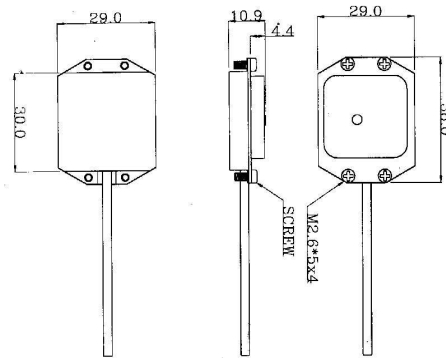
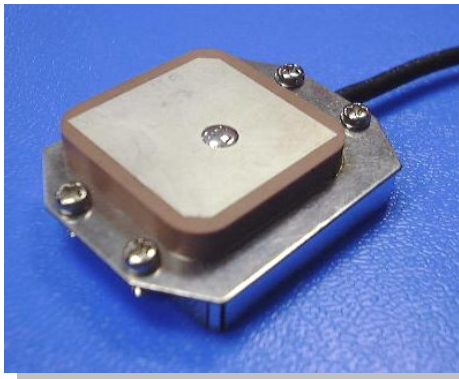


GPS Antenna Module

Model: SA-60C

High-performance antenna module for embedded applications



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Introduction:

The SA-60C 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-60C 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 GPS Antenna for AVL, Fleet Management Systems, Car Navigation, Marine Navigation, Hand-held GPS

Specification:

Physical Condition	
Dimension	38mm(L) x 29mm(W) x 10.5mm(D)
Weight	20grams (w/o cable & connector)

Shielding	LNA circuits are shielded with metal frame to avoid interference
Cable & Connector	
RF Cable:	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 MCX/BNC/SMA/SMB/TNC
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 max.
Output Impedance:	50 ohm
Low Noise Amplifier	
Center Frequency:	1575.42 MHz +/- 1.023 MHz.
Power Gain	30 dB typical.
Bandwidth	2 MHz min.
Noise Figure	2.5 max.
Supply Voltages	+4.5~5.5V DC.
Current Consumption	28mA +/-3mA @ 5VDC.
VSWR	2.0 max.
Output Impedance	50 ohm
Overall Performance (antenna element, LNA & cable)	
Center Frequency:	1575.42 MHz.
Gain:	27dB min.
Noise Figure:	2.5 max.
Band width:	2 MHz min.
Axial Ratio:	3 dB max.
VSWR	2.0 max.
Output Impedance	50 ohm
Environmental conditions	
Operating Temperature:	-40°C~+85°C
Storage Temperature:	-50°C~+90°C
Relative Humidity:	95% non-condensing

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

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