

SPECIFICATION

Part No. : **TG.10.0113**

Product Name : **Triton** - 2G/3G/4G Terminal Antenna for Cellular modules with Assisted GPS Hinged SMA(M)

Feature : Dipole Terminal Antenna
Hinged SMA(M) Connector
Dimensions: Length 168*18*13mm,Φ13mm
RoHS Compliant



1. Introduction

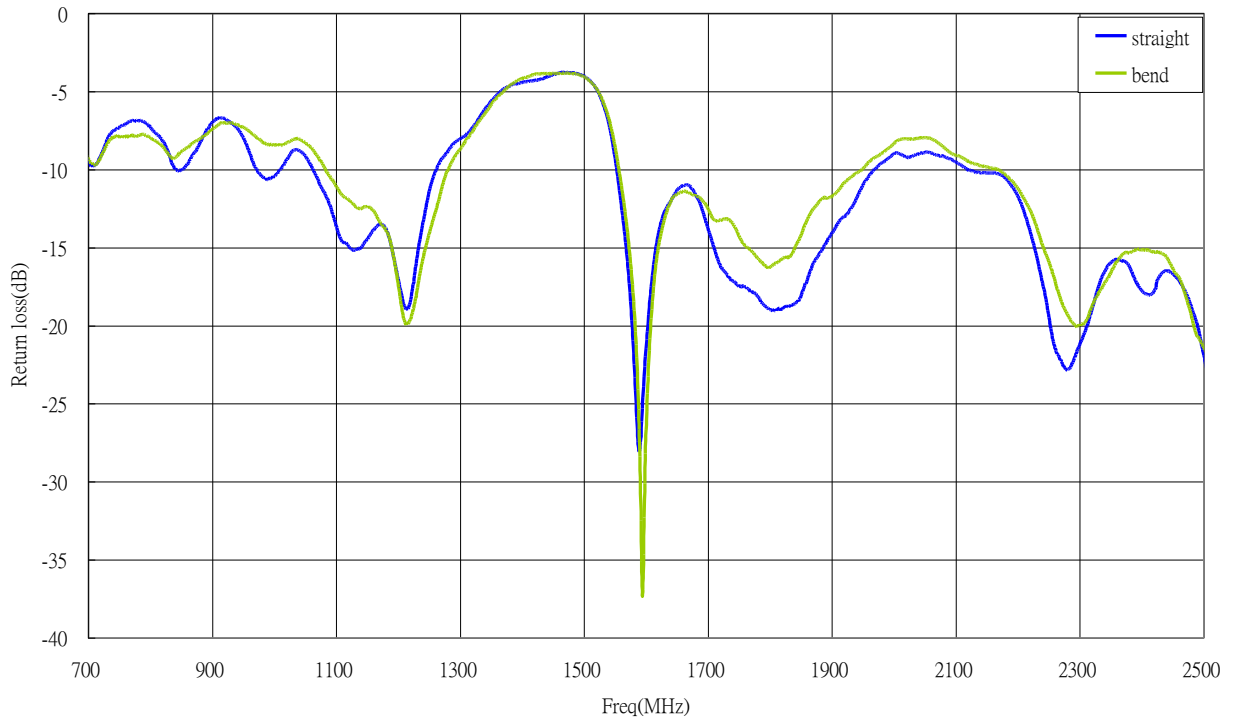
The TG.10 Triton dipole Antenna – is primarily designed for use with CDMA modules with assisted GPS. It does not require a ground-plane to connect to. It has a quality robust PUS housing for use with wireless terminals. The antenna has a SMA(M) connector. It can be used straight or hinged 90 degrees. The antenna has a wide-band response and can also be used for other cellular and wireless applications such as GSM, LTE, UMTS, and WI-FI.

2. Specification

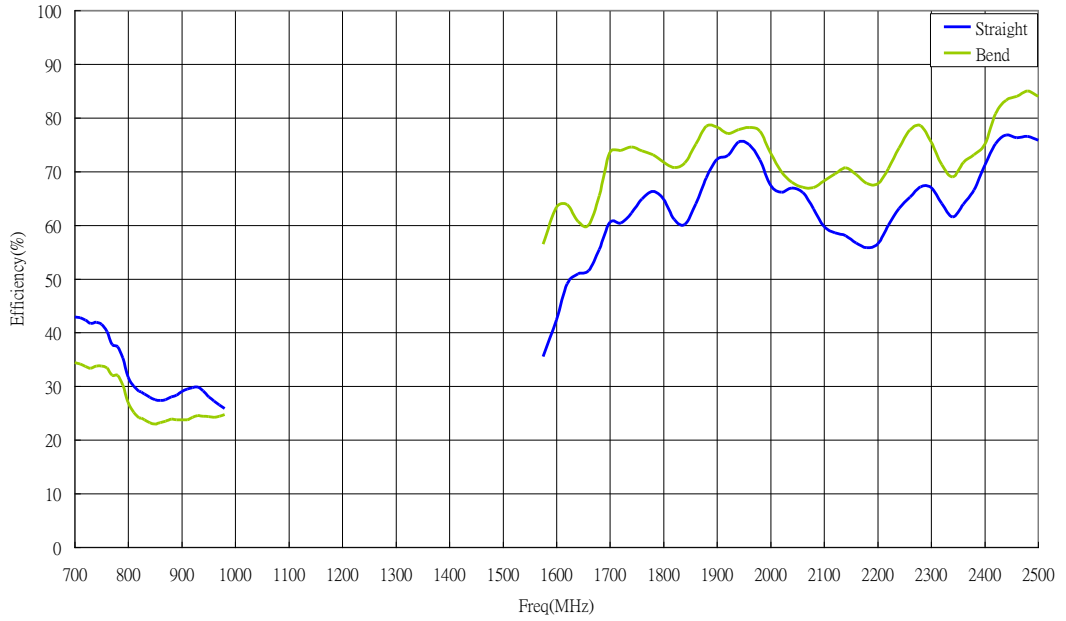
| CELLULAR | | | | | | | |
|-------------------|----------------------------|---------|---------|-------------|-------------|-------------|-----------|
| Frequency (MHz) | 700~800 | 824~960 | 1575.42 | 1710 ~ 1880 | 1850 ~ 1990 | 1710 ~ 2170 | 2400~2500 |
| Peak Gain (dBi) | | | | | | | |
| Straight | -0.5 | -0.5 | 0.5 | 1.0 | 2.0 | 1.5 | 3.0 |
| Bend | -1.5 | -3.0 | 1.5 | 2.5 | 2.5 | 2.5 | 4.0 |
| Efficiency | | | | | | | |
| Straight | 38% | 30% | 35% | 60% | 65% | 55% | 75% |
| Bend | 35% | 25% | 55% | 70% | 75% | 70% | 85% |
| Impedance | 50Ω | | | | | | |
| Polarization | Linear | | | | | | |
| Radiation Pattern | Omni | | | | | | |
| Input Power | 50 W | | | | | | |
| MECHANICAL | | | | | | | |
| Dimensions | Length 168*18*13mm,Φ13mm | | | | | | |
| Casing | PU | | | | | | |
| Connector | Hinged SMA Male | | | | | | |
| ENVIRONMENTAL | | | | | | | |
| Temperature Range | -40°C to 85°C | | | | | | |
| Humidity | Non-condensing 65°C 95% RH | | | | | | |

3. Antenna Characteristics

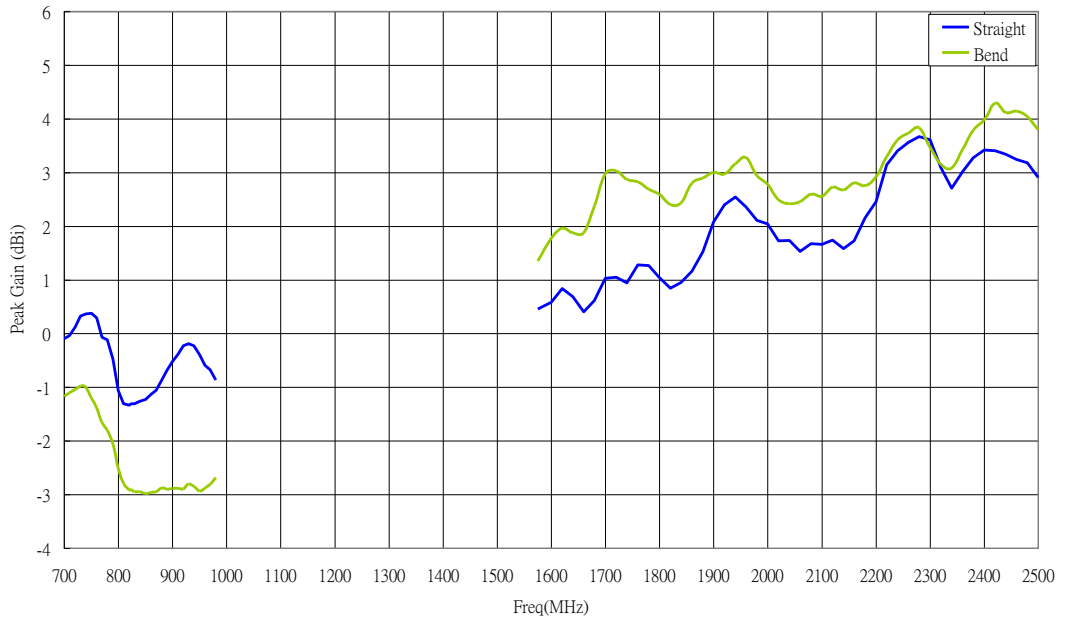
3.1 Return loss



3.2 Antenna Efficiency



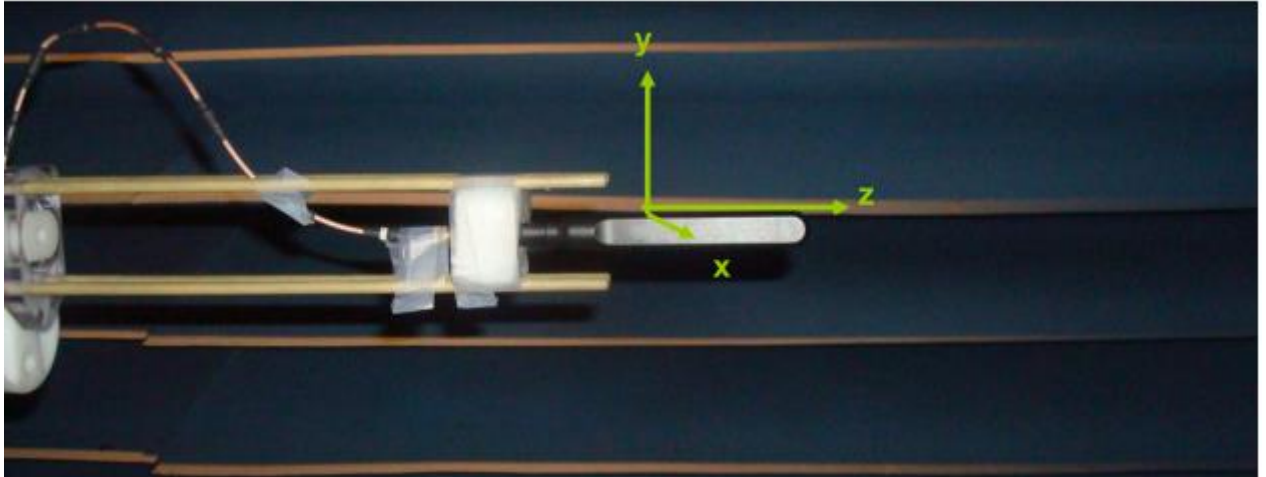
3.3 Peak Gain



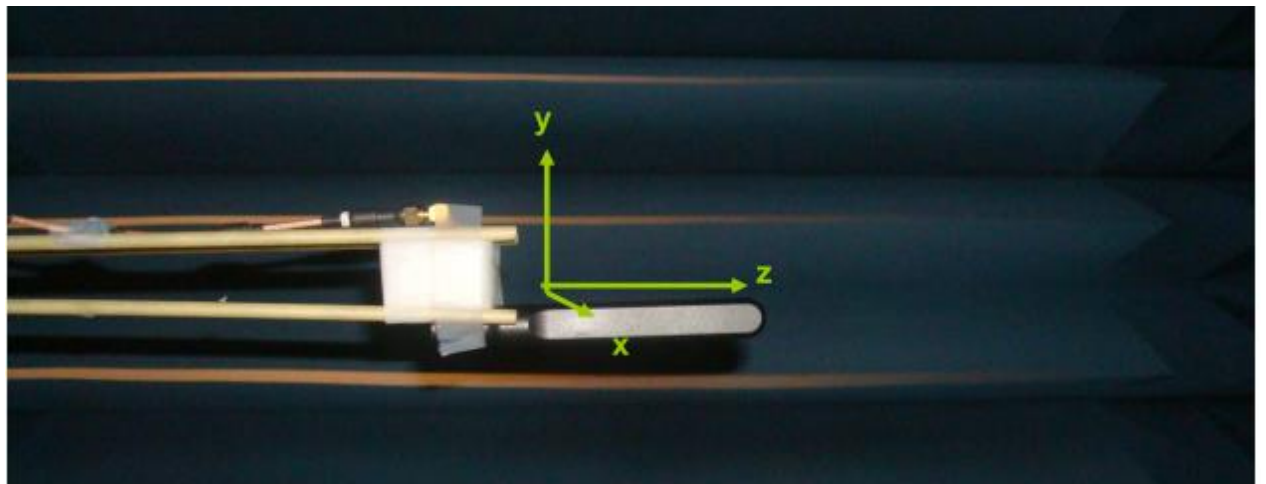
4. Antenna Radiation Pattern

4.1 Antenna Stand Alone

4.1.1 Straight

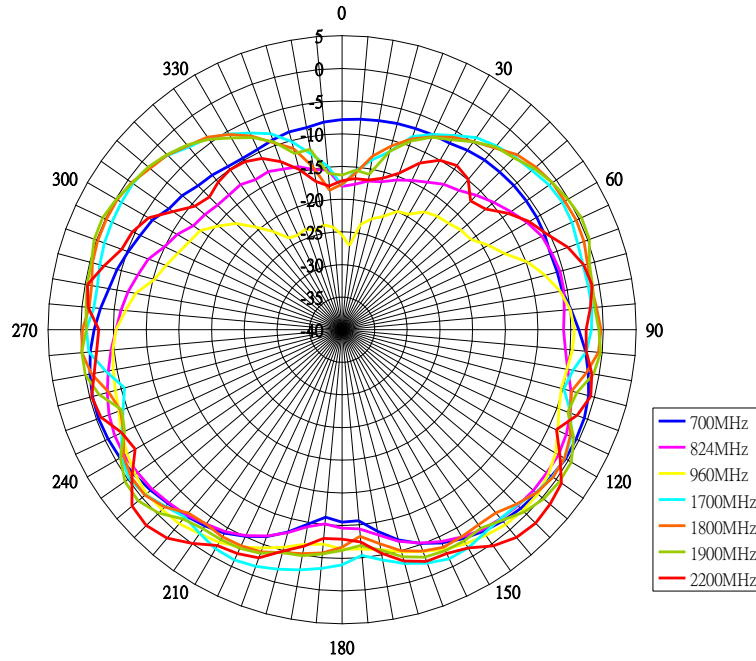


4.1.2 Bend

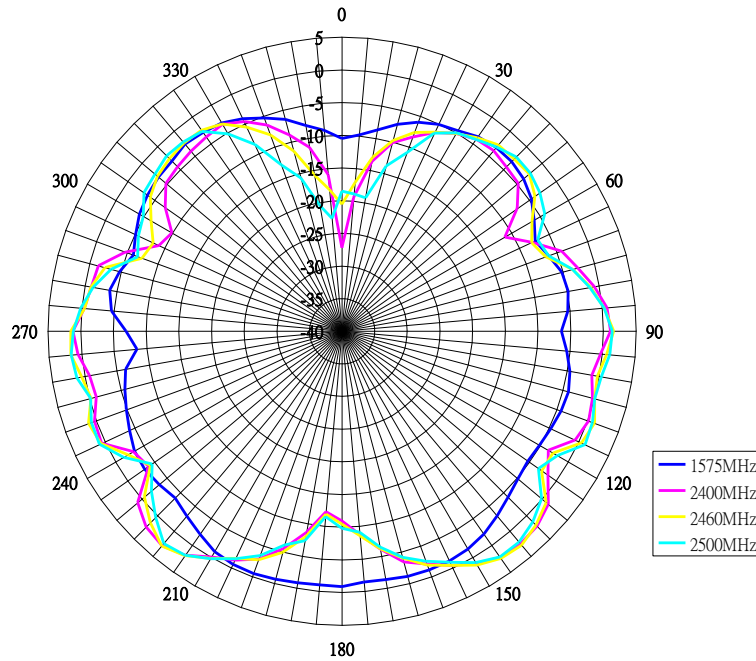


4.2 XZ –plane

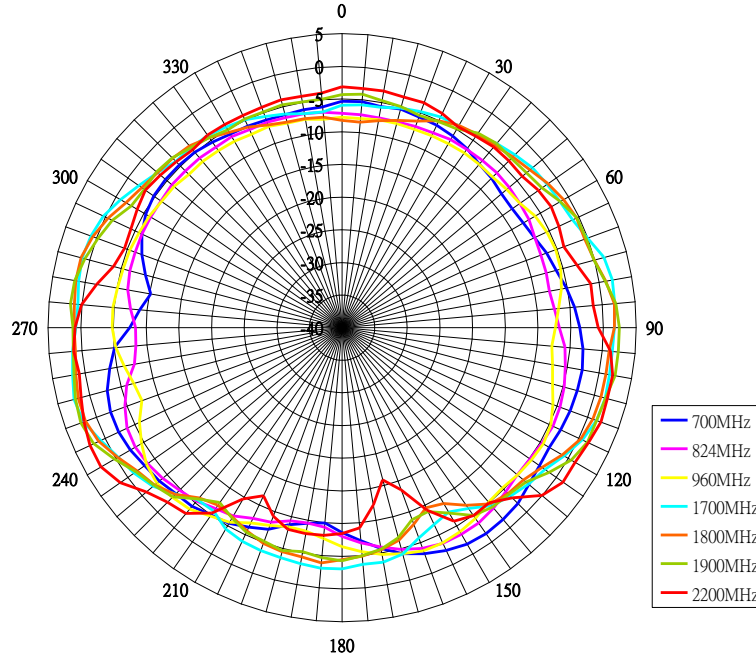
4.2.1 Straight (Cellular)



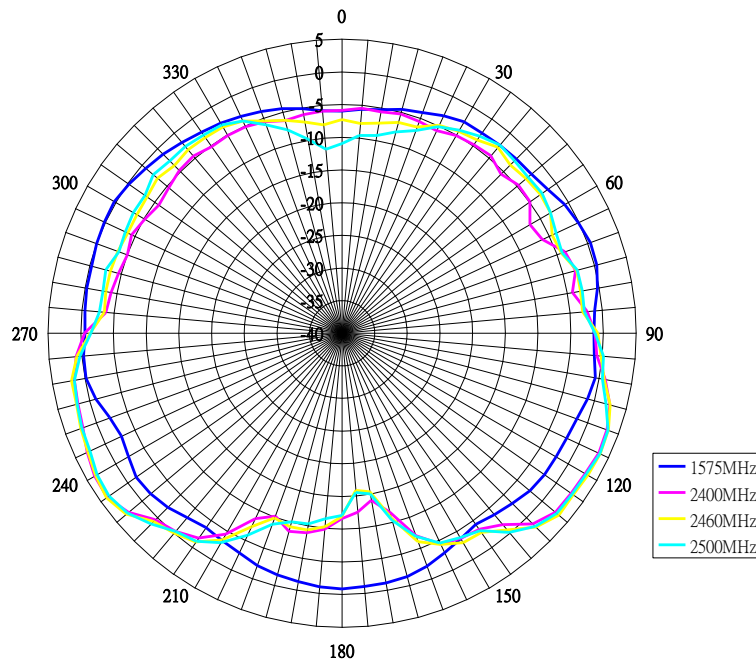
4.2.2 Straight (GPS & WiFi)



4.2.3 Bend (Cellular)

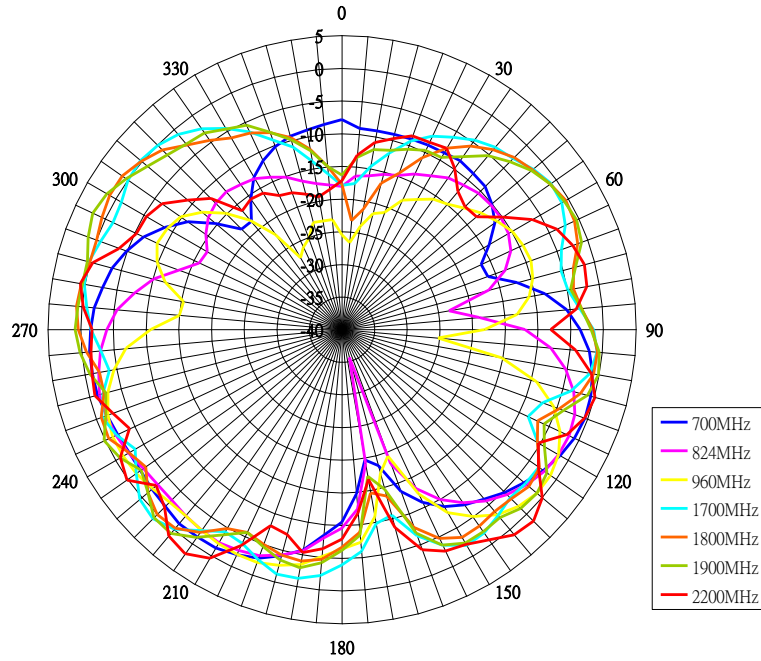


4.2.4 Bend (GPS & WiFi)

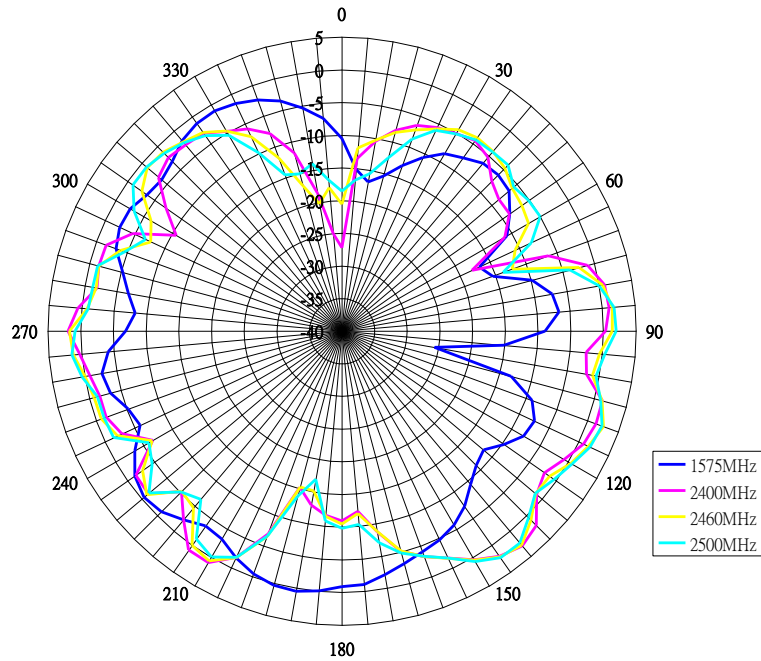


4.3 YZ –plane

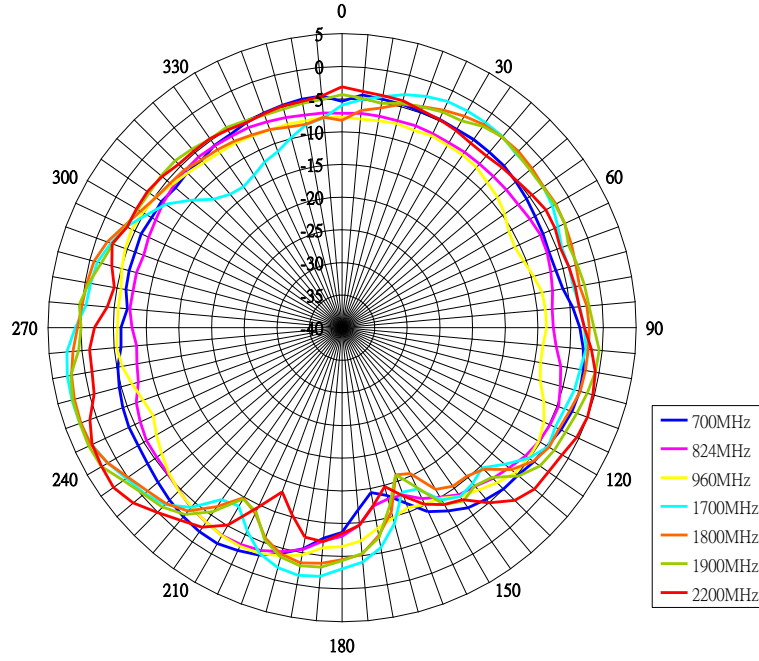
4.3.1 Straight (Cellular)



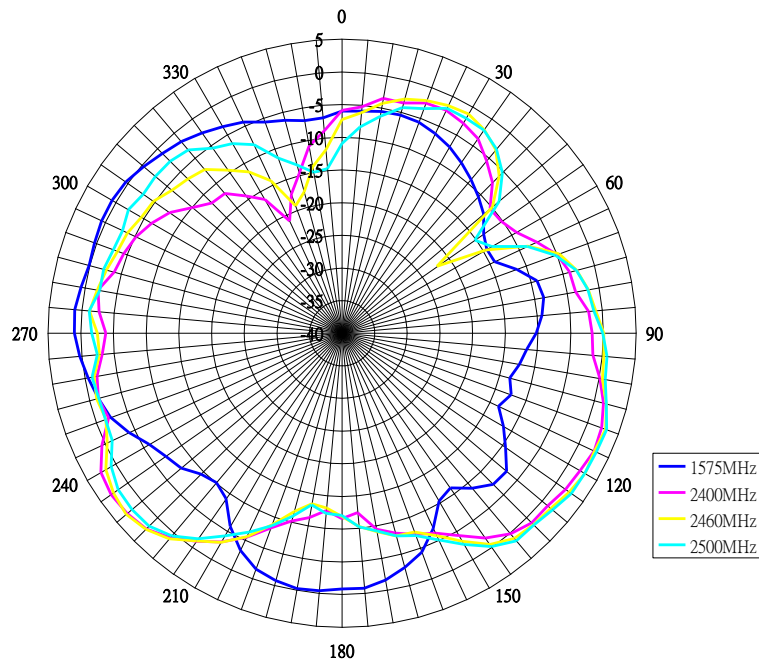
4.3.2 Straight (GPS & WiFi)



4.3.3 Bend (Cellular)

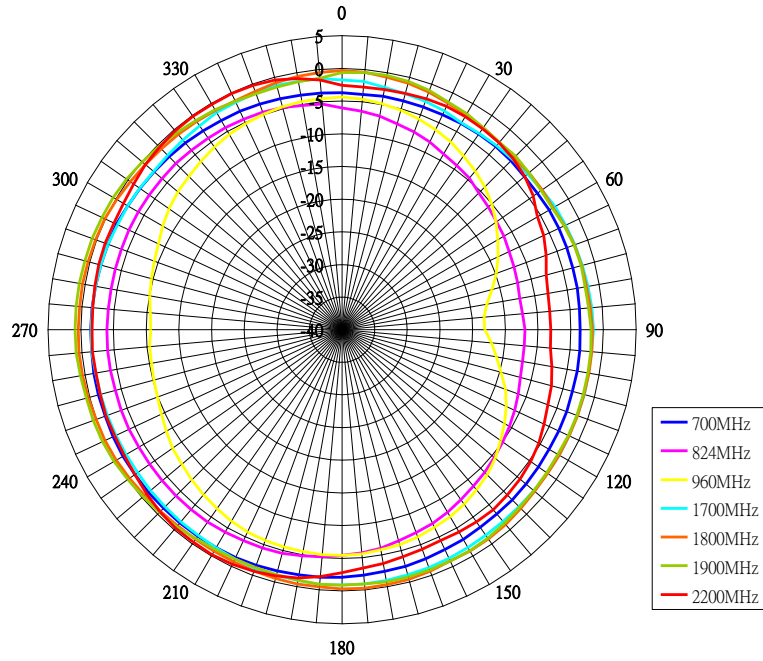


4.3.4 Bend (GPS & WiFi)

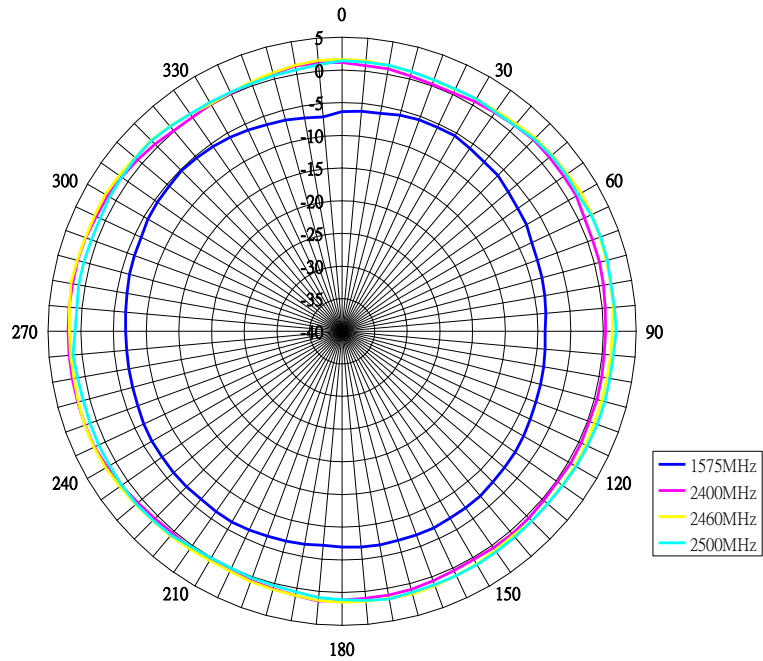


4.4 XY -plane

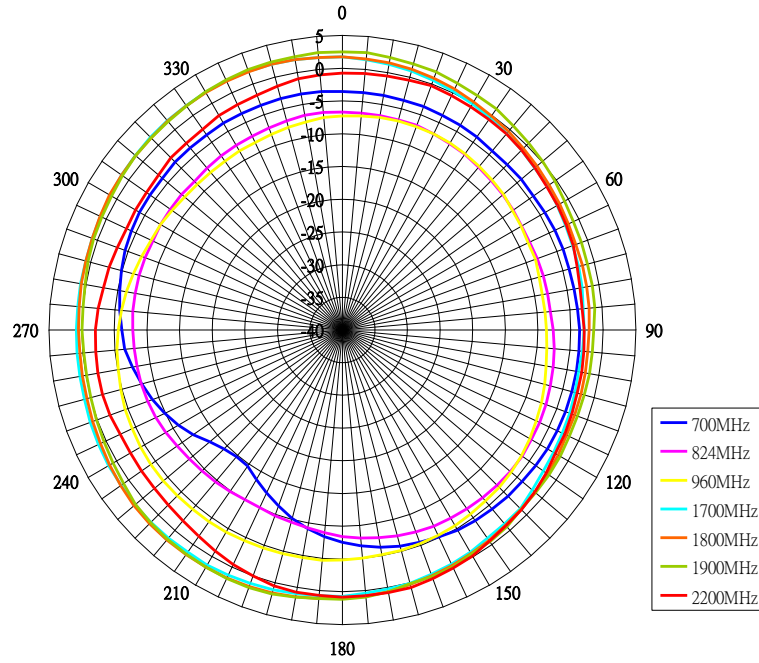
4.4.1 Straight (Cellular)



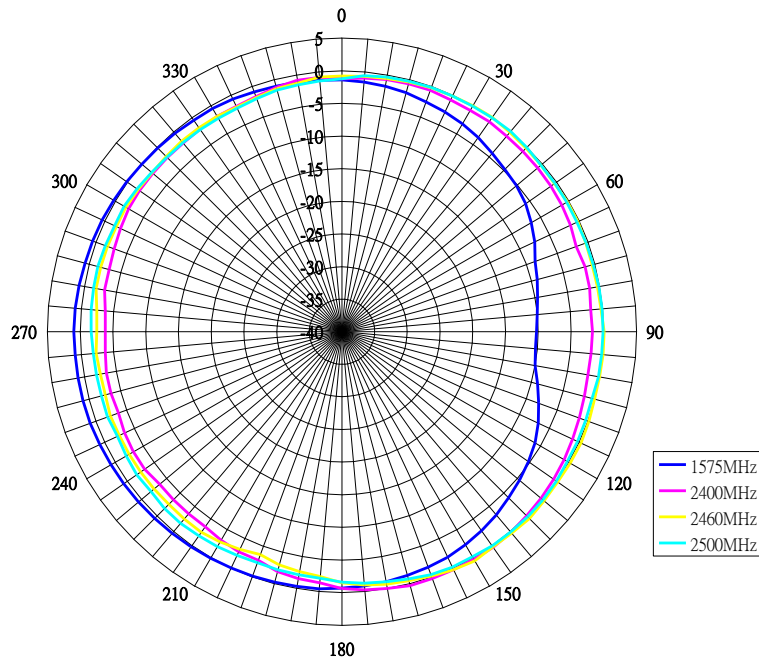
4.4.2 Straight (GPS & WiFi)



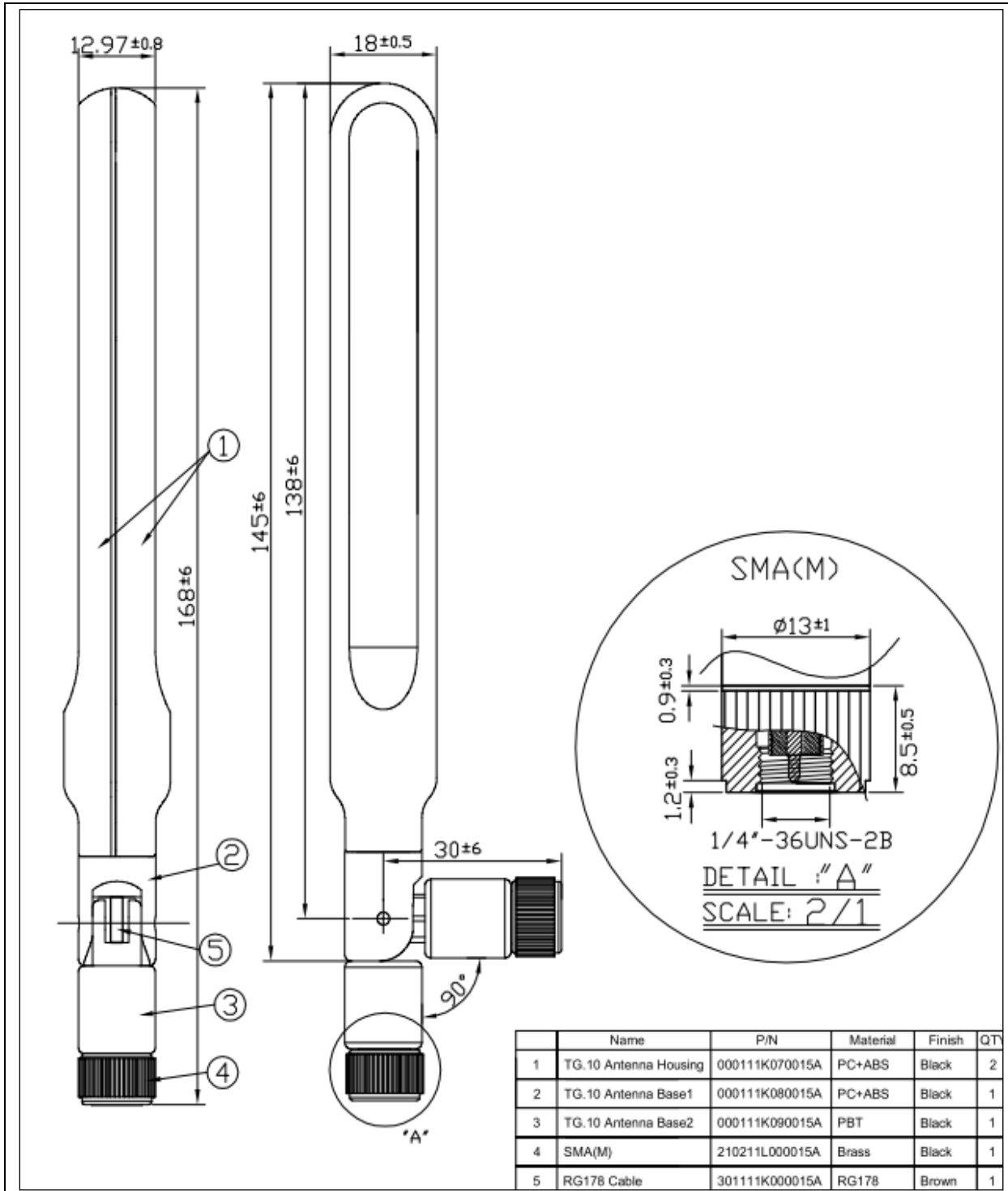
4.4.3 Bend (Cellular)



4.4.4 Bend (GPS & WiFi)



5. Drawing



Unit : mm

6. Packaging

