

# GPS Navigation Antenna Specification

(Model: GAACY-C)



## (i) Dielectric Antenna

Center Frequency	1575.42MHz $\pm$ 3 MHz
V.S.W.R	1.5:1
Band Width	$\pm$ 5 MHz
Impedence	50 ohm
Peak Gain	>3dBic Based on 7 $\times$ 7cm ground plane
Gain Coverage	>-4dBic at -90 $^{\circ}$ <0<+90 $^{\circ}$ (over 75% Volume)
Polarization	RHCP

## (ii) LNA/Filter

LNA Gain(Without cable)	28 dB/45 dB/55 dB /other Typical
Noise Figure	1.5dB
Filter Out Band Attenuation (f <sub>0</sub> =1575.42 MHz)	
	7dB Min f <sub>0</sub> $\pm$ 20MHZ ;
	20dB Min f <sub>0</sub> $\pm$ 50MHZ
	30dB Min f <sub>0</sub> $\pm$ 100MHZ
V.S.W.R	<2.0
DC Voltage	2.7V/3.0V/3.3V/5.0V/ 3.0V to 5.0V /other
DC Current	11mA/15mA/22mA Max

### **(iii) Mechanical**

Weight	<140gram
Size	Ø96×126mm;
Cable	RG58 5 to 100 meters
Connector	SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX or other
Mounting	M24×1.5
Housing	White

### **(iv) 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	Humidity95%~100%RH
Weatherproof	100%Waterproof