

GPS Active Antenna Specification

(Model: GAACZ-N)



(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)	13dB/26dB/28dB/other	Typical
Noise Figure	1.5dB	
Filter out Band Attenuation (f ₀ =1575.42 MHz)	7dB Min	f ₀ +/-20MHZ ;
	20dB Min	f ₀ +/-50MHZ;
	30dB Min	f ₀ +/-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	5mA / 11mA/15mA	Max

(iii) Mechanical

Weight	<80gram
Size	27×27X9mm
Cable	RG174 2meter, 5meter long or other
Connector	SMA/SMB/SMC/BNC/FME/TNC/MCX /MMCX or other

(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