



# GPS Antenna Module

## Model: SA-76C



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### Introduction:

SA-76C is for embedded GPS antenna that provides continuous L1 band with high gain and low power consumption to a wide selection of GPS receivers in today's market.

SA-76C is the integration of a high performance GPS patch antenna , filter and a state-of-the-art low noise amplifier mounted on a 29mm x 38mm x 10.5mm in size. The unit provides excellent antenna signal amplification to any GPS receiver with a +2.5~5.0Vdc antenna power at the center pin.

### Features

- Low Noise Figure
- Excellent Temperature Stability
- Very Low Current Consumption
- Small & Compact

### Applications

- Embedded GPS antenna for AVL, Fleet Management systems, Car Navigation, Marine Navigation, Hand-held GPS

### Specification

Physical Condition	
Dimension	29mm x 38mm x 10.5mm
Weight	20grams (without cable & connector)

Shielding	LNA circuits are shielded with metal frame to avoid interference
<b>Cable &amp; Connector</b>	
Cable Length	3m to 5m
Connector Type	optional
<b>Antenna Element</b>	
Center Frequency	1575.42 MHz +/-1.023 MHz
Polarization	R.H.C.P. (Right Handed Circular Polarization).
Absolute Gain @ Zenith	+5 dBi typically
Gain @ 10° Elevation:	-1 dBi typically
Axial Ratio	3 dB max.
Output VSWR	1.5 max.
Output Impedance	50 Ω
<b>Low Noise Amplifier:</b>	
Center Frequency	1575.42 MHz +/- 1.023 MHz.
Power Gain	30 dB typically
Bandwidth	2 MHz min.
Noise Figure	1.3max.
Supply Voltages	+2.5 ~ 5.5V DC
Current Consumption	12mA +/- 1mA @ +3.0 ~ 5.0V DC
VSWR	2.0 max
Output Impedance	50 Ω
<b>Overall Performance: (antenna element, LNA &amp; coax cable)</b>	
Center Frequency	1575.42 MHz.
Gain	26 dB typically
Noise Figure	2.0 max.
Axial Ratio	3 dB max.
VSWR	2.0max.
Output Impedance:	50 Ω

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Environmental Condition:	
Operating Temperature	-30°C~ +85°C
Storage Temperature	-40°C~ +90°C
Relative Humidity	95% non-condensing

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