

OEM GPS Antenna Module
MODEL: G0CC

High-performance antenna module for embedded applications



The G0CC 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

SPECIFICATIONS

PHYSICAL CONSTRUCTION:

Dimensions: 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: 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 +/-1.023MHz

Polarization: R.H.C.P. (Right Handed Circular Polarization).

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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 +/- 1.023 MHz.

Power Gain: 27 dB typical.

Bandwidth: 2 MHz min.

Noise Figure: 1.5 min.

Supply Voltages: +2.5~5.0V 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.

Noise Figure: 2.0 max.

Band width: 2 MHz min.

Axial Ratio: 3 dB max.

VSWR: 2.0 max.

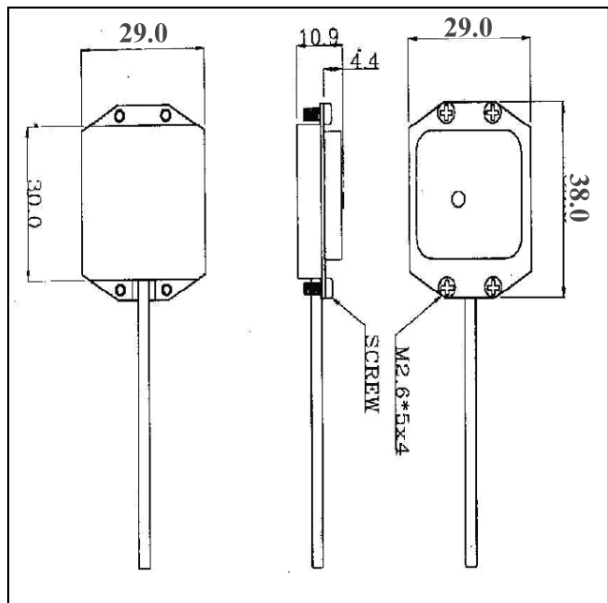
Output Impedance: 50 ohm

ENVIRONMENTAL CONDITION:

Operating Temperature: -30° C~ +85° C.

Storage Temperature: -40° C~ +90° C.

Relative Humidity: 95% non-condensing.



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