

## 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

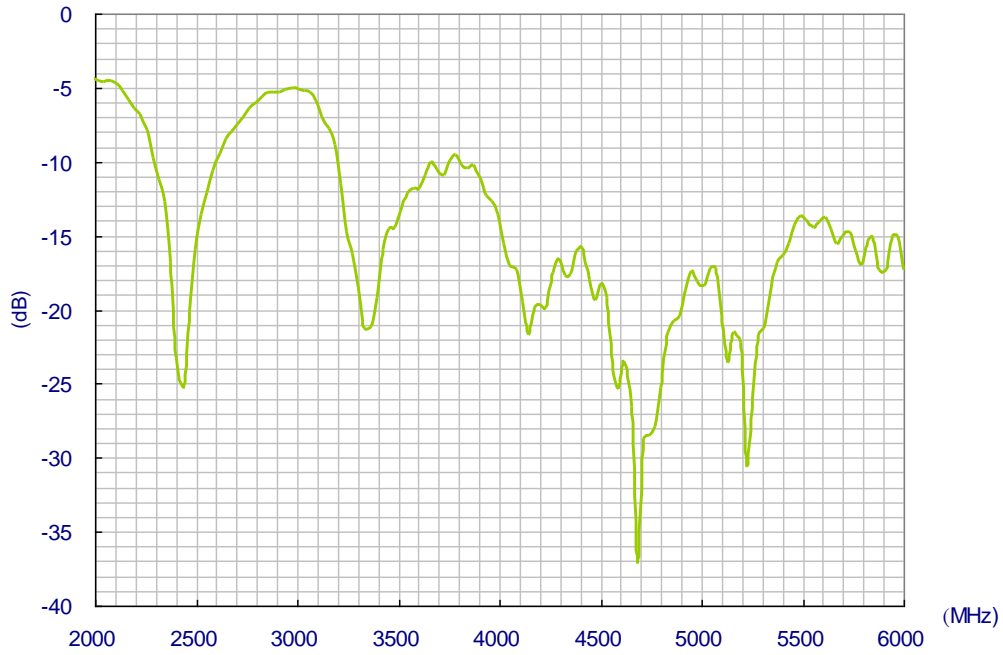
This miniaturized low profile PCB antenna is based on smart TheStripe™ antenna technology. It consists of a PCB antenna and mini coaxial cable.

## 2. Specification

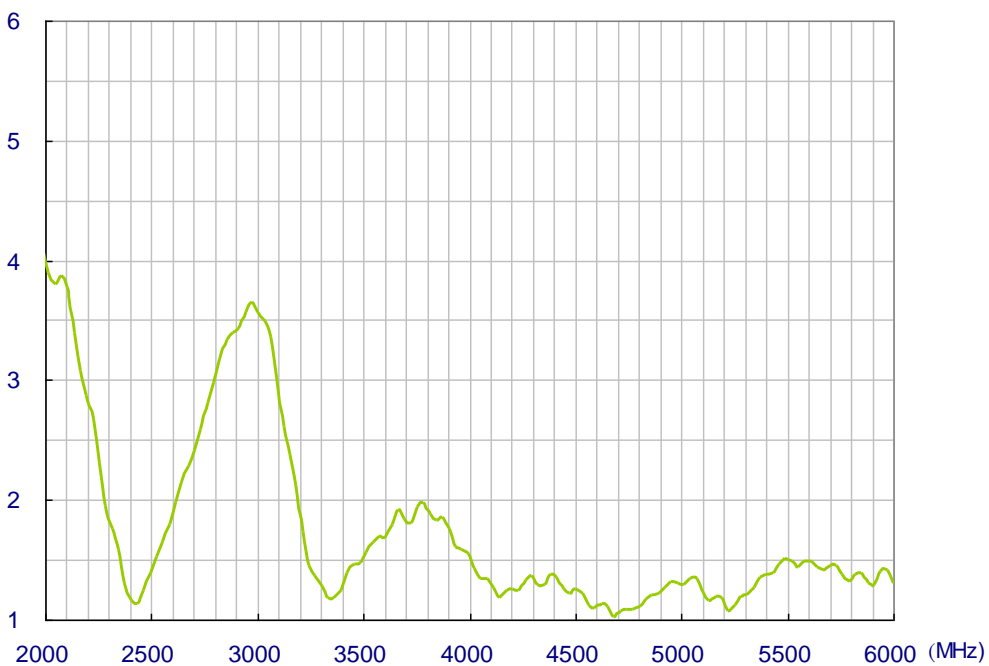
ELECTRICAL		
Frequency	2.4 ~ 2.5GHz,	4.9 ~ 5.9GHz
Peak Gain (free space)	3dBi	4.5dBi
Average Gain (on plastic)	-0.6dBi	-0.5dBI
Efficiency (free space)	85%	88%
Polarization	Linear	
Impedance	50 Ohms	
Radiation Pattern	Omni	
Input Power	2W max.	
MECHANICAL		
Dimensions	66 x 16 x 0.8 mm	
Antenna Body Material	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

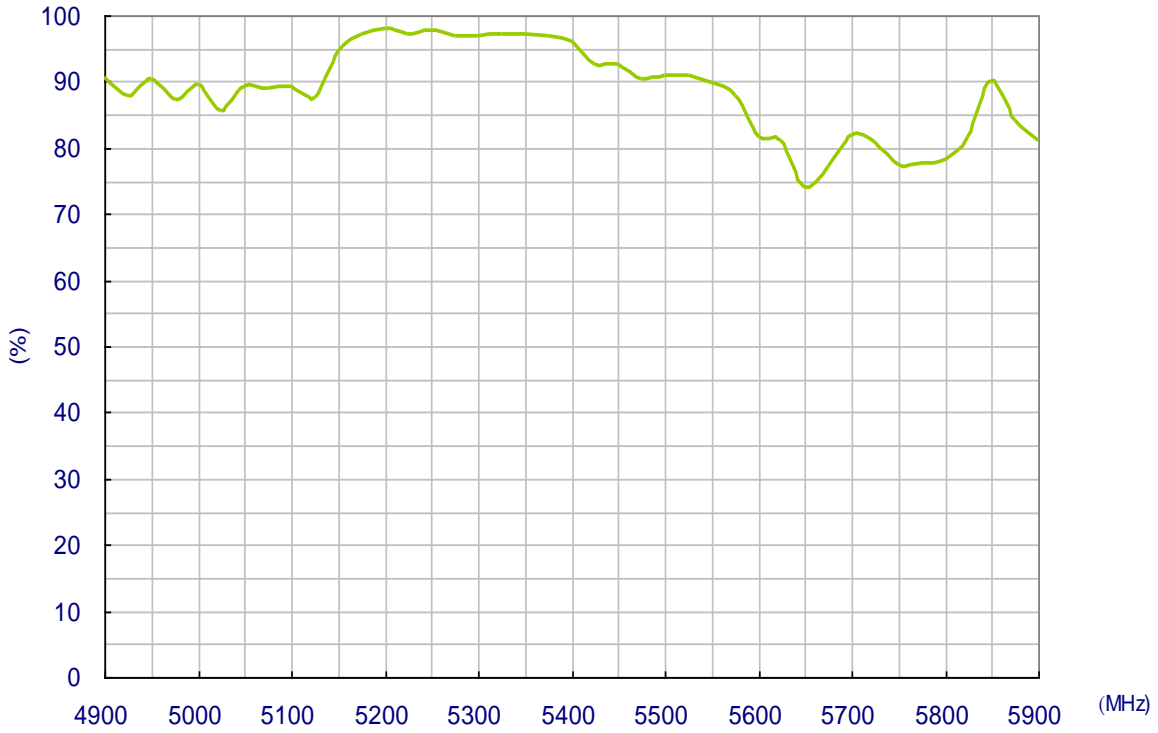
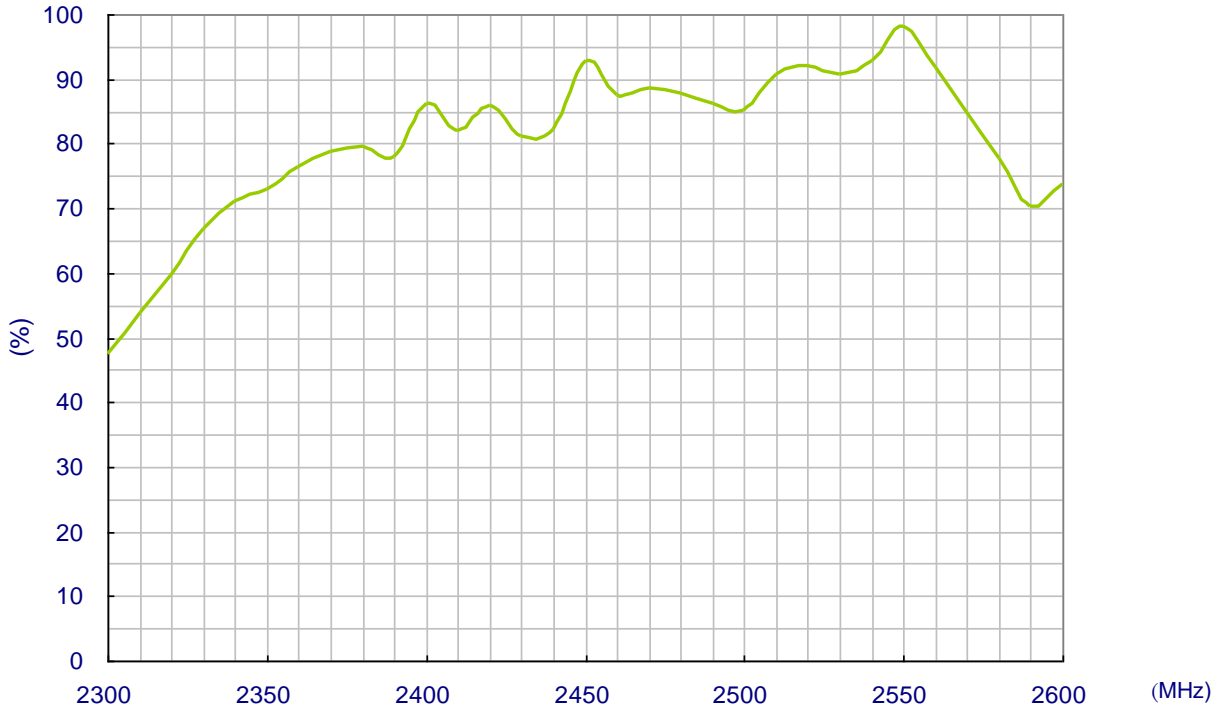
#### 3.1. Return Loss



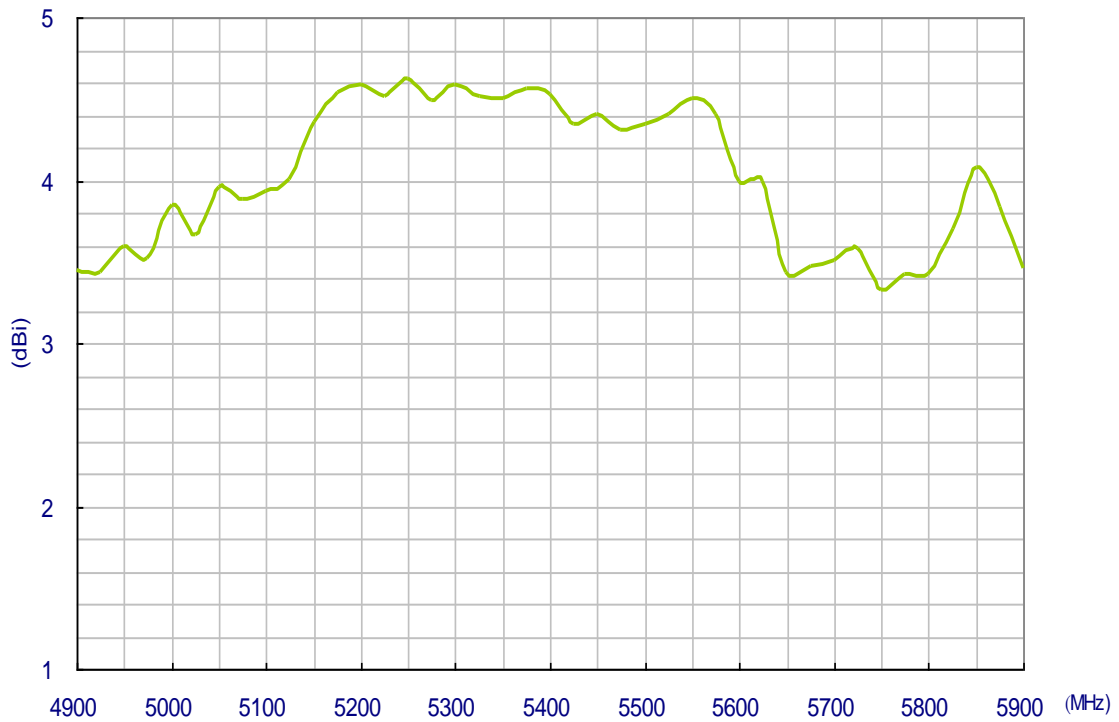
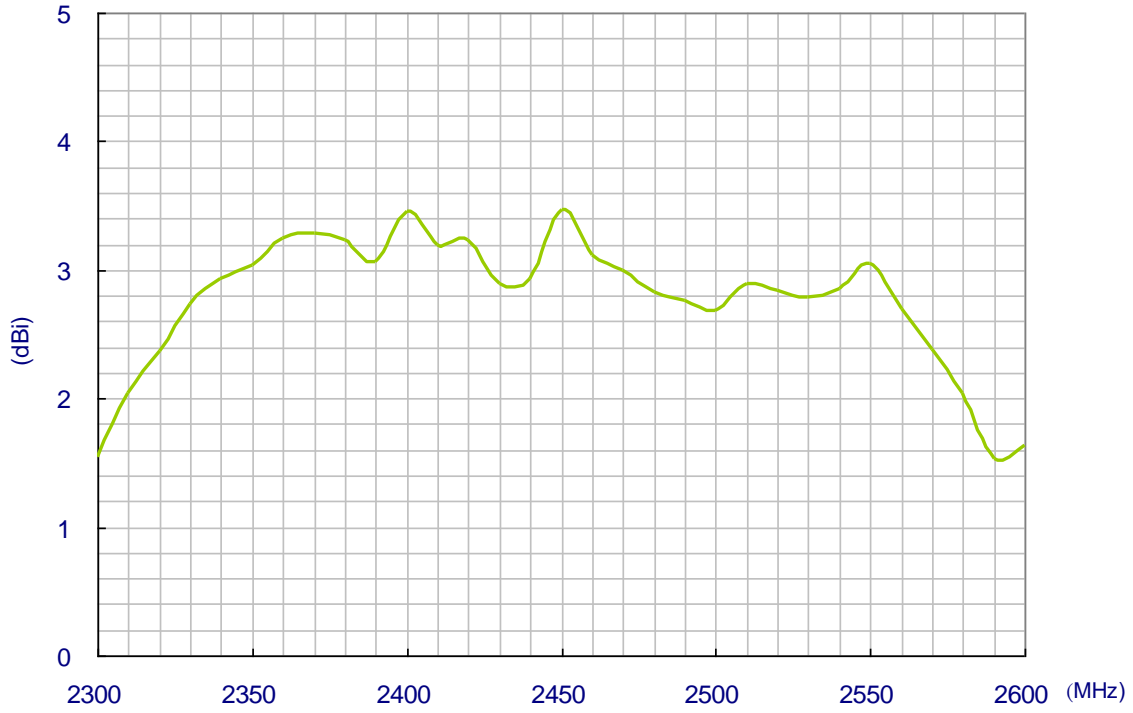
#### 3.2. VSWR



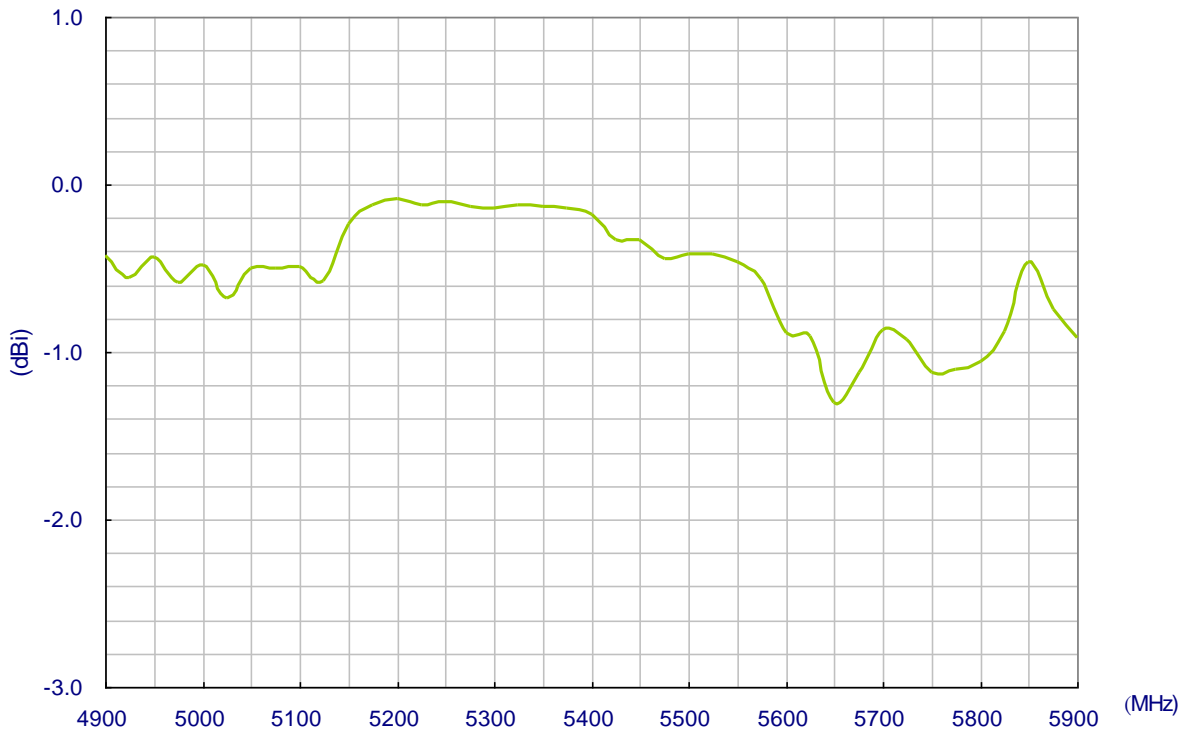
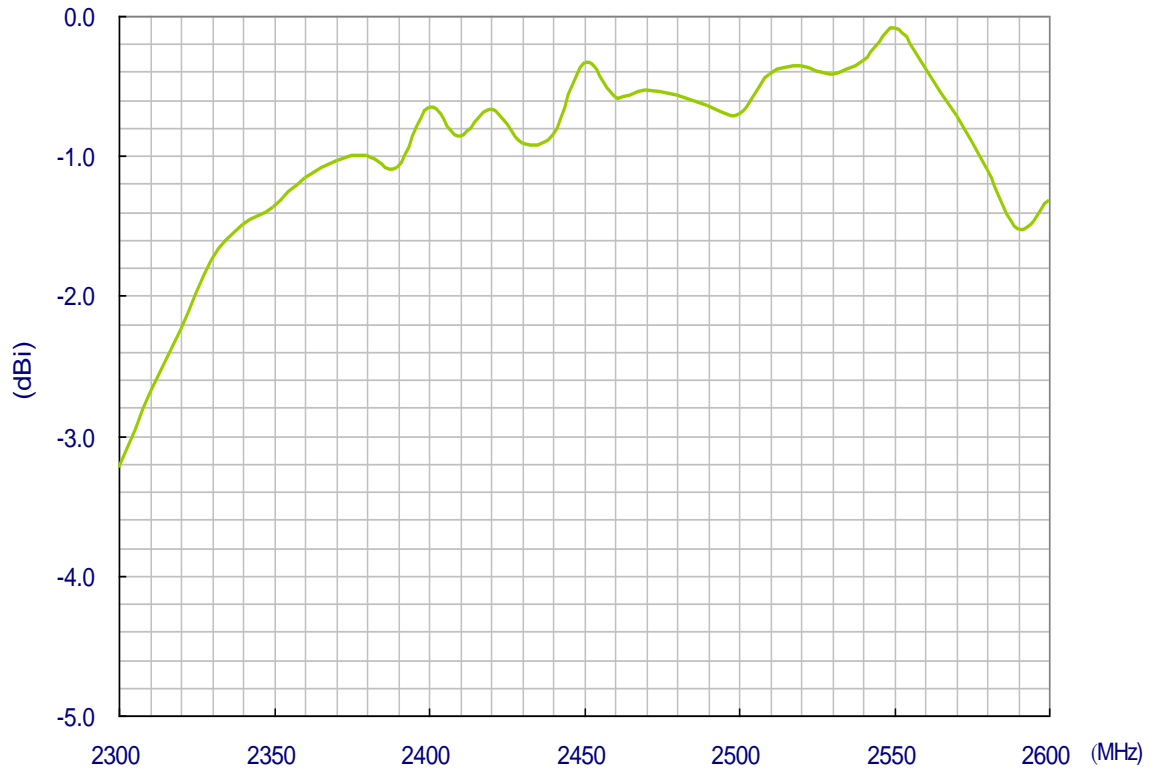
### 3.3. Antenna Efficiency



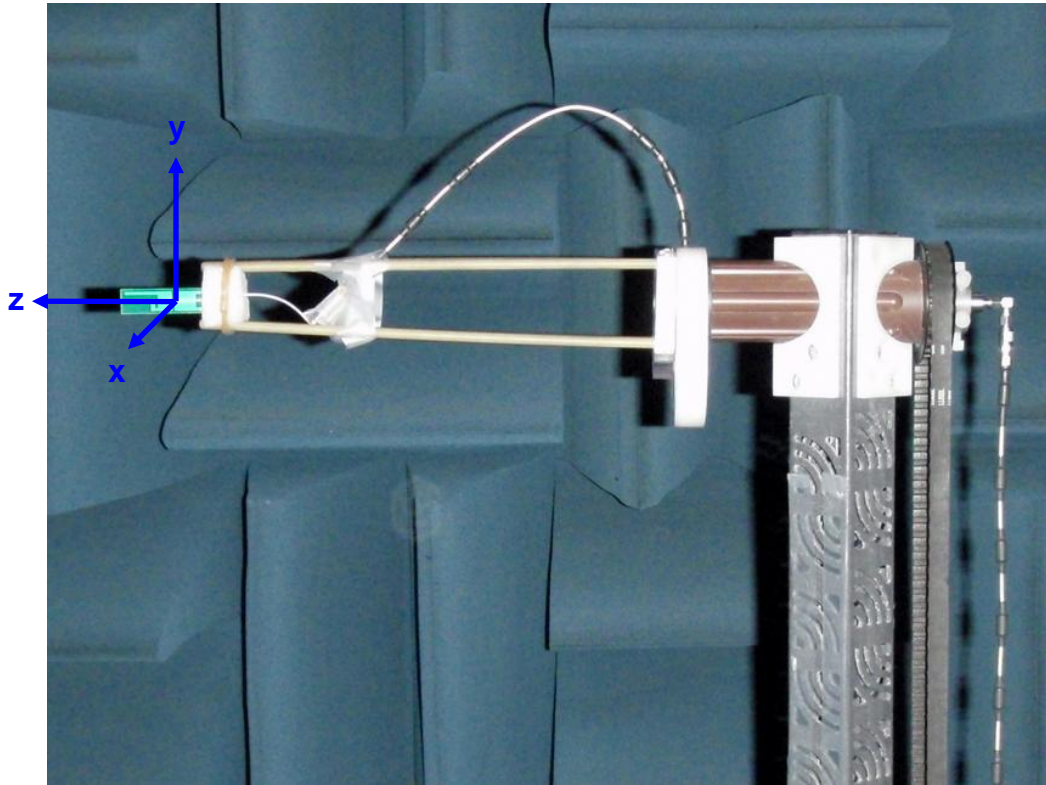
### 3.4. Antenna Peak Gain



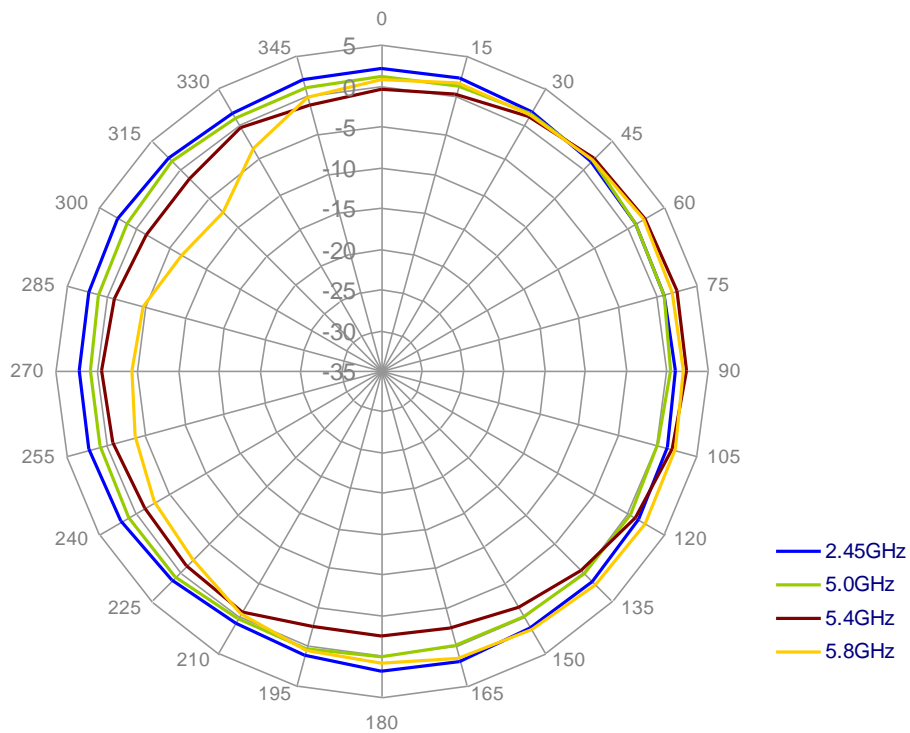
### 3.5. Antenna 3D Average Gain



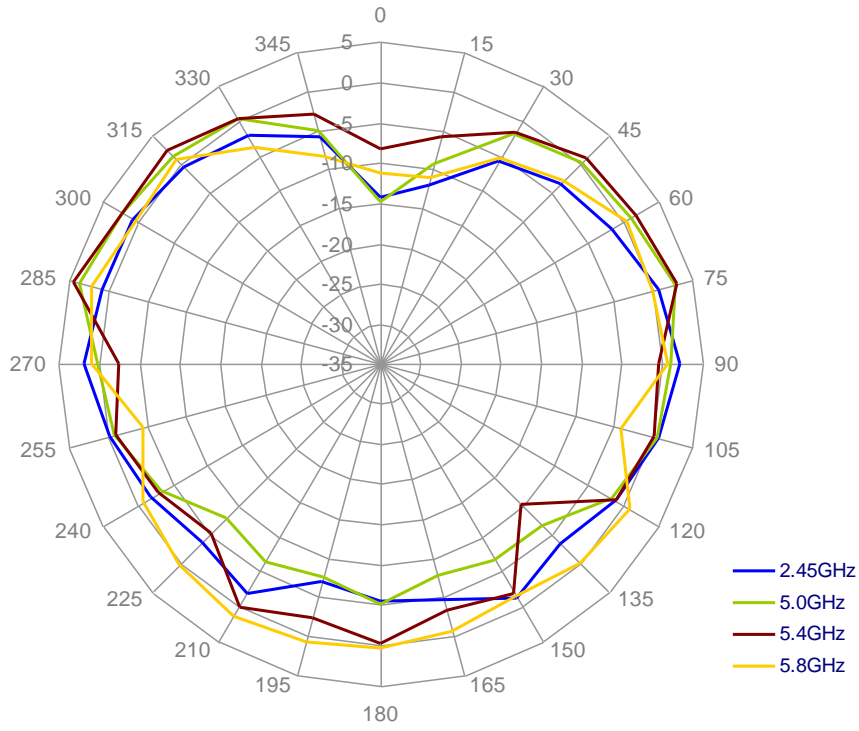
### 3.6. Radiation Pattern for PC11 on plastic



#### XY-plane

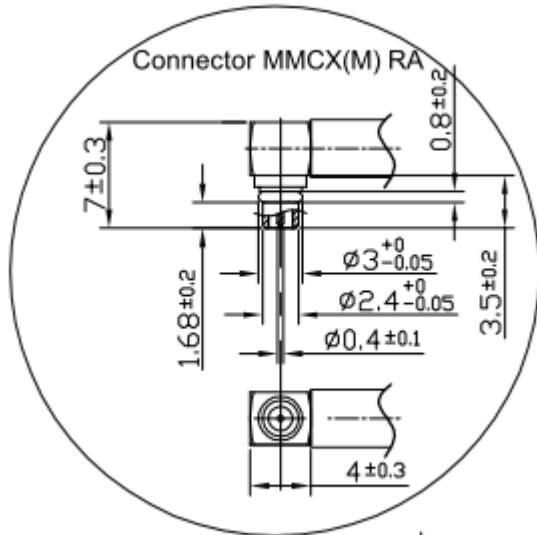


## XZ-plane





## 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

