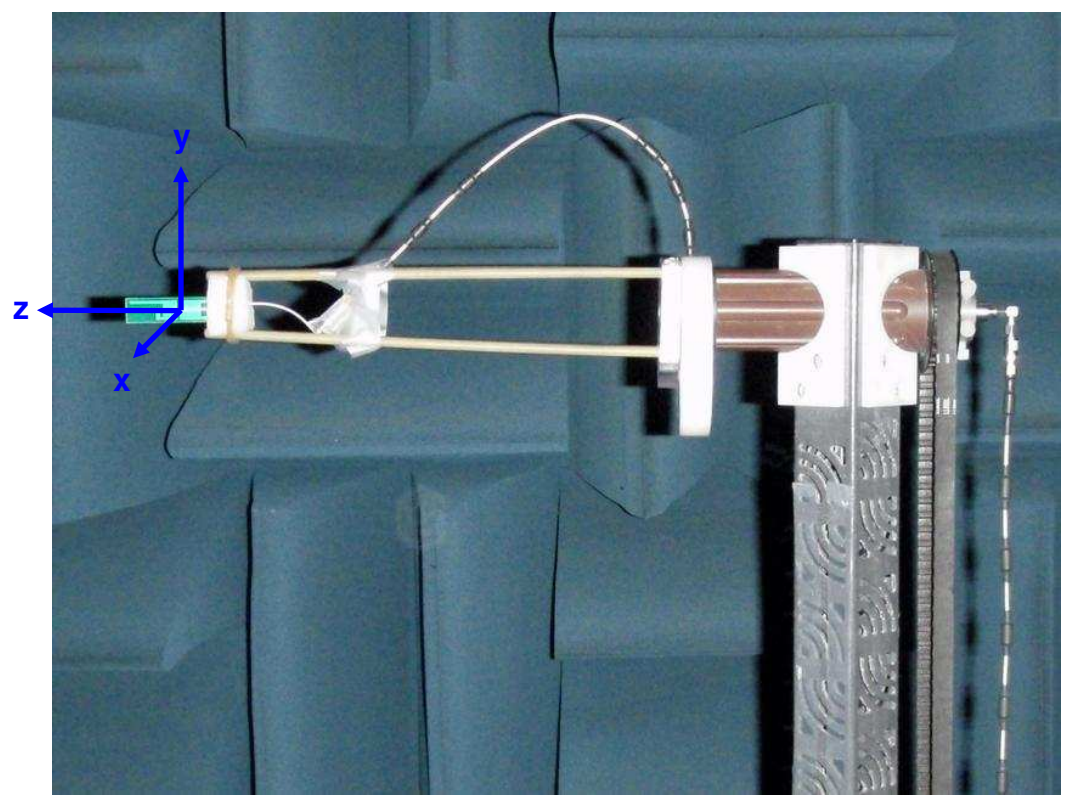
3.4. Antenna Peak Gain



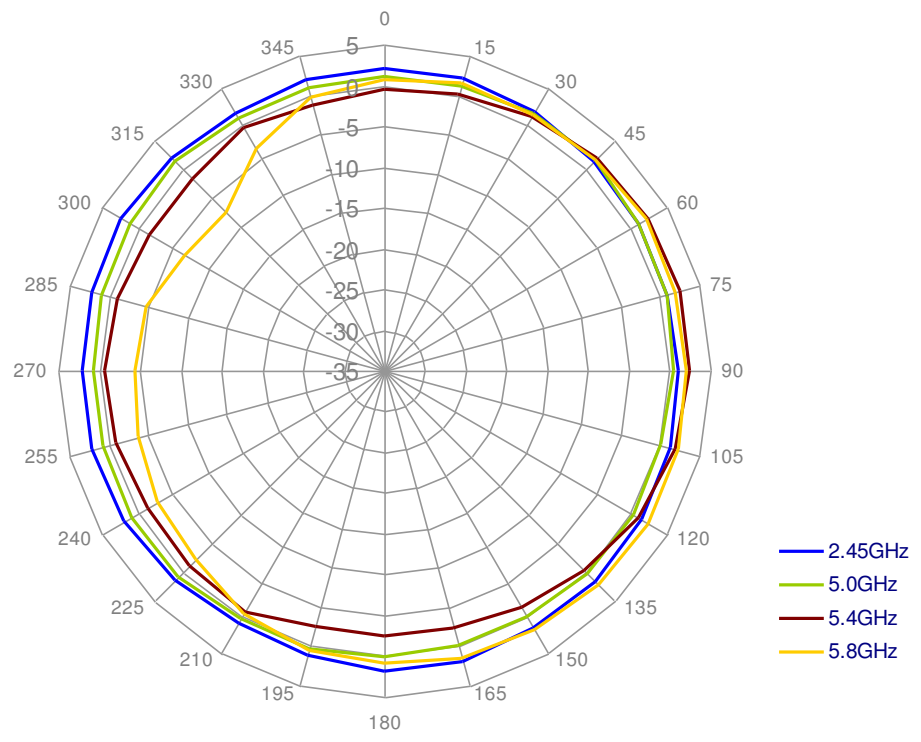
3.5. Antenna 3D Average Gain



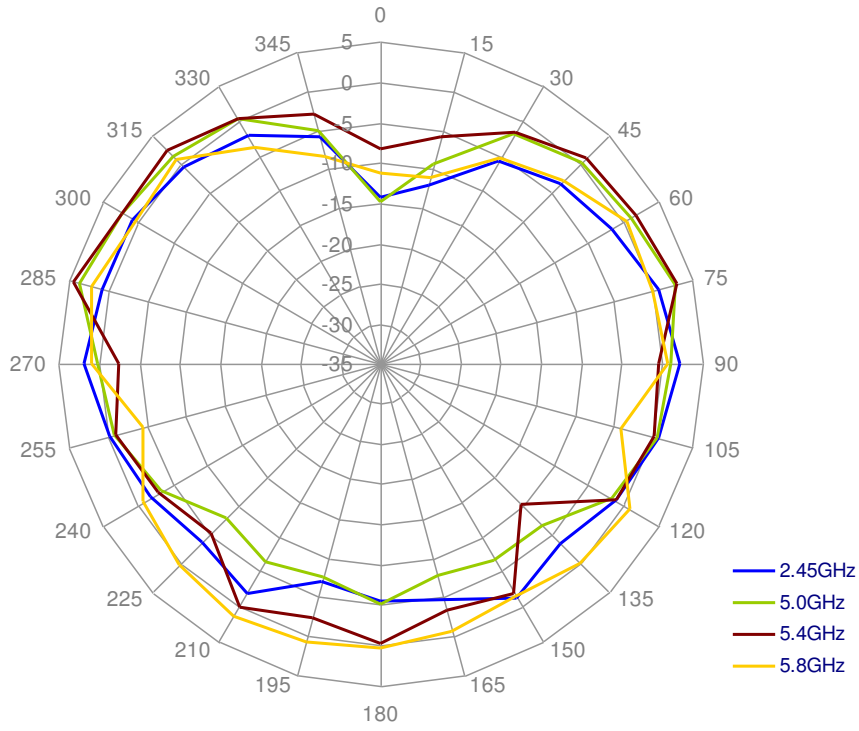
3.6. Radiation Pattern for PC11 on plastic



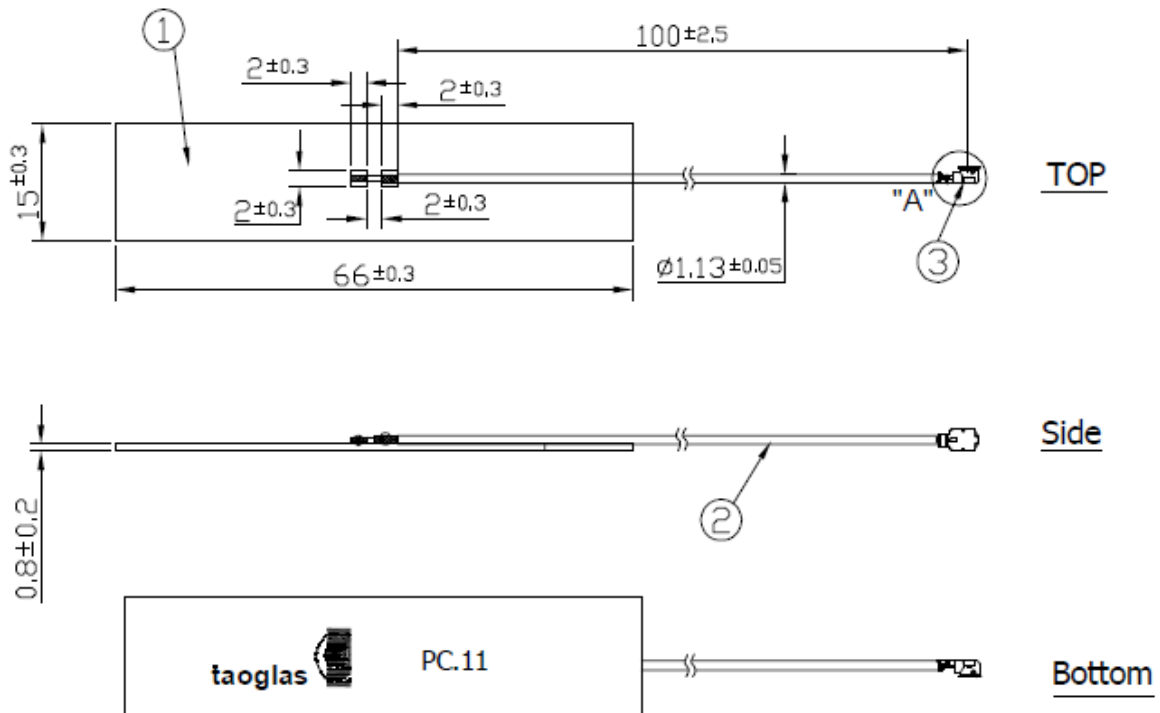
XY-plane



XZ-plane



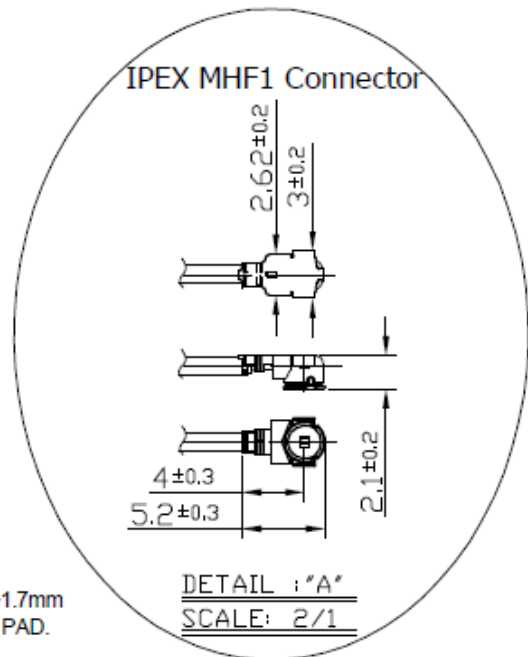
4. Antenna Drawing



	Name	Material	Finish	QTY
1	PC11 PCB	FR4 0.8t	Black	1
2	1.13 Mini-Coaxial	FEP	Black $\triangle B$	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. $\triangle B$
- 5.OPEN/SHORT QC, VSWR REQUIRED.



Unit:mm