

SPECIFICATION

Part No. : **PC11.09.0100A**

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

Features : High Efficiency Dual Band for WiFi /Bluetooth
/Zigbee Applications
100mm 1.13 MMCX(M)RA
RoHS Compliant



1. Introduction

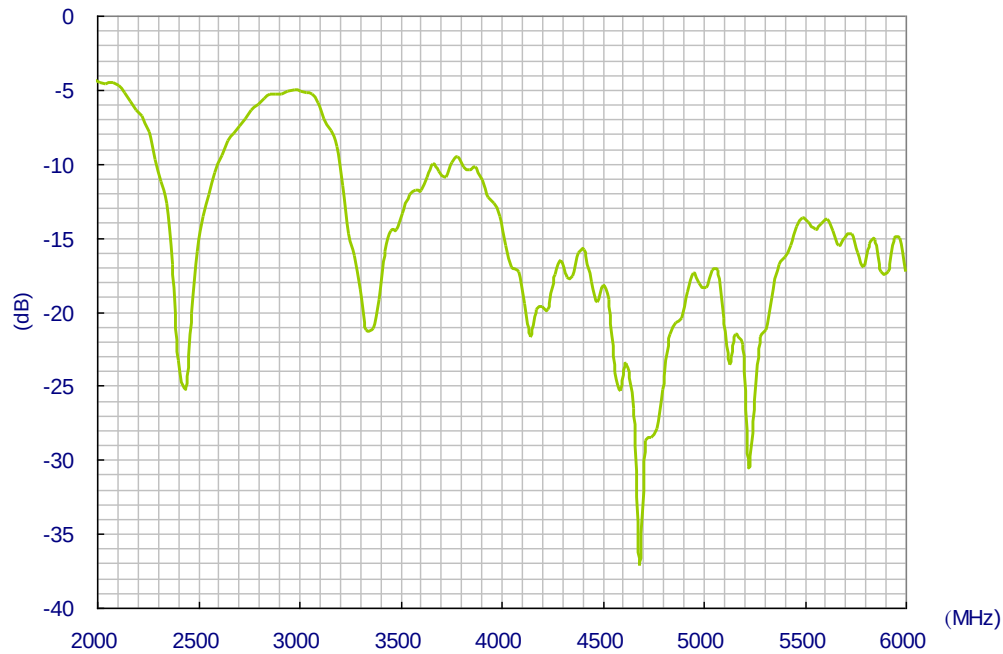
This miniaturized low profile PCB antenna is based on smart TheStripe™ antenna technology. It consists of a PCB antenna and mini coaxial cable.

2. Specification

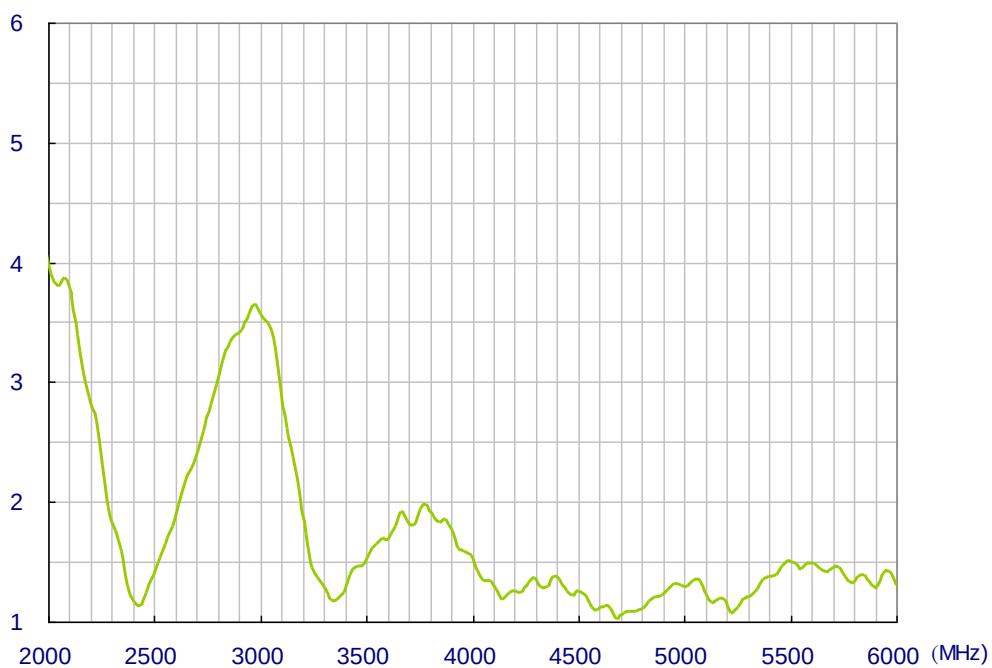
ELECTRICAL		
Frequency	2.4 ~ 2.5GHz,	4.9 ~ 5.9GHz
Peak Gain (free space)	3dBi	4.5dBi
Average Gain (on plastic)	-0.6dBi	-0.5dBI
Efficiency (free space)	85%	88%
Polarization	Linear	
Impedance	50 Ohms	
Radiation Pattern	Omni	
Input Power	2W max.	
MECHANICAL		
Dimensions	66 x 16 x 0.8 mm	
Antenna Body Material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

3. Antenna Characteristics

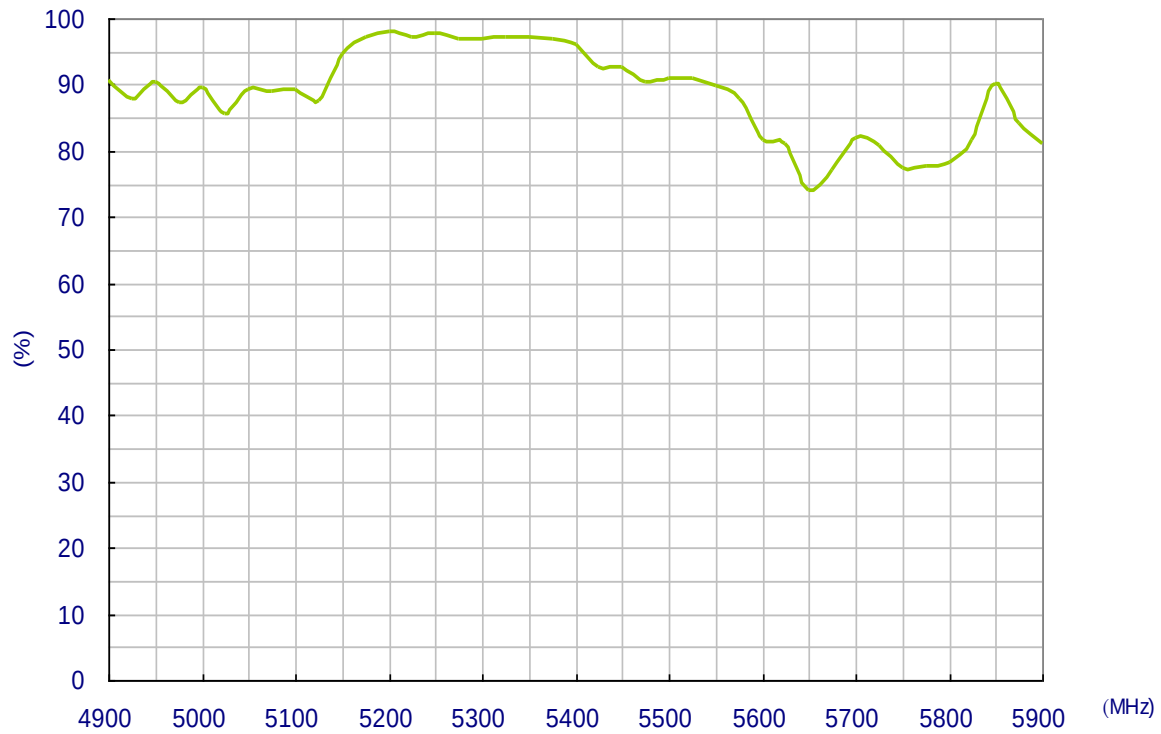
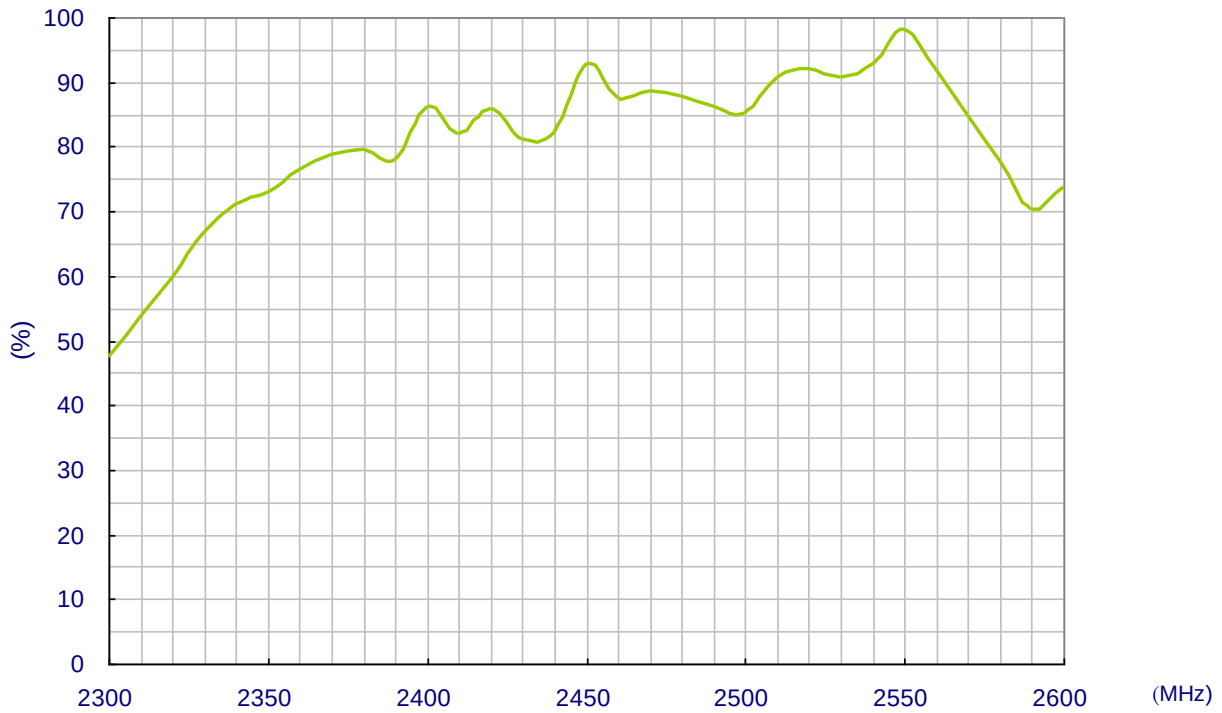
3.1. Return Loss



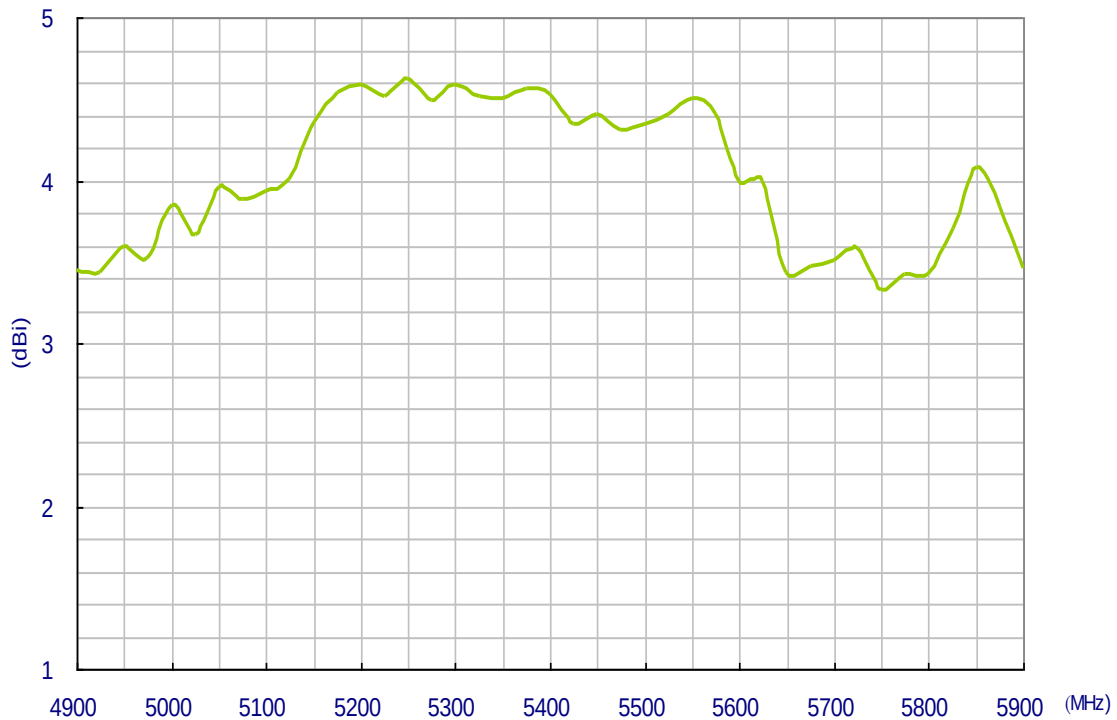
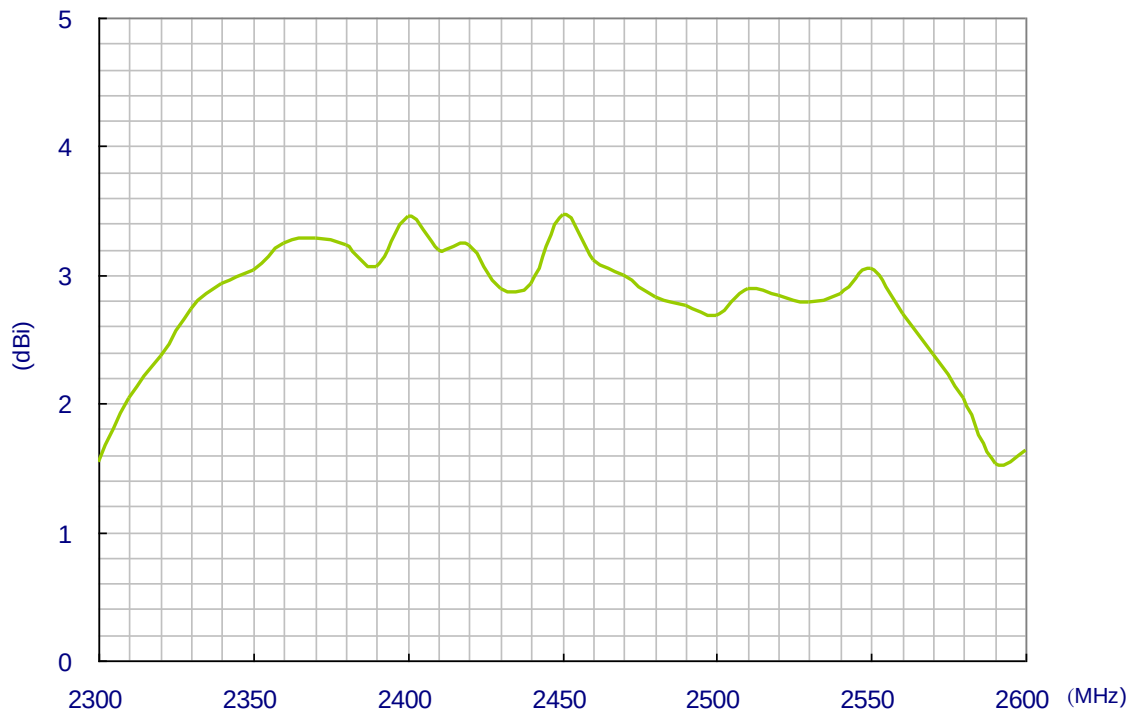
3.2. VSWR



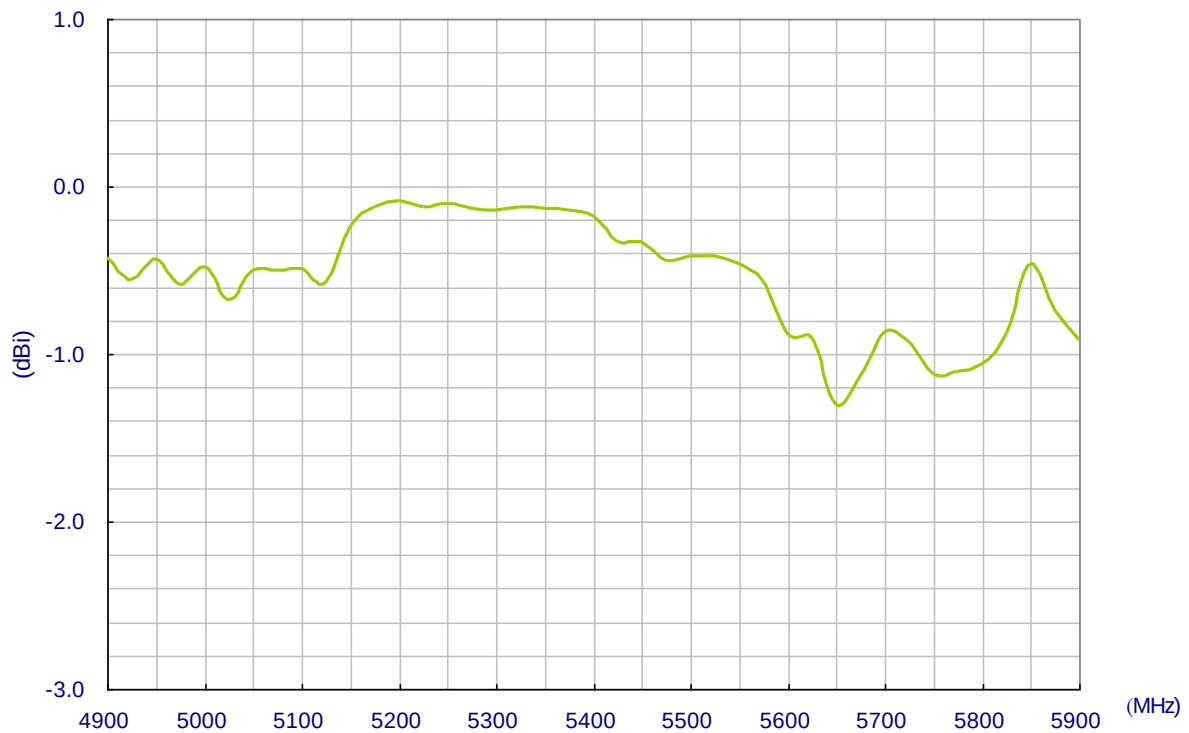
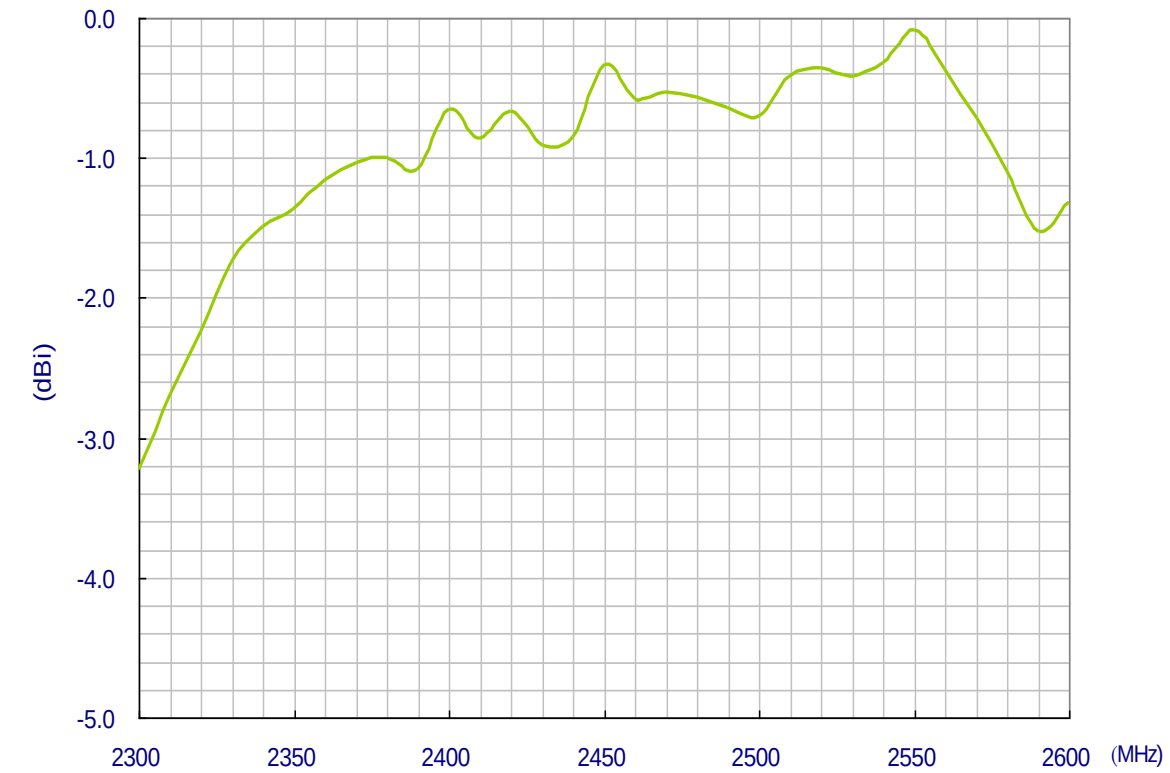
3.3. Antenna Efficiency



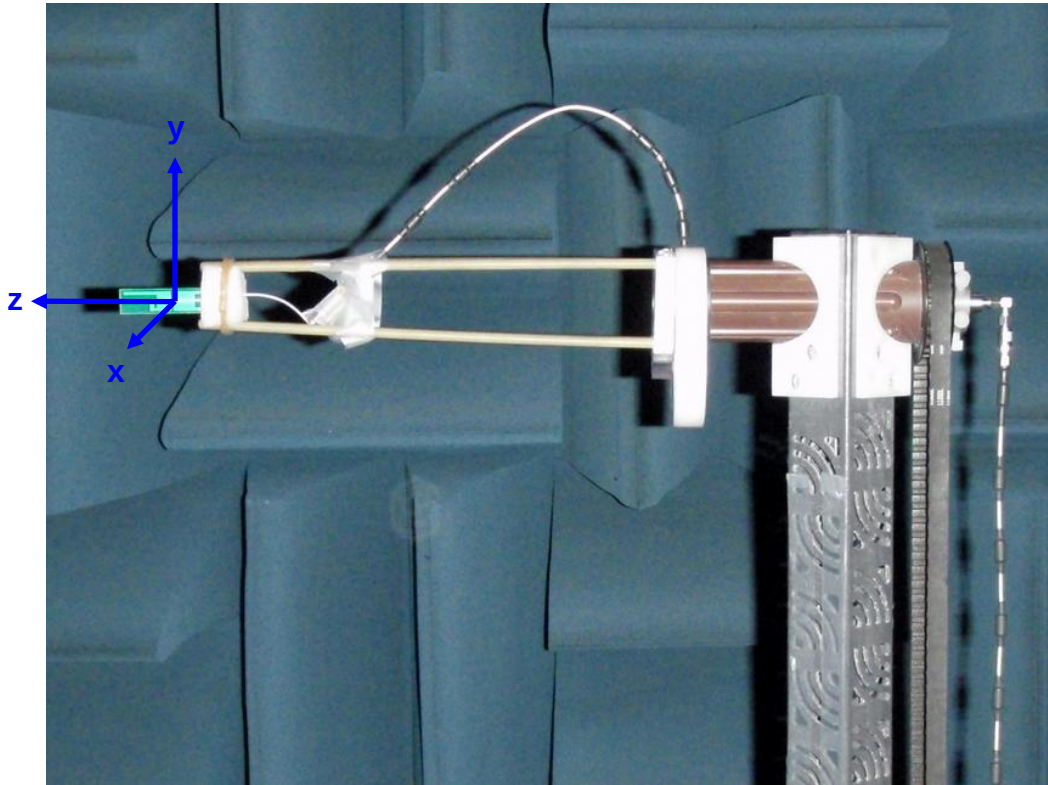
3.4. Antenna Peak Gain



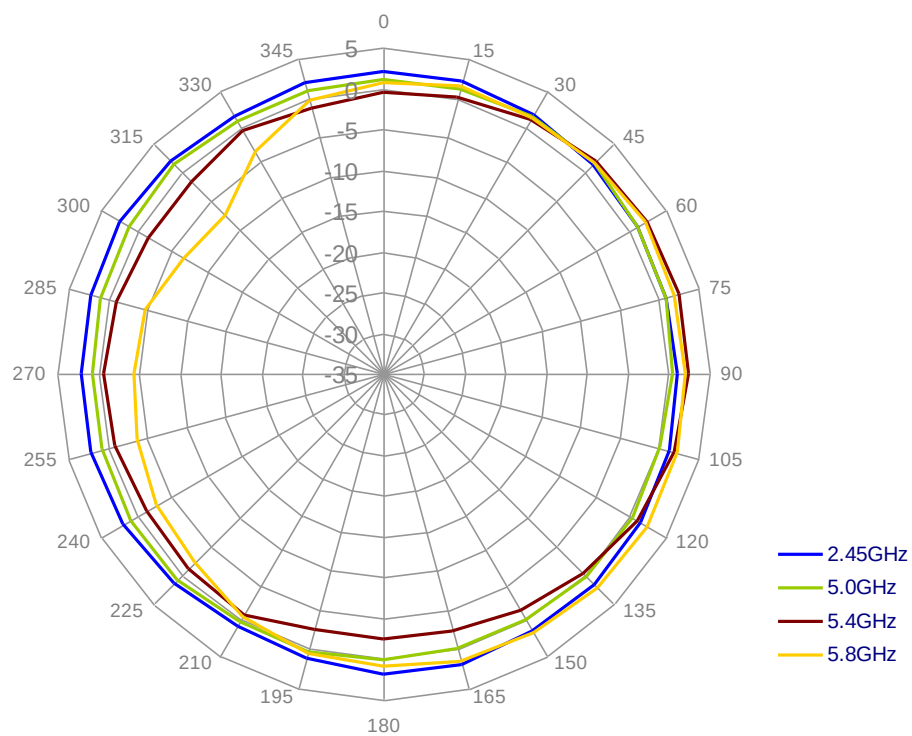
3.5. Antenna 3D Average Gain



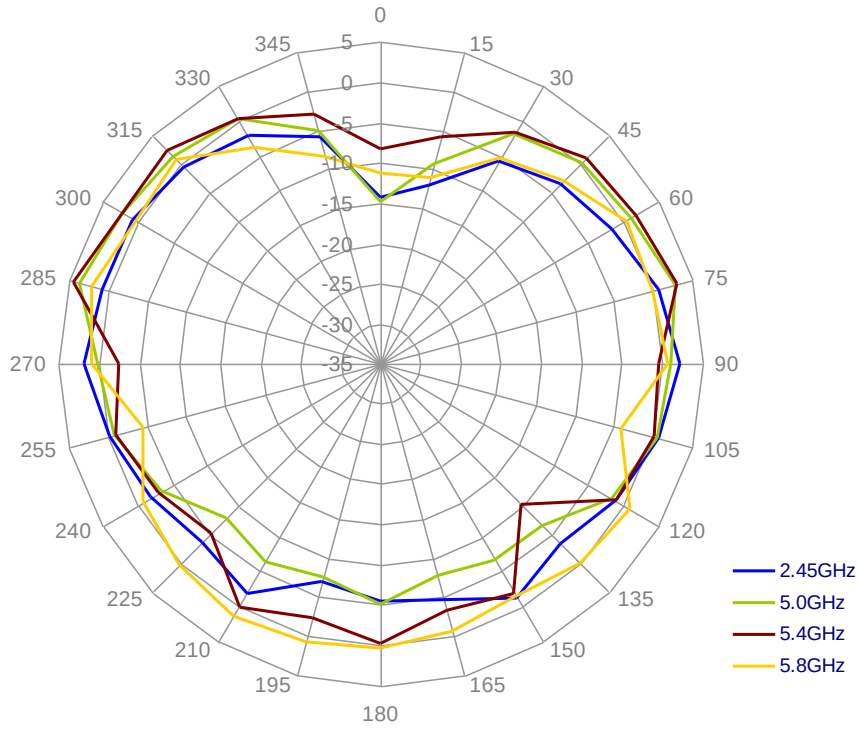
3.6. Radiation Pattern for PC11 on plastic



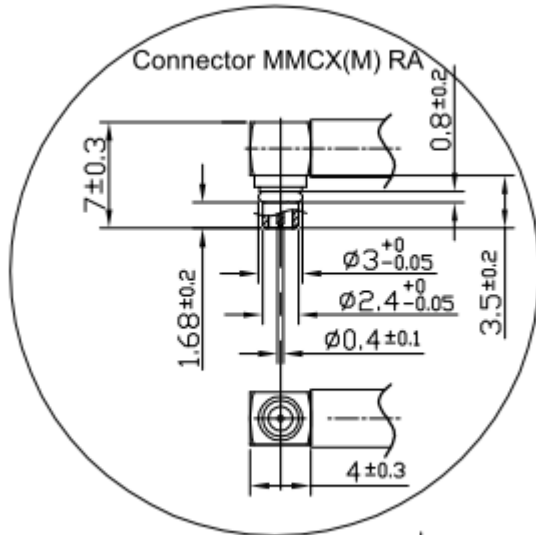
XY-plane



XZ-plane

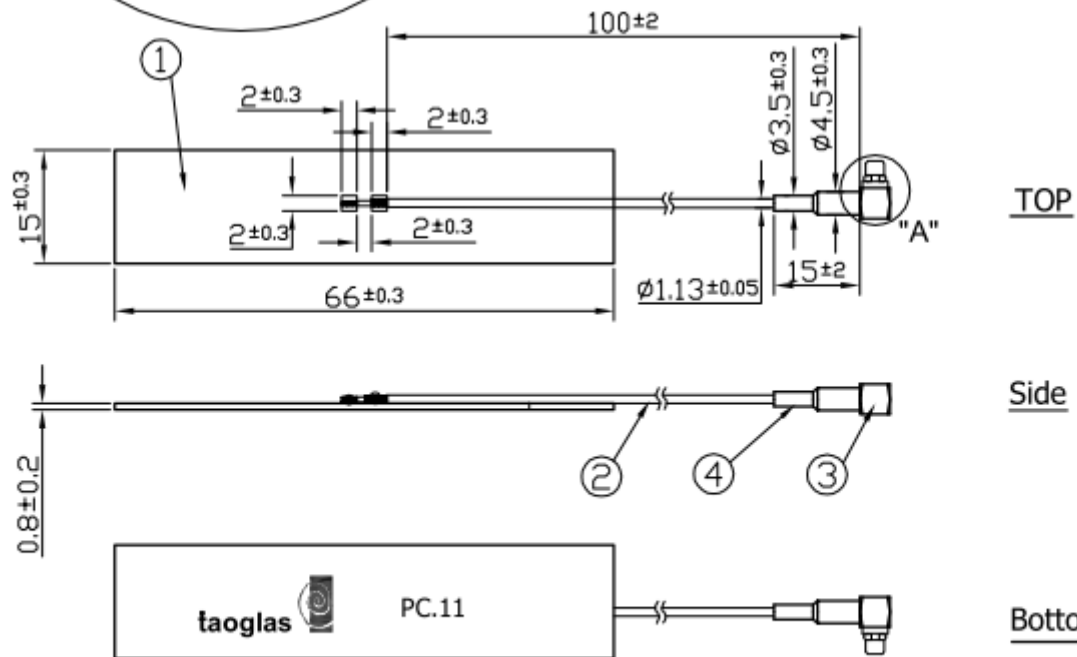


4. Antenna Drawing –(unit:mm)



	Name	Material	Finish	QTY
1	PC11 PCB	FR4.08t	Black	1
2	1.13 Mini-Coaxial	FEP	Black	1
3	MMCX(M) RA	Brass	Gold	1
4	Heat Shrink Tube	PE	Black	1

DETAIL : "A"
SCALE: 2/1



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