

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

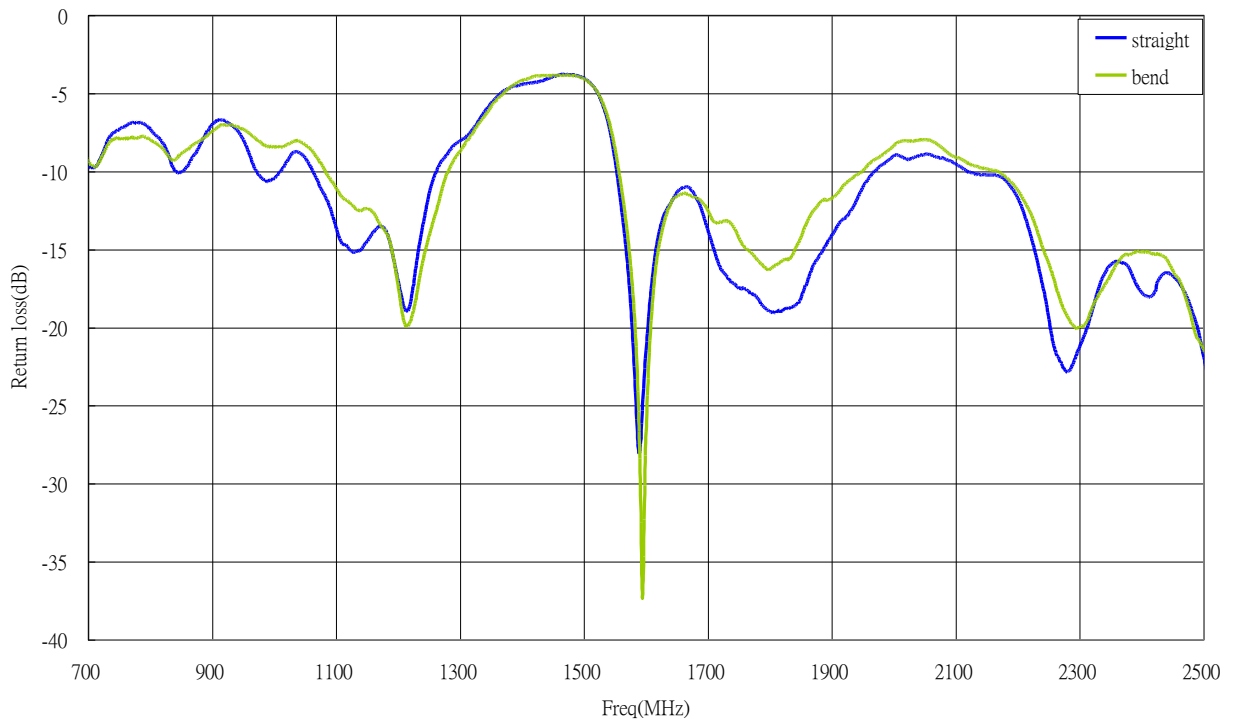
The TG.10 Triton dipole Antenna – is primarily designed for use with CDMA modules with assisted GPS. It does not require a ground-plane to connect to. It has a quality robust PUS housing for use with wireless terminals. The antenna has a SMA(M) connector. It can be used straight or hinged 90 degrees. 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

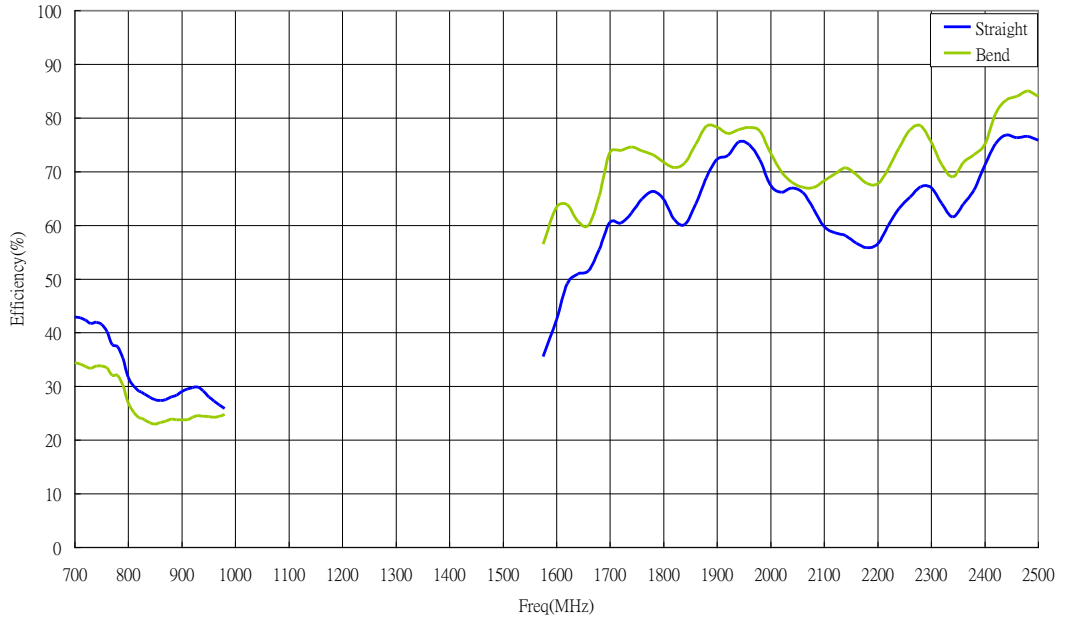
CELLULAR							
Frequency (MHz)	700~800	824~960	1575.42	1710 ~ 1880	1850 ~ 1990	1710 ~ 2170	2400~2500
Peak Gain (dBi)							
Straight	-0.5	-0.5	0.5	1.0	2.0	1.5	3.0
Bend	-1.5	-3.0	1.5	2.5	2.5	2.5	4.0
Efficiency							
Straight	38%	30%	35%	60%	65%	55%	75%
Bend	35%	25%	55%	70%	75%	70%	85%
Impedance	50Ω						
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

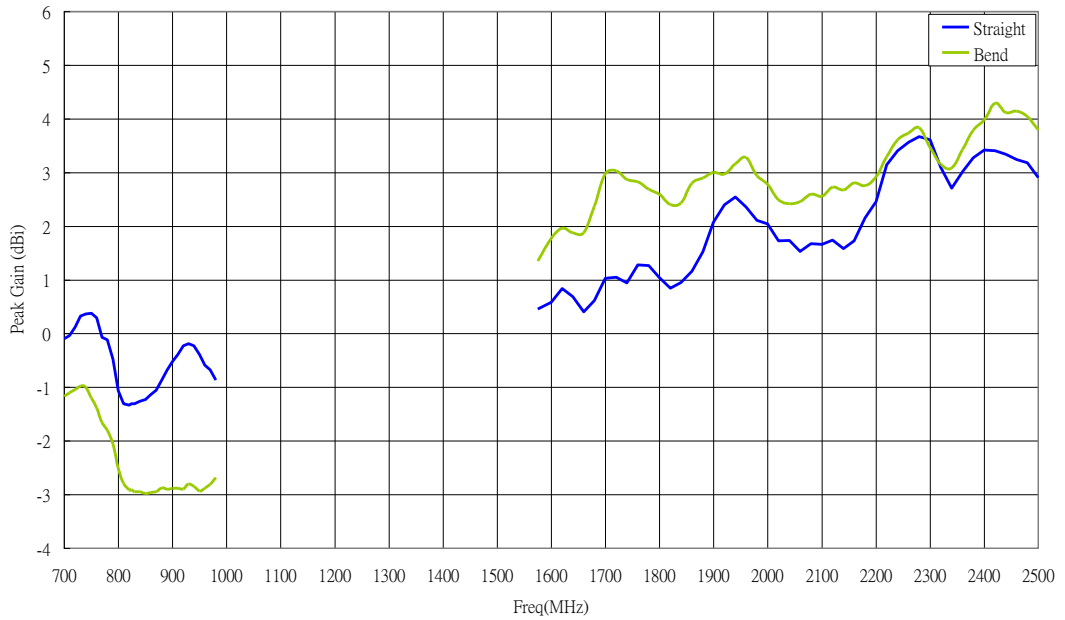
3.1 Return loss



3.2 Antenna Efficiency



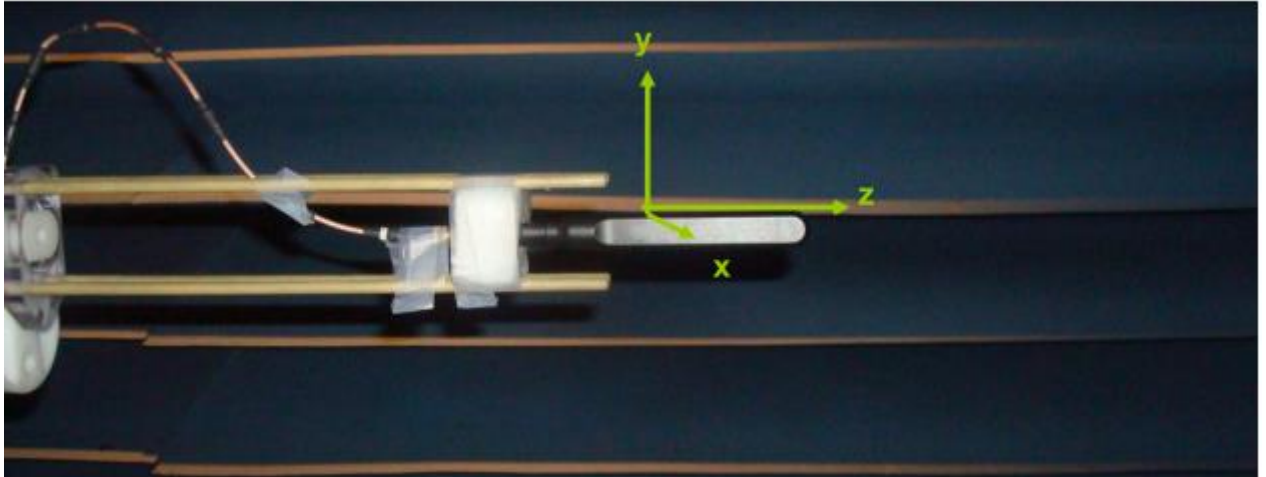
3.3 Peak Gain



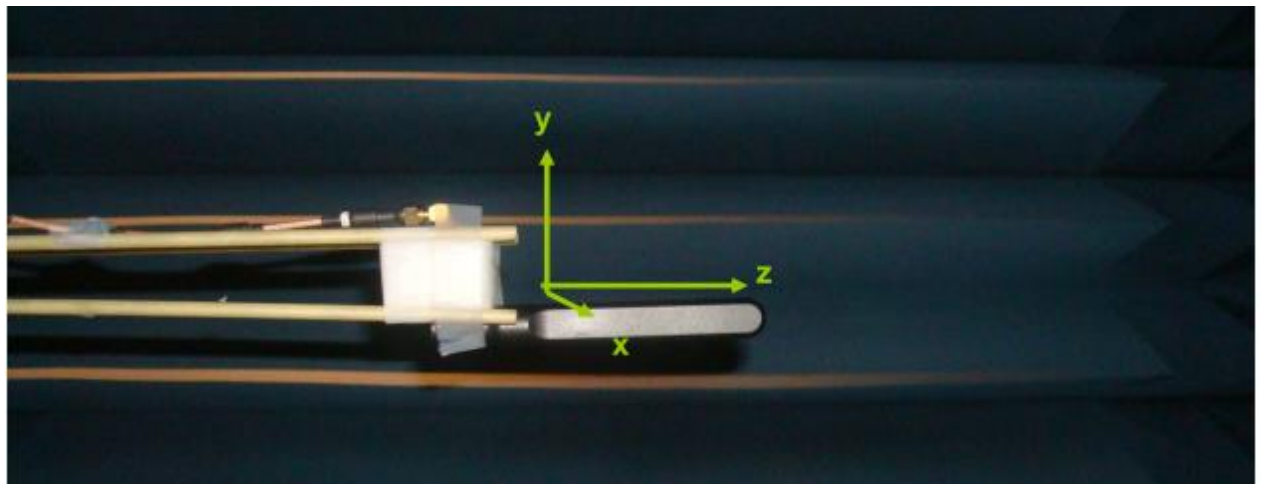
4. Antenna Radiation Pattern

4.1 Antenna Stand Alone

4.1.1 Straight

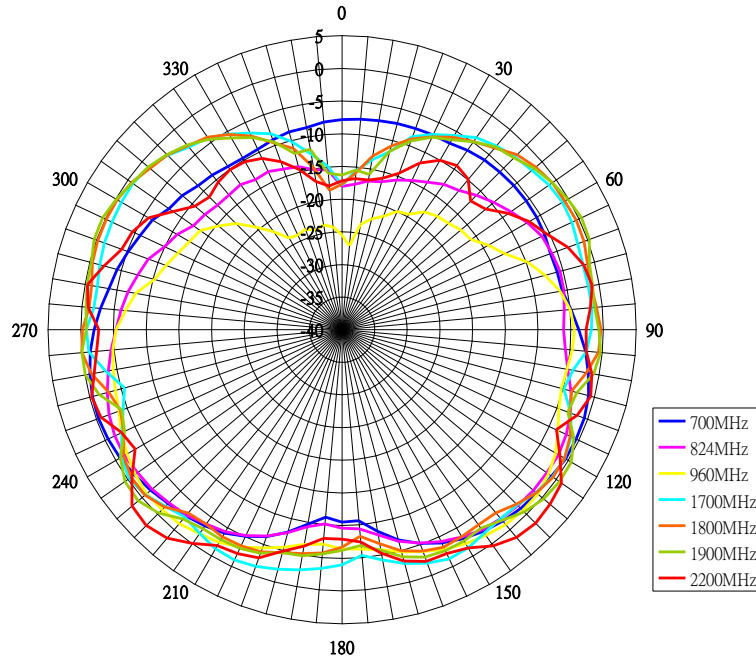


4.1.2 Bend

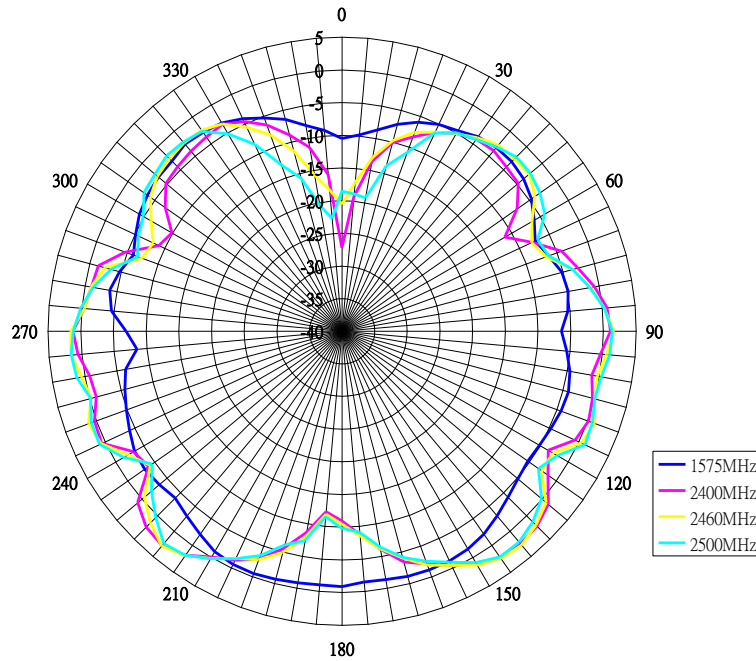


4.2 XZ –plane

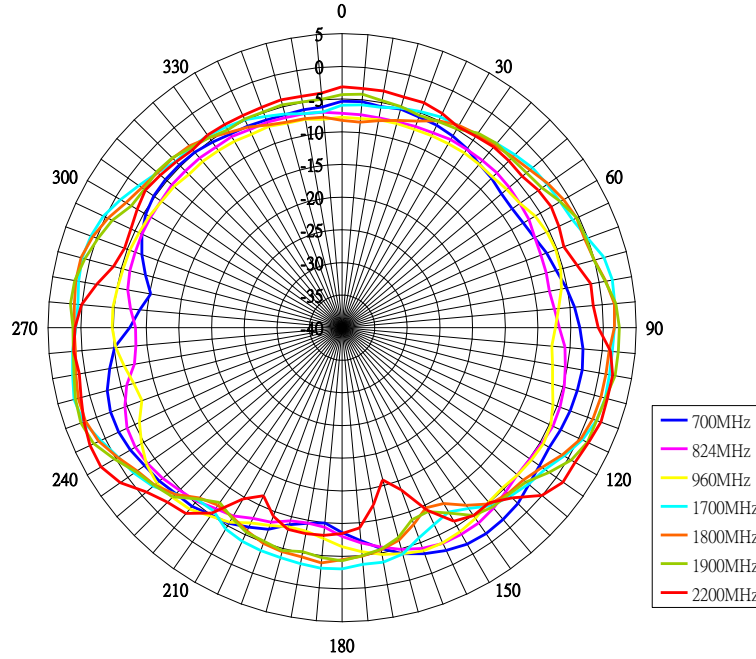
4.2.1 Straight (Cellular)



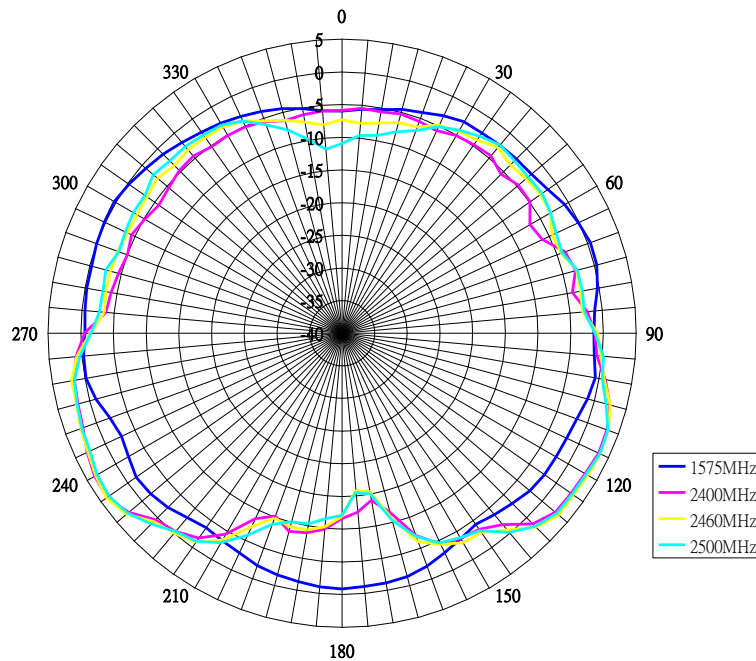
4.2.2 Straight (GPS & WiFi)



4.2.3 Bend (Cellular)

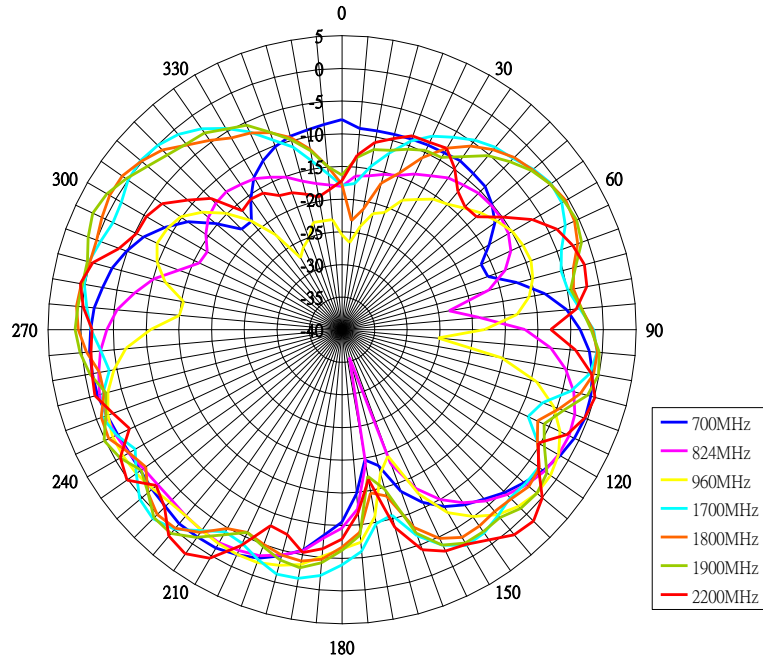


4.2.4 Bend (GPS & WiFi)

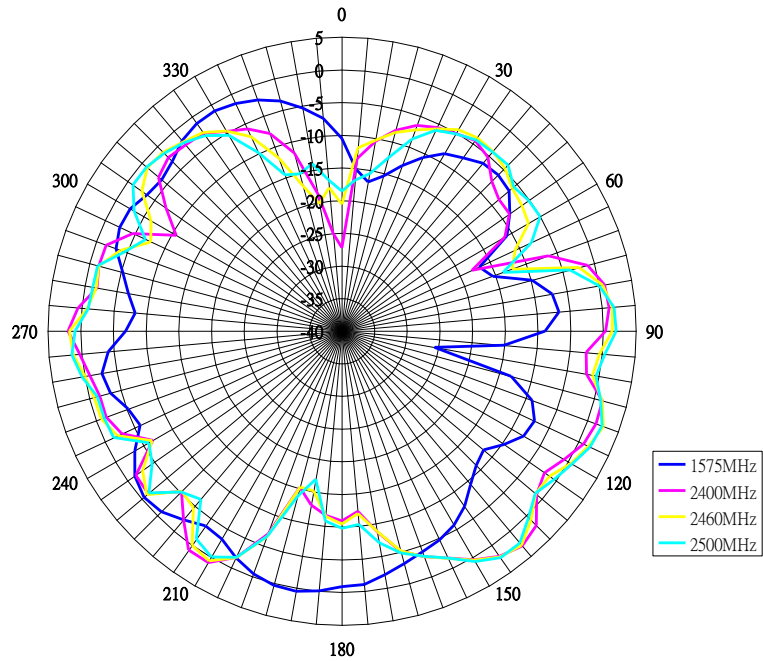


4.3 YZ –plane

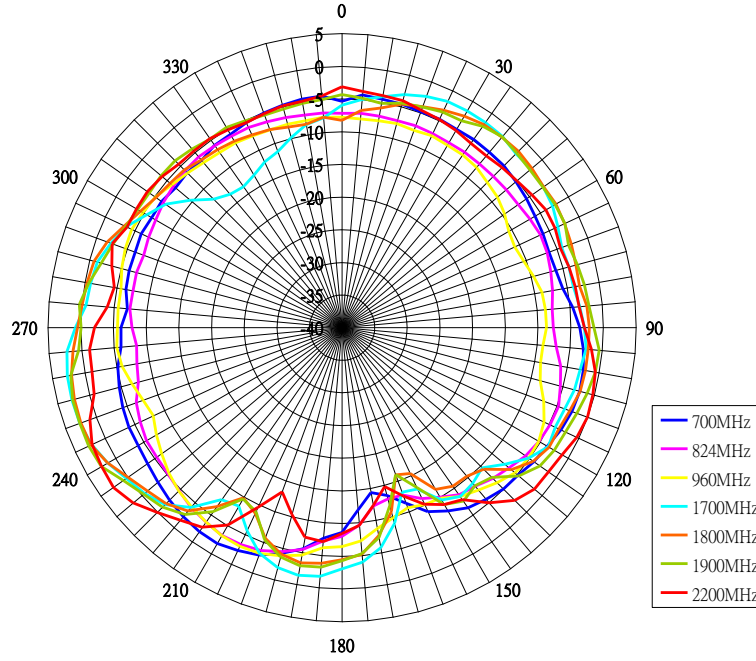
4.3.1 Straight (Cellular)



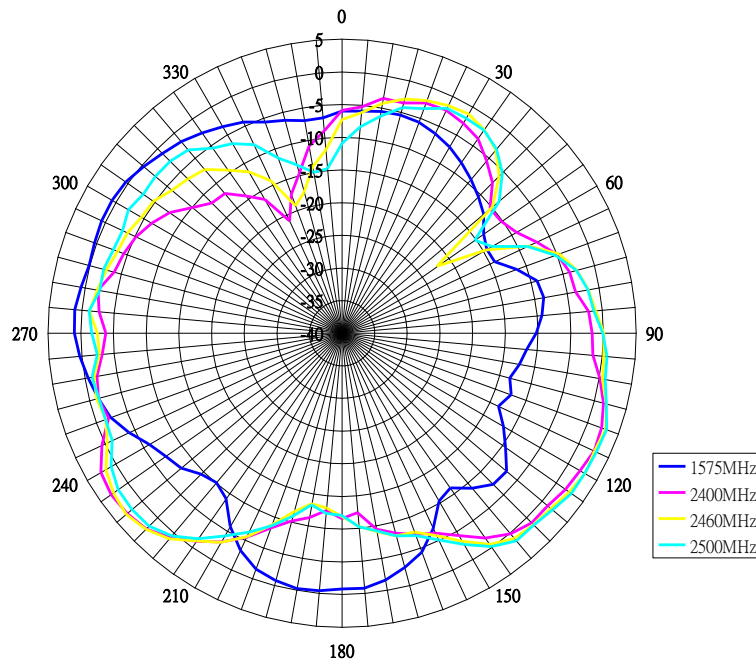
4.3.2 Straight (GPS & WiFi)



4.3.3 Bend (Cellular)

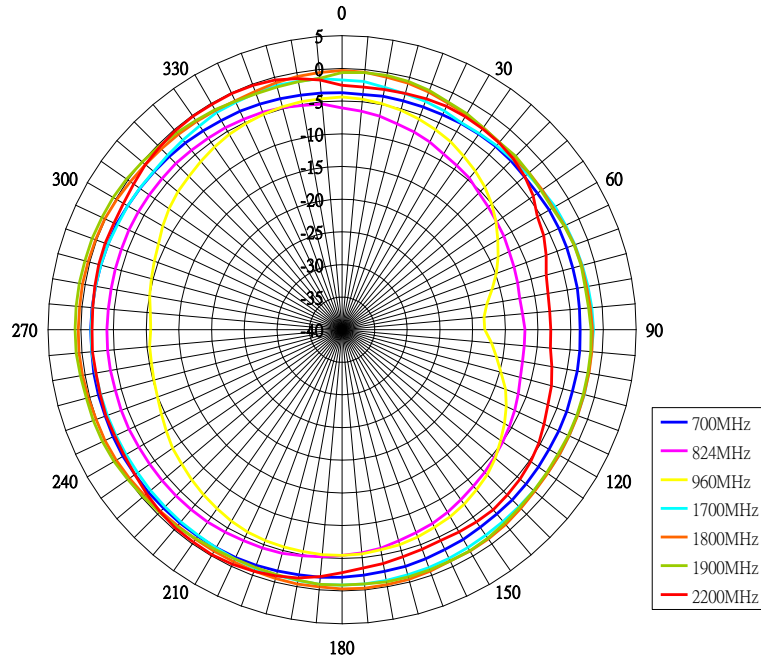


4.3.4 Bend (GPS & WiFi)

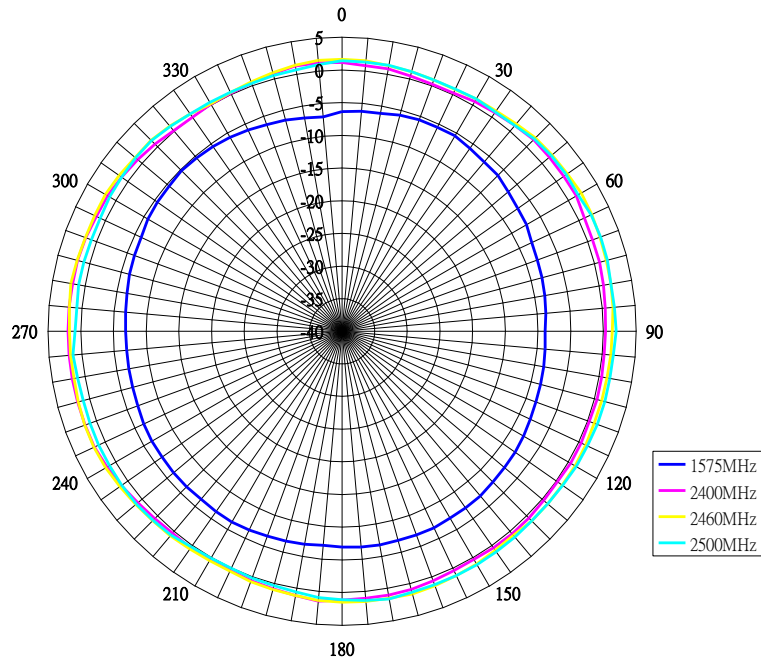


4.4 XY -plane

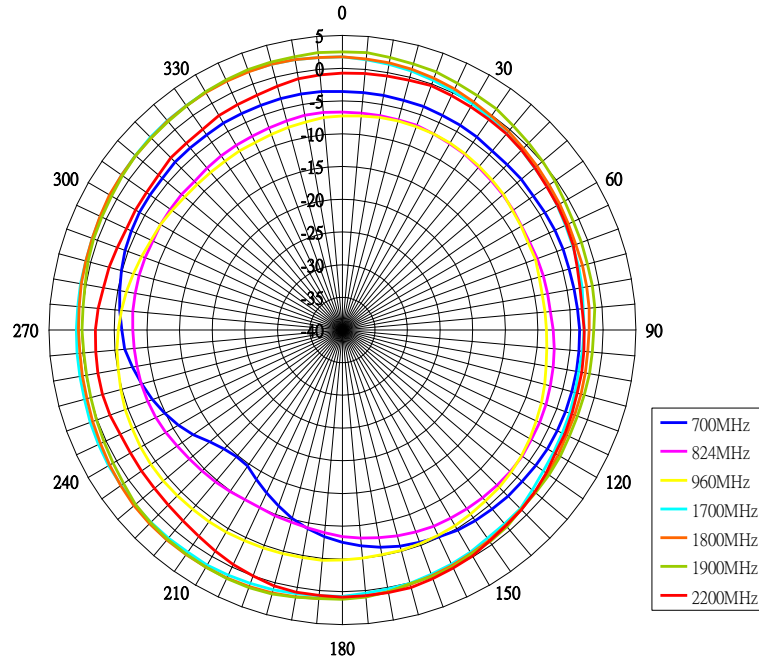
4.4.1 Straight (Cellular)



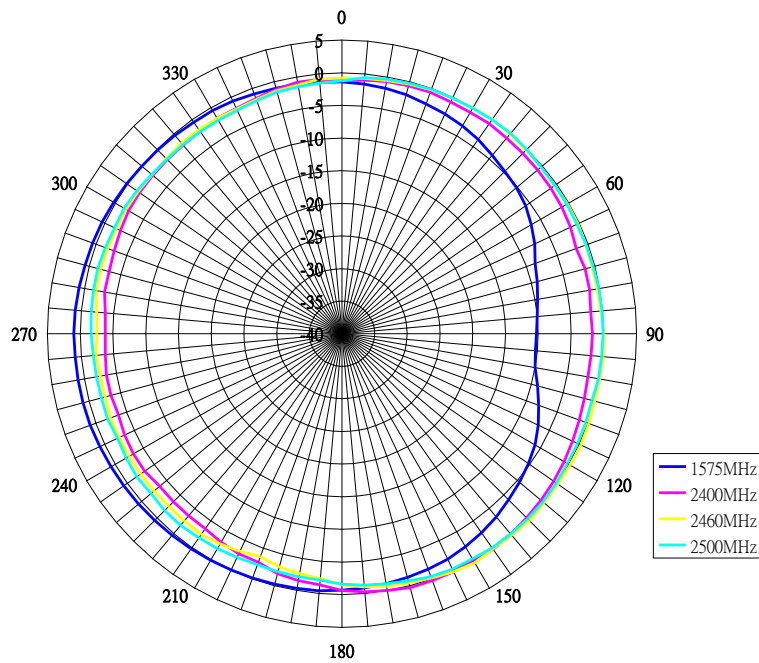
4.4.2 Straight (GPS & WiFi)



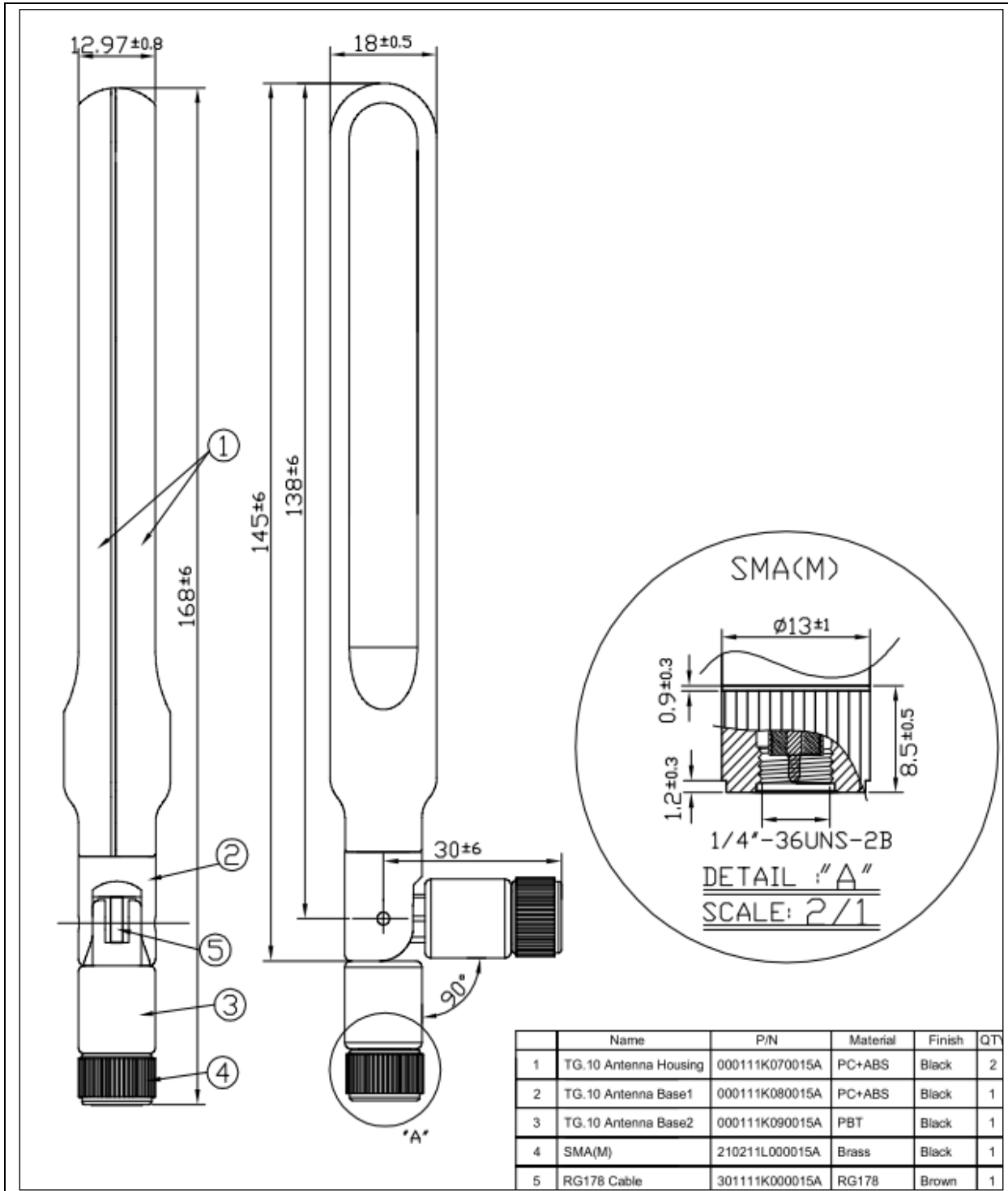
4.4.3 Bend (Cellular)



4.4.4 Bend (GPS & WiFi)



5. Drawing



Unit : mm

6. Packaging

