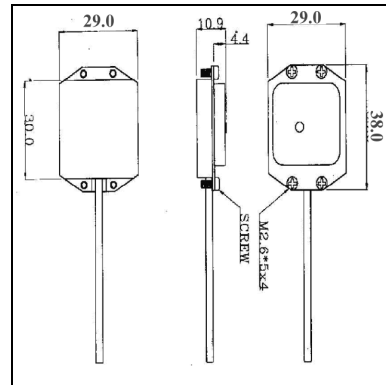


OEM GPS Antenna Module

Model: SA-76C

High-performance antenna module for embedded applications



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Introduction:

The SA-76C is the integration of a high performance GPS patch antenna and a state-of-the-art low noise amplifier over a 38mm x 29mm metal frame with 4 screws at its corners. With its compact construction & high-end LNA, the SA-76C is ideal for various kinds of embedded applications and provides excellent signal amplification when connected to a GPS receiver with 5V DC antenna power at the center pin.

Features:

- High Performance
- Low Noise Figure
- Very Low Current Consumption
- Variety of Connectors

Applications:

- Embedded Applications for Car Navigation
- GPS Antenna for AVL, Fleet Management system, Marine GPS, Avionics
- Special Purpose Antenna

Specification:

Physical Condition	
Dimension	38mm (L) x 29mm (W) x 10.5mm (H)

Weight	20 grams (w/o cable & connector)
Shielding:	LNA circuits are shielded with metal frame to avoid interference
Cable & Connector	
RF:	5 meter RG174/U (standard) cable & length (optional)
Pulling strength:	6 Kg @ 5sec. molded plastic on connector end for strain relief
Connector available:	BNC,TNC,,FME (to be adapted),GT5,MCX (OSX), SMA,SMB or SMC IN straight or right-angle type.
Optional adapters:	FME to TNC/BNC/SMA/SMB/MCX
Antenna Element	
Center Frequency:	1575.42 MHz +/- 1.023 MHz
Polarization:	R.H.C.P. (Right Handed Circular Polarization)
Absolute Gain @ Zenith:	+5 dBi typical.
Gain @ 10° Elevation:	-1 dBi typical.
Axial Ratio:	3 dB max.
Output VSWR:	1.5:1 max.
Output Impedance:	50 ohm
Low Noise Amplifier	
Center Frequency:	1575.42 MHz
Power Gain:	27 dB typical.
Noise Figure:	1.5 dB min.
Band Width:	2 MHz min.
Supply Voltages:	+2.5~5.5V DC.
Current Consumption:	28mA +/-3mA
VSWR:	2.0 max.
Output Impedance:	50 ohm
Overall Performance (antenna element, LNA & cable)	
Center Frequency:	1575.42 MHz.
Gain:	30 dB min.
Band width:	2 MHz min.
Noise Figure:	2.0 max.
Axial Ratio:	3 dB max.
VSWR:	2.0 max.
Output Impedance:	50 ohm
Environmental Condition	
Operating Temperature:	-30° C~ +85° C
Storage Temperature:	-40° C~ +90° C.
Relative Humidity:	95% non-condensing.

(*PS: The specification is subject to change without prior notice)