

GPS+GSM Antenna Specification

(Model: GAAGG-B)



(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) GSM Antenna

Center Frequency	824MHz~894MHz(AMPS)	
	880 MHz~960MHz(GSM)	
	1710MHz~1990MHz	
V.S.W.R	2.0:1	
Impedence	50 ohm	
Typical Gain	2dBi+/-1dB@850MHZ;	2dBi+/-1dB@900MHZ
	1dBi+/-1dB@1800MHZ;	1dBi+/-1dB@1800MHZ

(iii) LNA/Filter

LNA Gain(Without cable)	13dB/26dB/28dB/other Typical
Noise Figure	1.5dB
Filter Out Band Attenuation (f0=1575.42 MHZ)	
	7dB Min f0+/-20MHZ ;
	20dB Min f0+/-50MHZ;
	30dB Min f0+/-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

(iv) Mechanical

Weight	<130gram
Size	80 mm(D)×13mm(H)
Cable	GPS-----RG174 2meter, 5meter long or other GPS-----RG174 2meter, 5meter long or other
Connector	GPS-----SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX/other GSM-----SMA/SMB/SMC/BNC/FME/TNC/MCX/MMCX/other
Mounting	Sticking /Magnetic /Screw Mounting
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	Humidity95%~100%RH
Weatherproof	100%Waterproof