

## GPS & AM / FM Antenna

**Product Number:** ATGAF



### ( I ) Product Overview

#### ( i ) GPS Dielectric Antenna

Center Frequency ( MHz ) :  $1575.42 \pm 3$

VSWR : 1.5:1

Bandwidth ( MHz ) :  $\pm 5$

Impedance (  $\Omega$  ) : 50

Peak Gain  $> 3\text{dBi}$  Based on  $7\text{cm} \times 7\text{cm}$  ground plane

Gain Coverage  $> -4\text{dBi}$  at  $-90^\circ < 0 < +90^\circ$  (over 75% Volume)

Polarization : RHCP

#### ( ii ) GPS LNA/Filter

LNA Gain(Without Cable) :  $28\text{dBi}$  Typical

Noise Figure ( dB ) : 1.5

Filter Out Band Attenuation ( $f_0=1575.42$  MHz)

$7\text{dB}$  Min  $f_0 \pm 20\text{MHz}$  ;

$20\text{dB}$  Min  $f_0 \pm 50\text{MHz}$  ;

$30\text{dB}$  Min  $f_0 \pm 100\text{MHz}$

VSWR  $< 2.0$

DC Voltage ( V ) : 2.7/3.0/3.3/5.0/3.0 to 5.0 etc.

DC Current ( mA ) : 11 Max

### ( iii ) AM-FM Antenna

Frequency: 76-110MHz (FM), 525-1,700MHz (AM)

Gain: +20dB (FM), +5dB (AM)

Impedance: 75 ohm

Cable: 3C-2V

Voltage: 10-14V

### ( iv ) Mechanical

Weight ( gram ) < 240

Size ( mm ) : 84×53.8×62

GPS Cable ( m ) : RG174 2,5etc.

AM-FM : 8"

GPS Connector : SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX etc.

Mounting : Screw(Hole/Roof)

Housing : Black

### ( v ) Environmental

Working Temp : -40°C ~+85°C

Storage Temp : -45°C ~+100°C

Vibration : Sine sweep 1g(0-p) 10~50~10Hz each axis

Humidity : Humidity 95%~100%RH

Weatherproof : IP67