



Specification

## SPECIFICATION

Part No.	:	<b>AA-107</b>
Product Name	:	Stingray GPS Antenna AA-107
Features	:	High LNA Gain up to 32 dB Miniaturized to 55.15x12mm Low Noise 1.5 dB max Low Current Consumption $19 \pm 2\text{mA}$ ( at 3-5V dc)
Photos	:	



**3D view**



**top view**  
(this side faces the sky)



**underside view**  
(this side faces the passenger)



**Specification**

This is a high performance GPS antenna to simplify AVL, Fleet management or navigation antenna systems. It's high quality low profile covert housing can be attached onto the glass or even out of sight under the dashboard. This high gain GPS antenna is ideal for those applications that require durability, small size and covert installation, with reliable and accurate GPS reception.

**Features**

**GPS**

- High LNA Gain up to 32 dB
- Miniaturized to 55.15x12mm
- Low Noise 1.5 dB max
- Low Current Consumption  $19 \pm 2\text{mA}$  ( at 3~5V dc)

**Other**

- Quality textured covert design. Low profile.
- UV resistant ABS housing
- Comes with high grade 3M double sided tape for quick and easy mounting
- Optional cables and connectors

<b>Performance Specifications</b>	
<b>Items</b>	<b>GPS Antenna</b>
Features	High performance GPS ceramic patch antenna with cutting edge low noise amplifier
Frequency	1575.42 MHz $\pm$ 2MHz
LNA Gain	30 dB $\pm$ 2 dB typ.
Antenna Gain	Gain at Zenith : 2.0 dBi min
	Gain at 10 <sup>o</sup> elevation : -4.0 dBi min
Axial Ratio :	2.0 dB max
Noise Figure	1.5 dB max.
Polarization	RHCP
Out band Attenuation (LNA)	30dB min fo $\pm$ 50MHz (fo=1575.42MHz)
Bandwidth	10 MHz min
VSWR	$\leq$ 2.0 dB
Impedance	50 $\Omega$
Power / Consumption	$19 \pm 2\text{mA}$ ( at 3~5V dc)
Cable / Connector	Standard 1,2,3,4 or 5m RG-174 cables Connectors Fully Customisable
Operating Temperature	-35 $^{\circ}$ C ~ +85 $^{\circ}$ C
Storage Temperature	-40 $^{\circ}$ C ~ +95 $^{\circ}$ C
Size	55.15mm * 12mm
Housing	UV resistant ABS

**\*note: specifications may be subject to change**