



Specification

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



| Version | Date | Revision Description | Prepared | Approved |
|---------|--------------------------|----------------------------|-------------------|----------|
| A | Mar 3 rd 2011 | Antenna Measurement Update | TW Product Centre | Zita Lin |

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Specification

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 | |

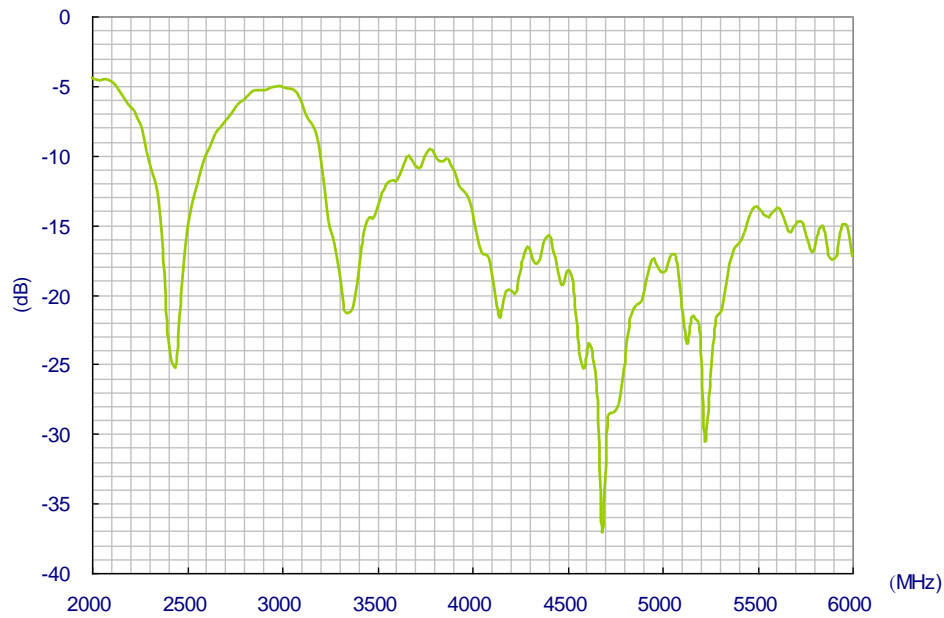
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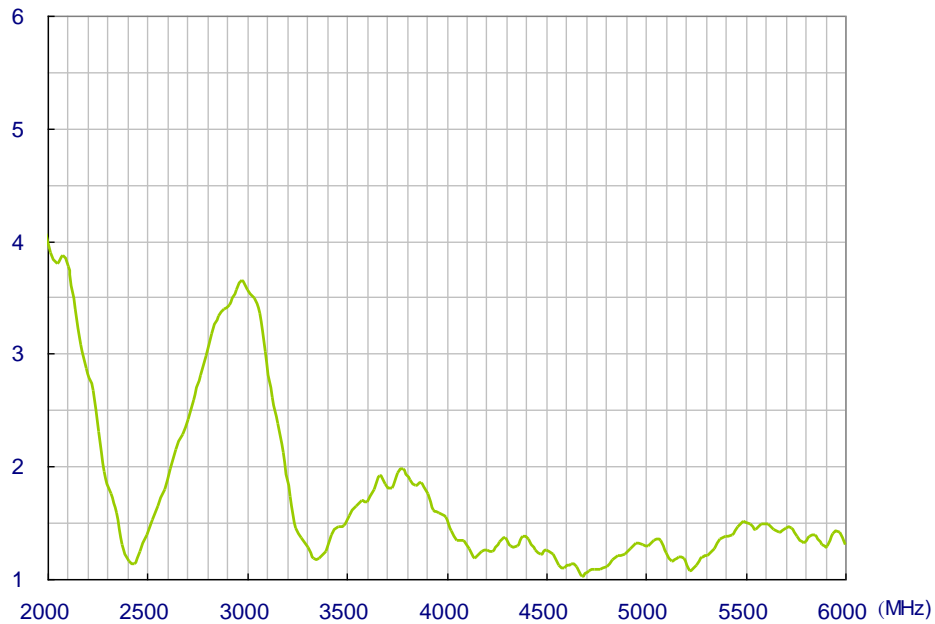


III. Antenna Characteristics

III.1. Return Loss



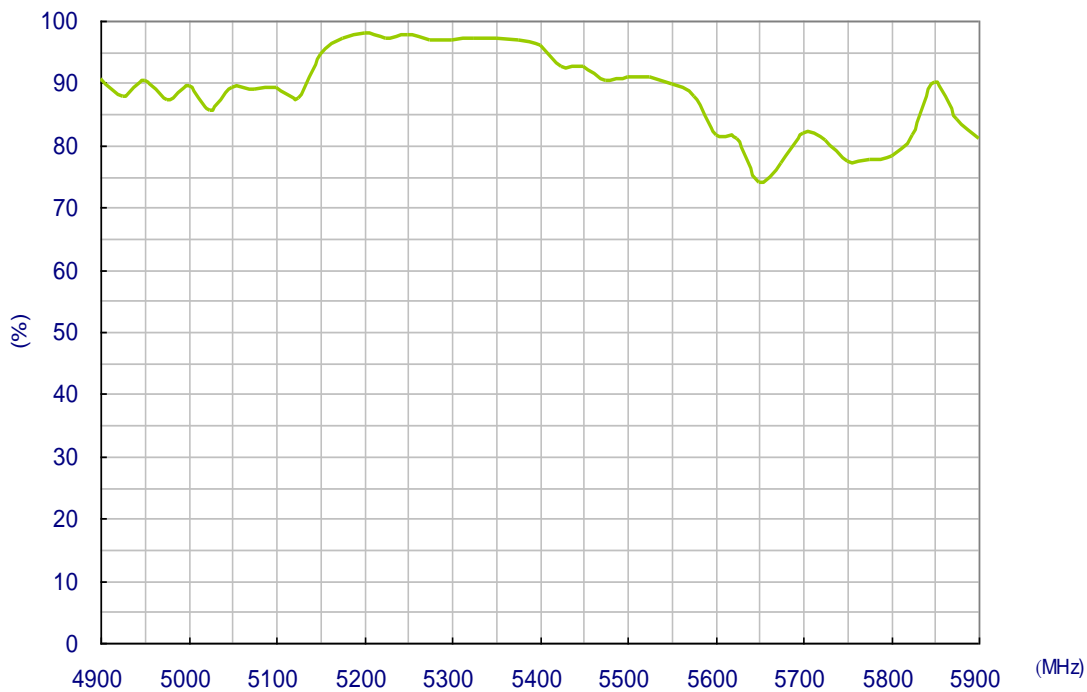
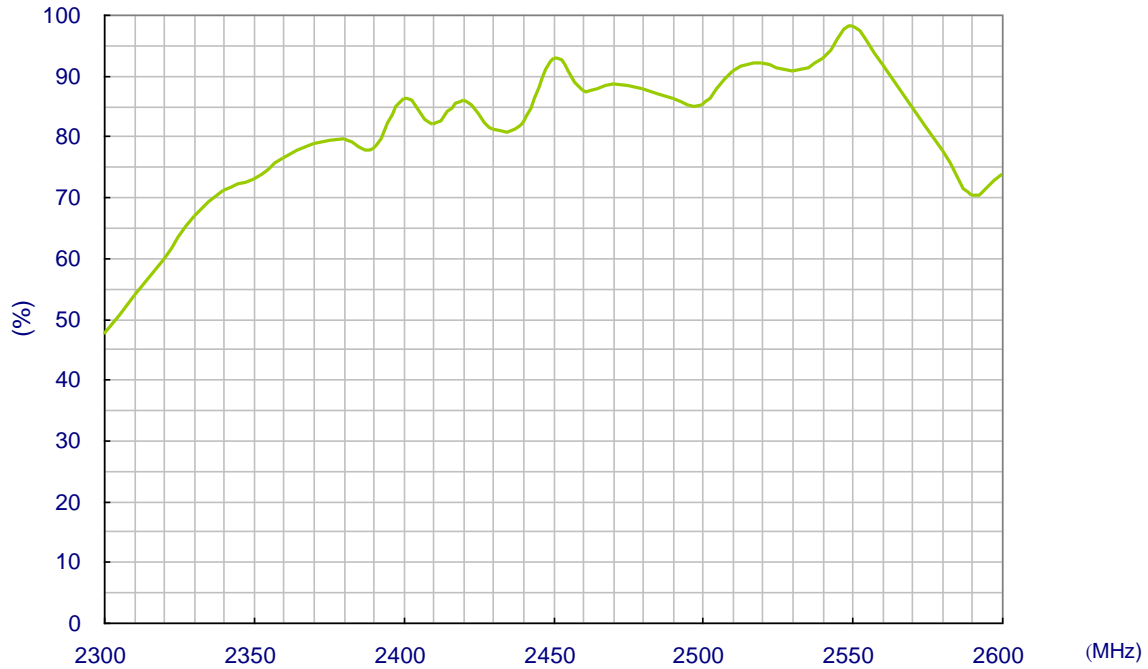
III.2. VSWR





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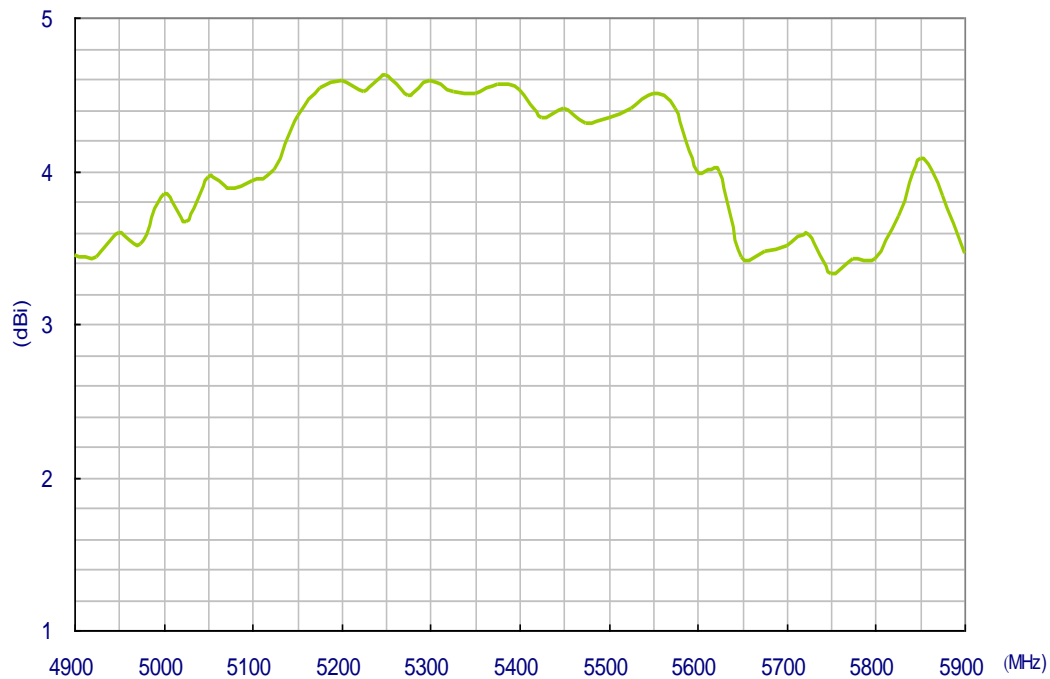
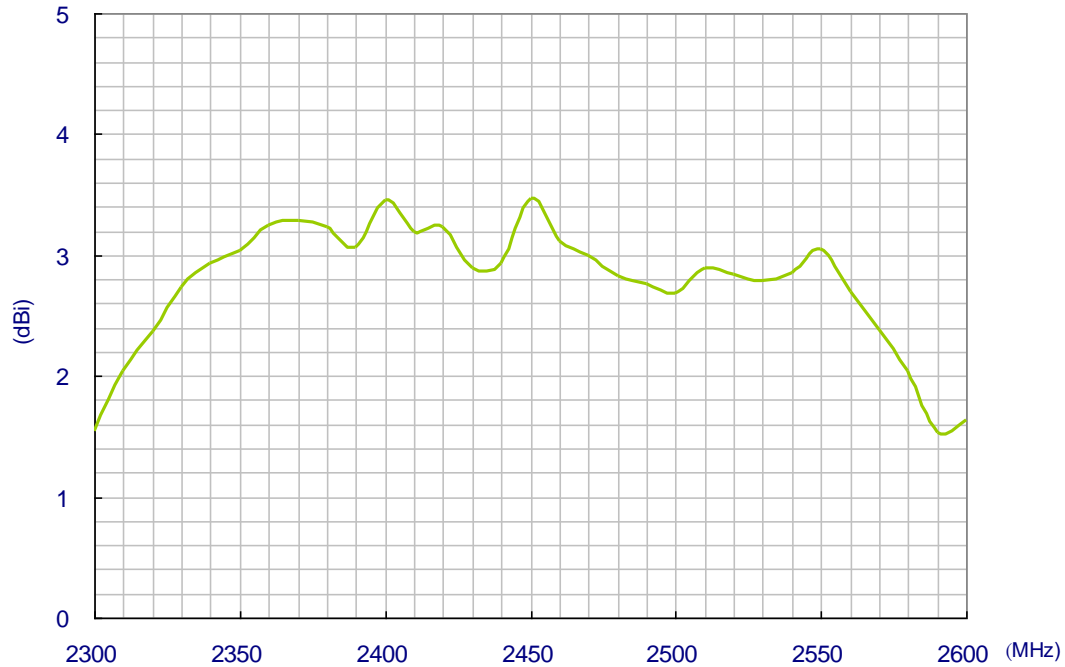
III.3. Antenna Efficiency





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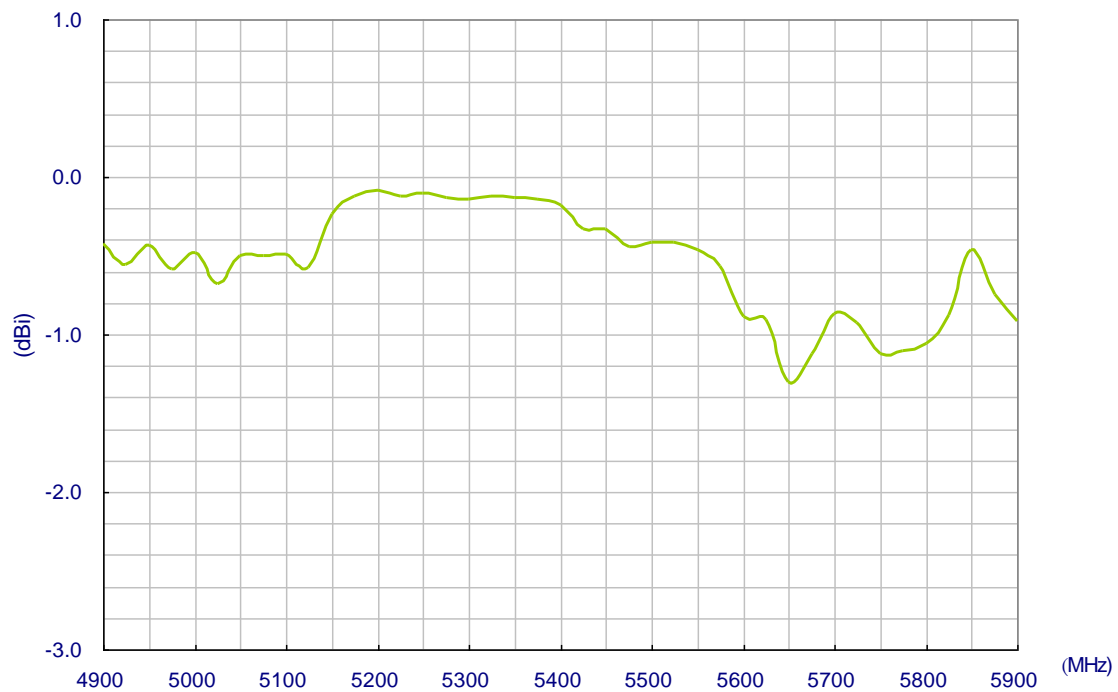
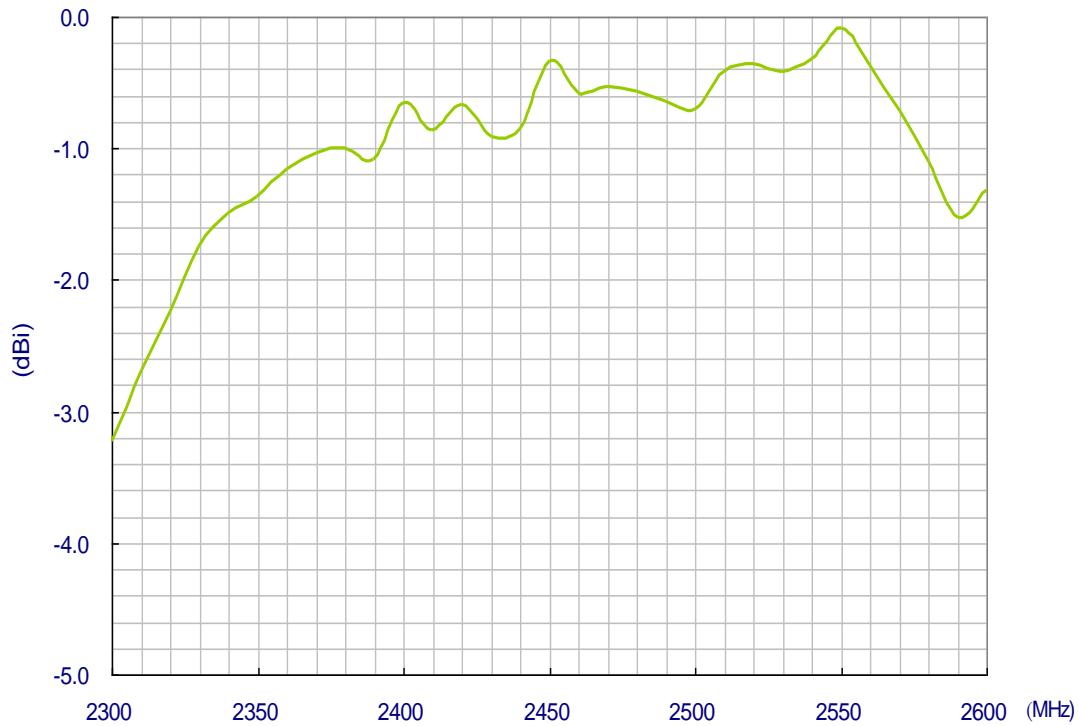
III.4. Antenna Peak Gain





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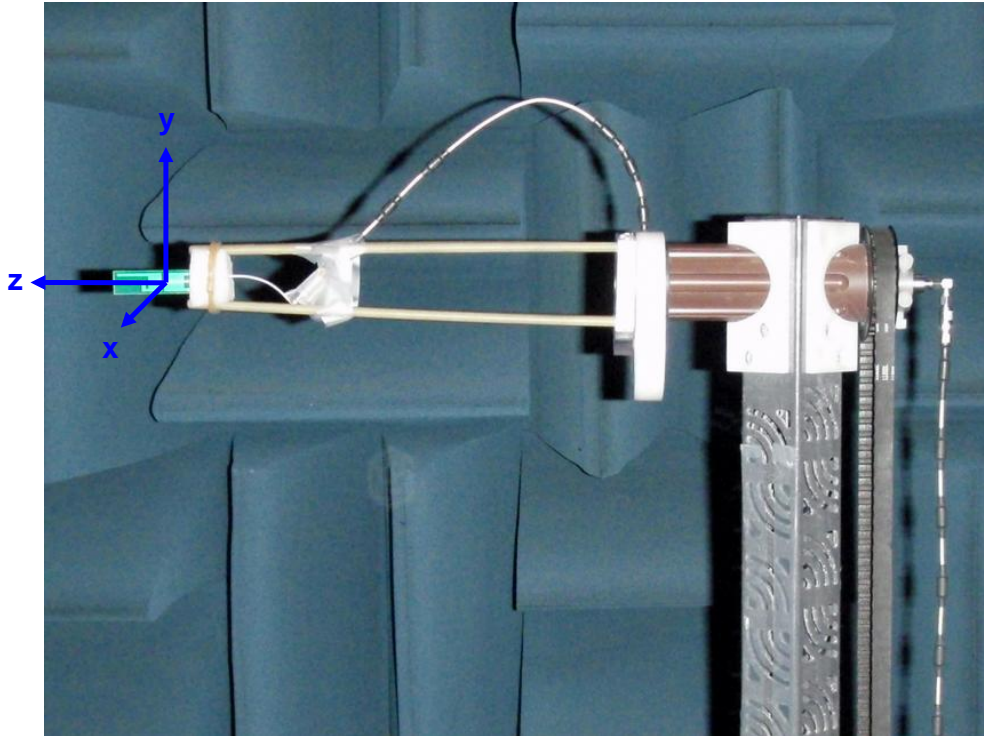
III.5. Antenna 3D Average Gain



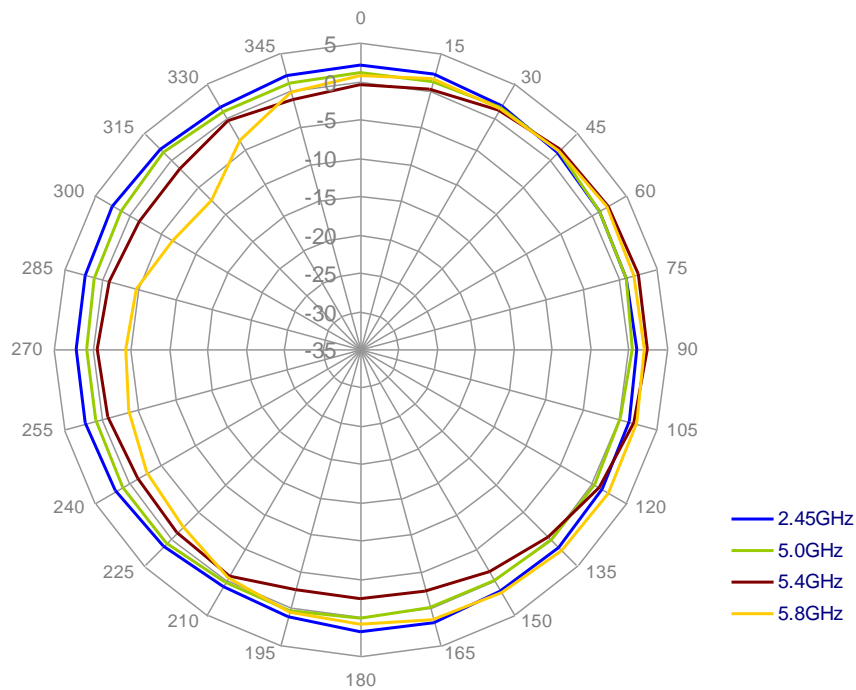


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III.6. Radiation Pattern for FXP.830 on plastic



XY-plane

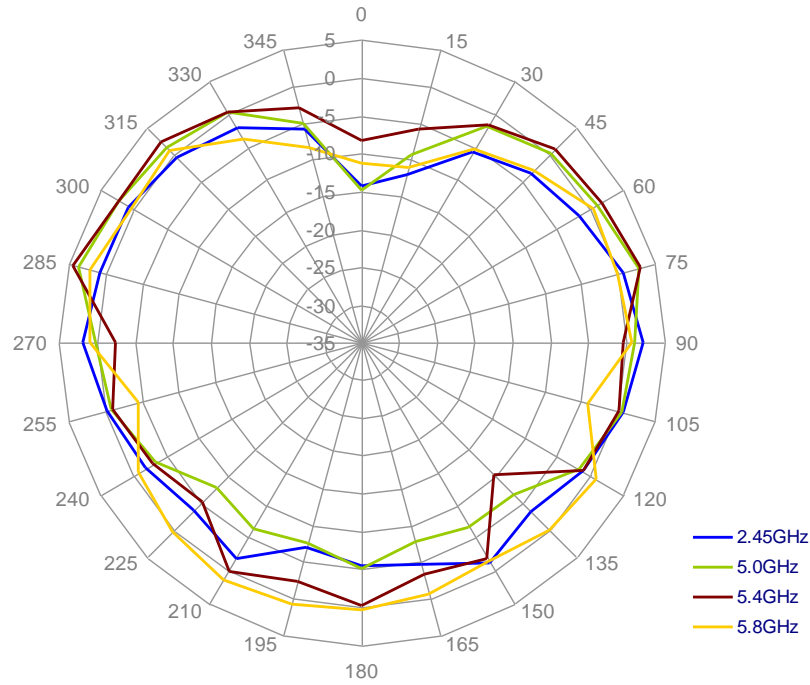


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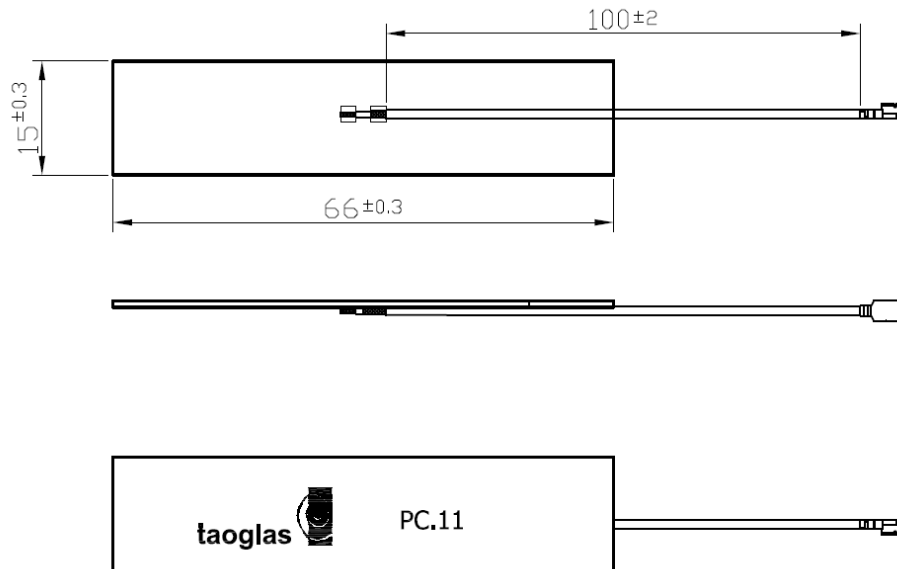
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XZ-plane





IV. Antenna Drawing



Unit : mm