

## 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

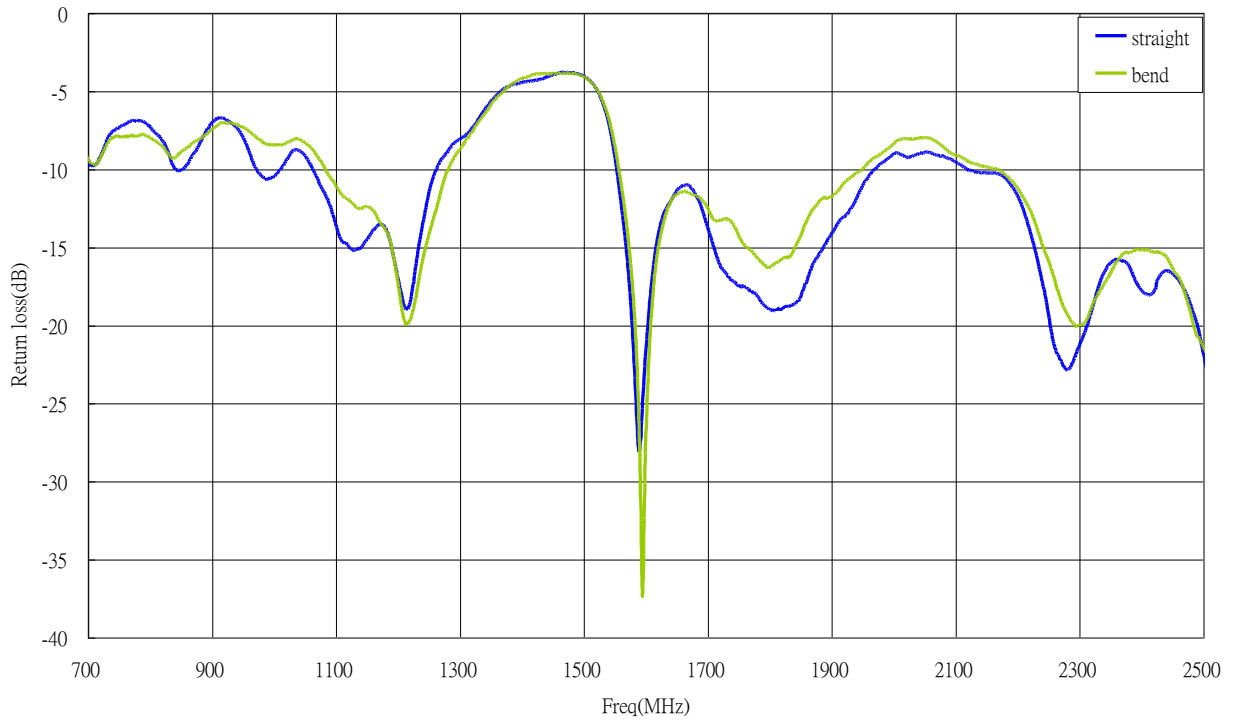
The TG.10 Triton dipole Antenna – is primarily designed for use with CDMA modules with assisted GPS. It does not require a ground-plane to connect to. It has a quality robust PUS housing for use with wireless terminals. The antenna has a SMA(M) connector. It can be used straight or hinged 90 degrees.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

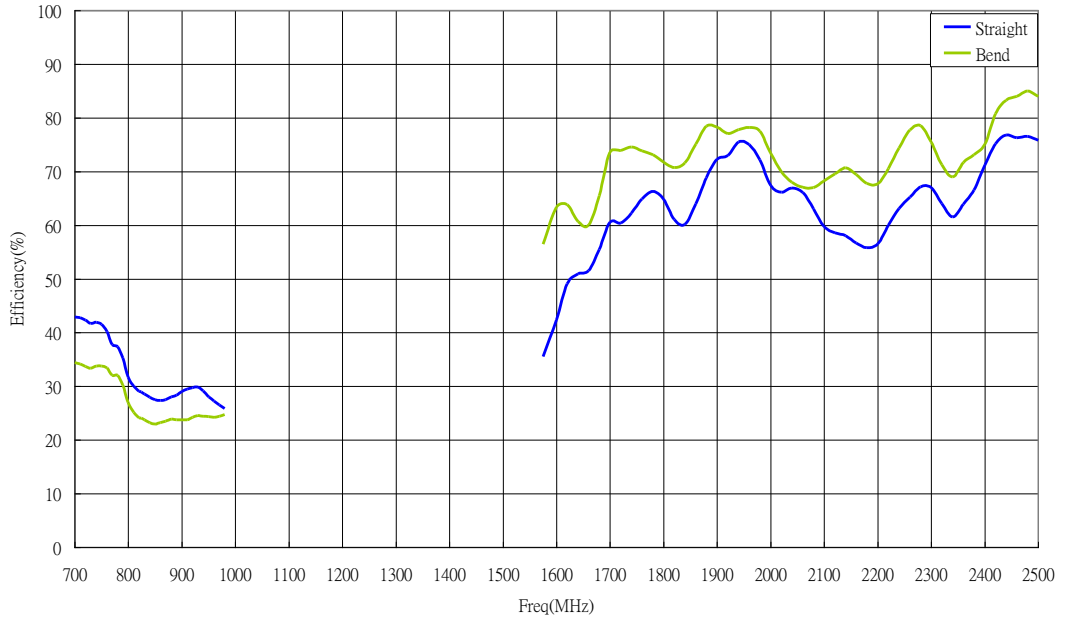
CELLULAR							
Frequency (MHz)	700~800	824~960	1575.42	1710 ~ 1880	1850 ~ 1990	1710 ~ 2170	2400~2500
Peak Gain (dBi)							
Straight	-0.5	-0.5	0.5	1.0	2.0	1.5	3.0
Bend	-1.5	-3.0	1.5	2.5	2.5	2.5	4.0
Efficiency							
Straight	38%	30%	35%	60%	65%	55%	75%
Bend	35%	25%	55%	70%	75%	70%	85%
Impedance	50Ω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

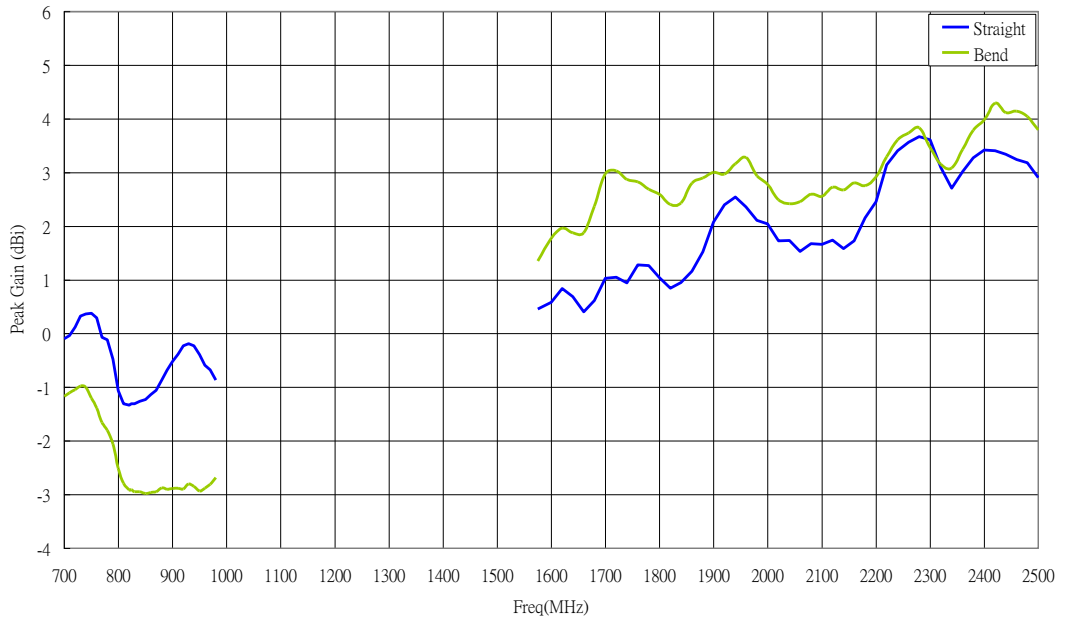
## 3.1 Return loss



### 3.2 Antenna Efficiency



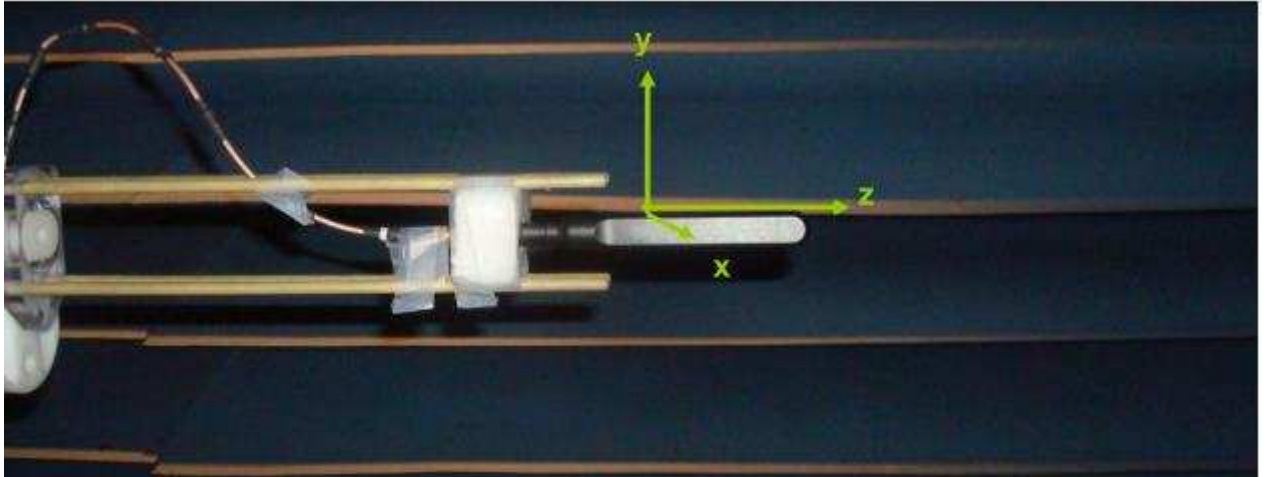
### 3.3 Peak Gain



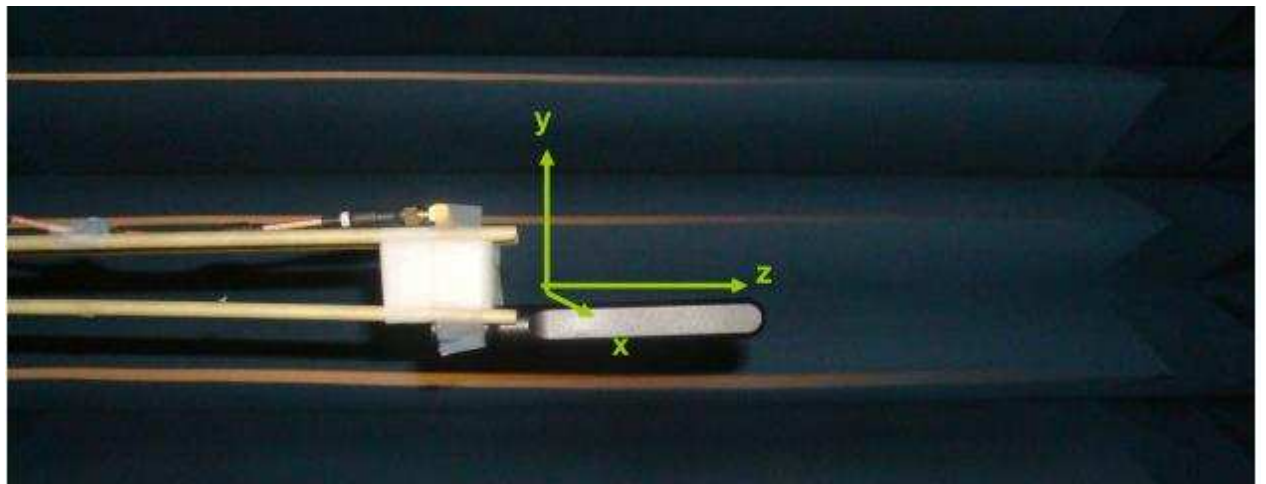
## 4. Antenna Radiation Pattern

### 4.1 Antenna Stand Alone

#### 4.1.1 Straight

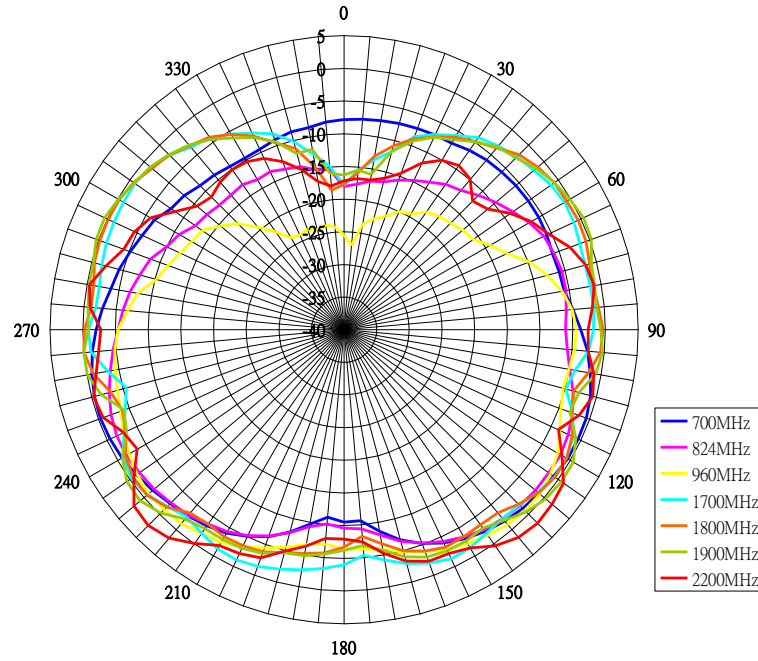


#### 4.1.2 Bend

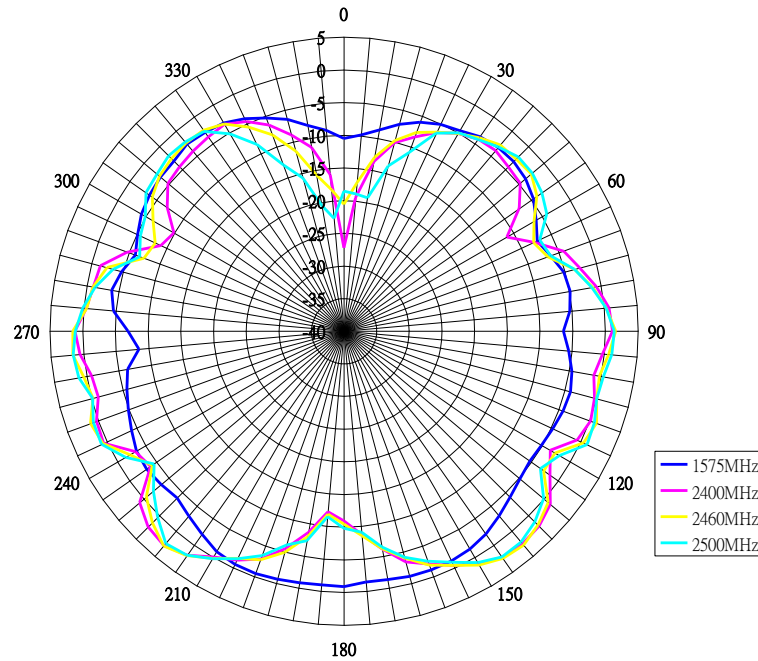


## 4.2 XZ –plane

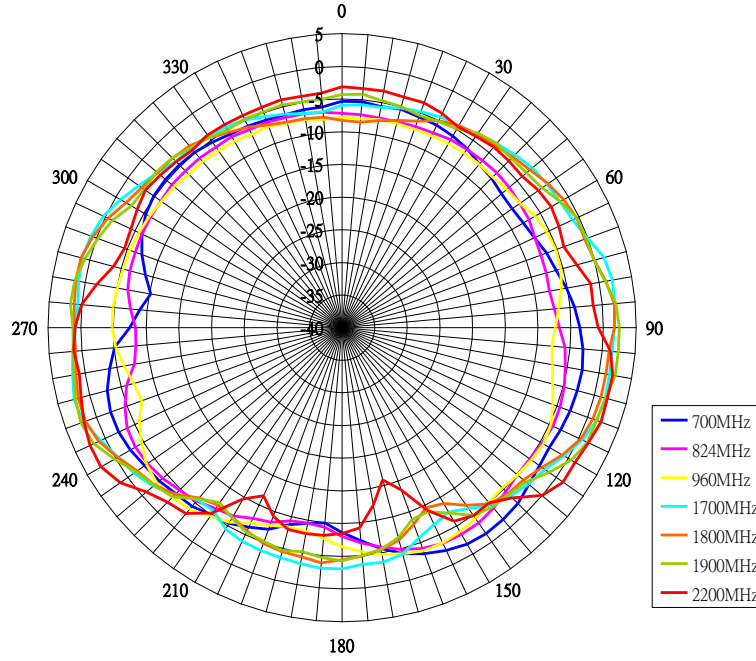
### 4.2.1 Straight (Cellular)



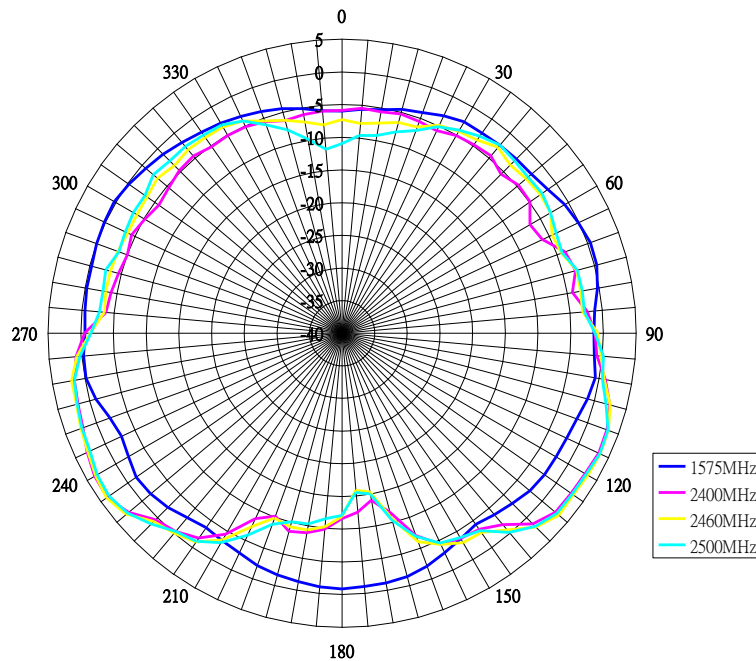
### 4.2.2 Straight (GPS & WiFi)



### 4.2.3 Bend (Cellular)

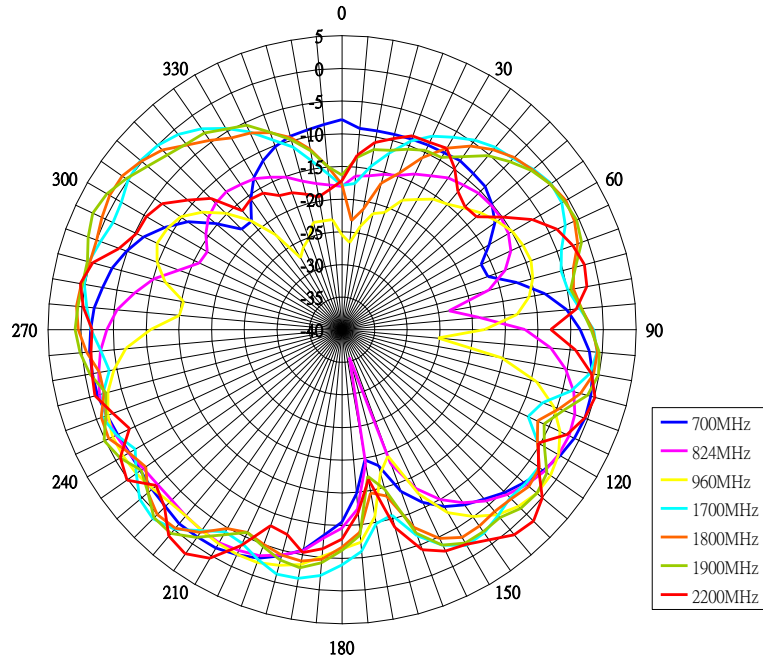


### 4.2.4 Bend (GPS & WiFi)

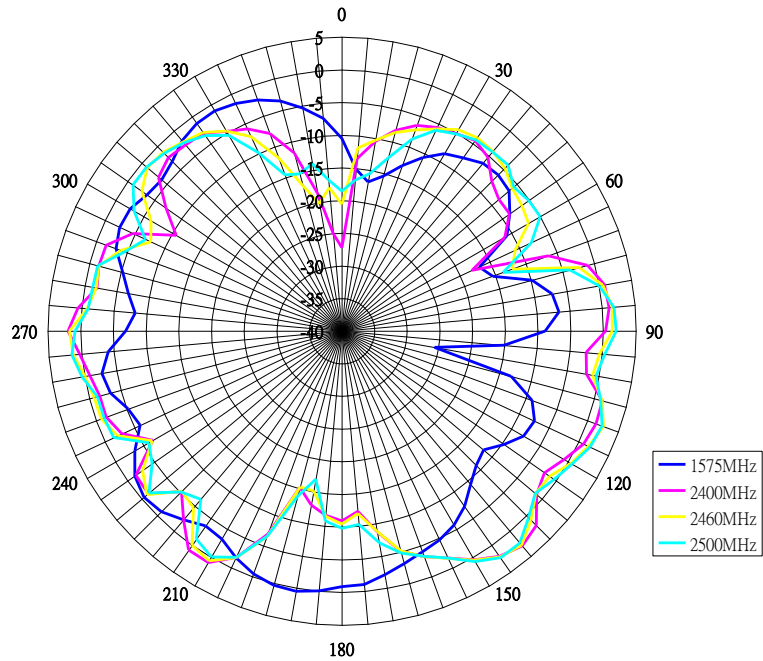


## 4.3 YZ -plane

### 4.3.1 Straight (Cellular)

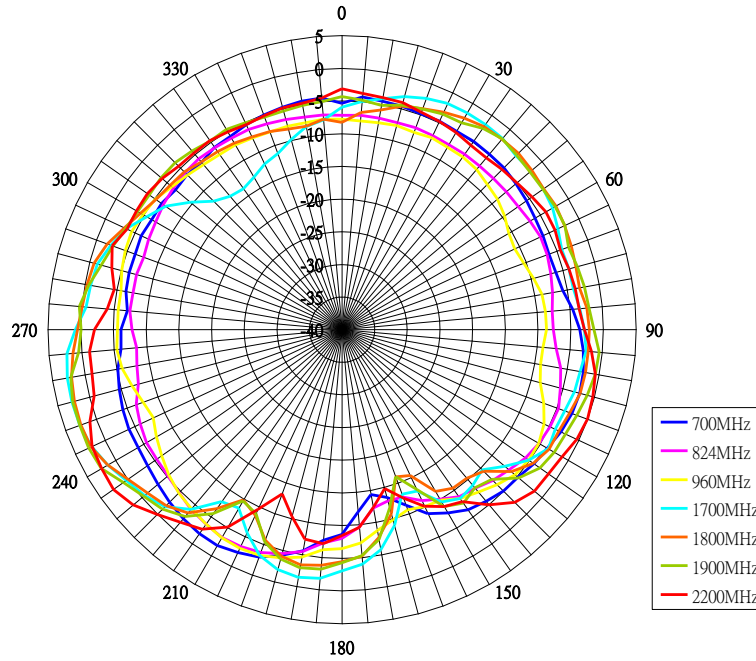


### 4.3.2 Straight (GPS & WiFi)

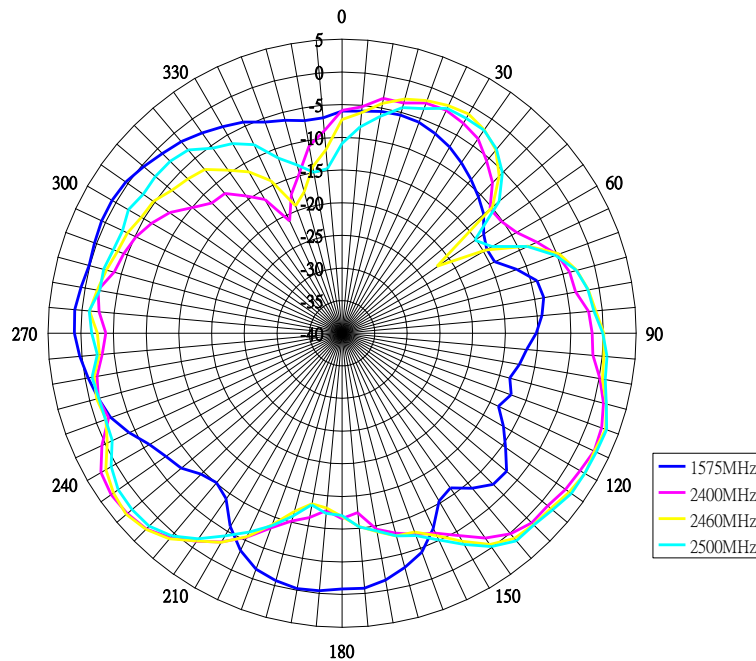




### 4.3.3 Bend (Cellular)

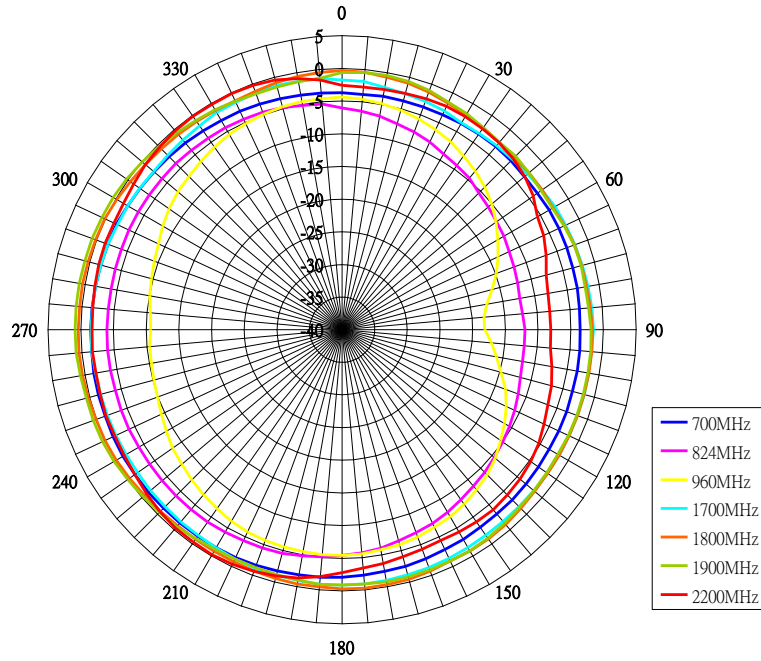


### 4.3.4 Bend (GPS & WiFi)

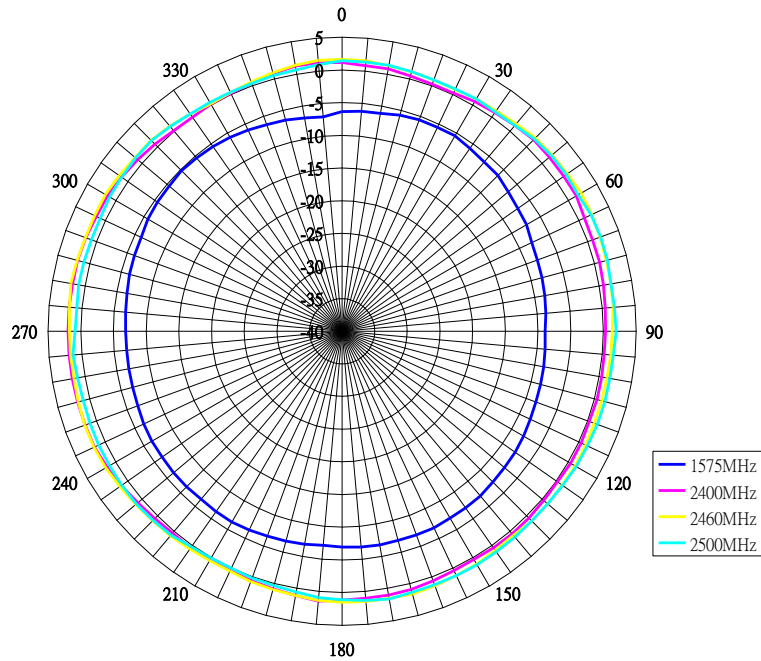


## 4.4 XY -plane

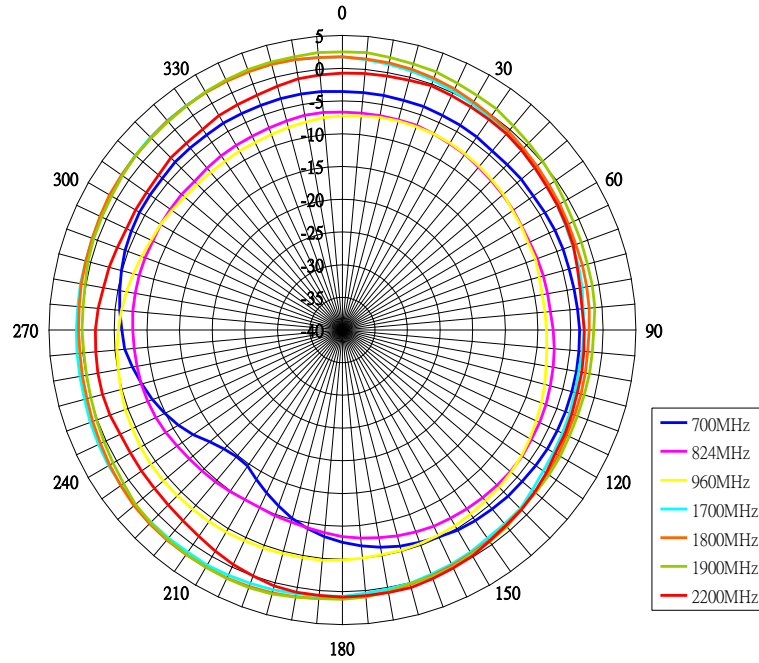
### 4.4.1 Straight (Cellular)



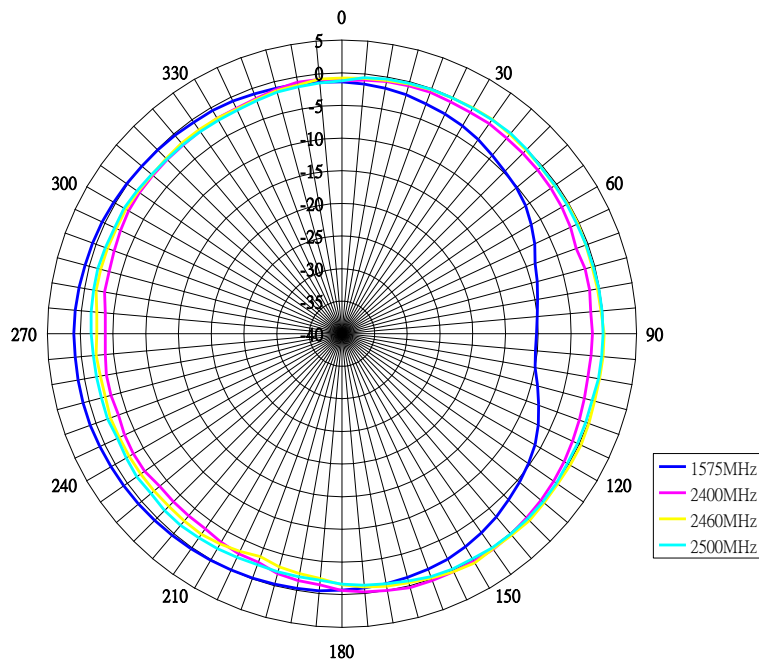
### 4.4.2 Straight (GPS & WiFi)



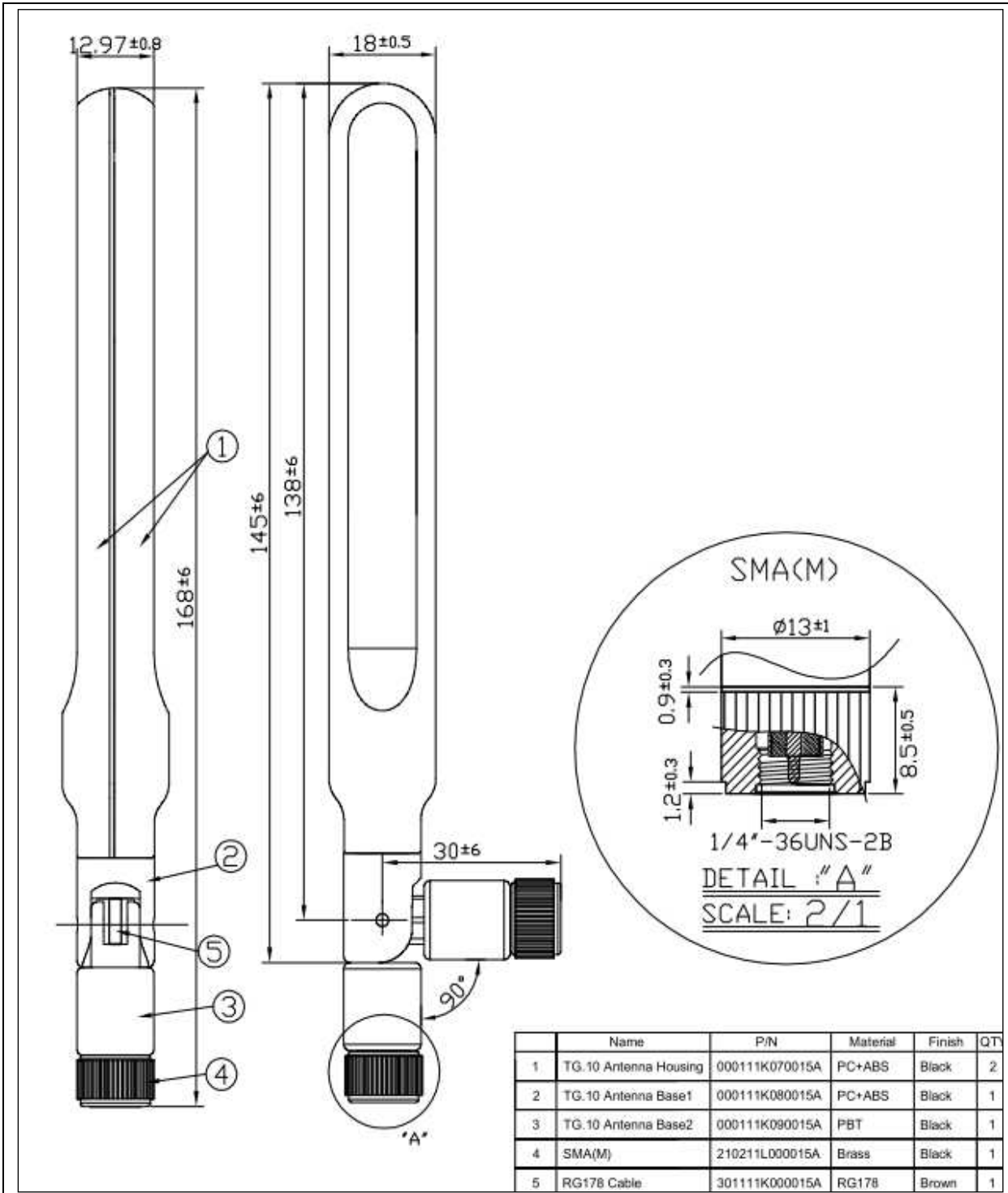
### 4.4.3 Bend (Cellular)



### 4.4.4 Bend (GPS & WiFi)



## 5. Drawing



Unit : mm

## 6. Packaging

