

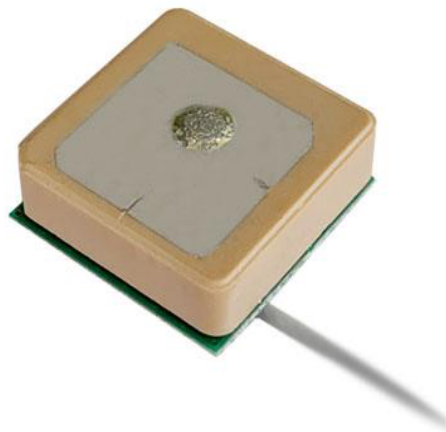
GPS Active Internal Ceramic Patch Antenna 12x12x7mm

Part No:AC-GPS-N127

1. Introduction

Light weight, low profile, easy to assemble and hide the high gain LNA is made of low noise microwave components to ensure the sensibility of the system.

This GPS antenna is ideal for GPS enabled ruggedized PDAs, laptops and portable GPS Handhelds. It features a compact ceramic patch element, ESD circuit protection, a low noise amplifier and a SAW filter, enabling the antenna to provide great out-of-band signal rejection performance, consistent and clear signal while minimizing loss-of-lock in an extremely small form factor.



2. Specification

Electrical

| | | |
|---------|-------------------|-----------------------------------|
| Antenna | Frequency Range | 1575.42MHz±3MHz |
| | Gain | -3.0dB typ @13mmx13mm groundplane |
| | Polarization Type | RHCP |
| | V.S.W.R | <2.0 |
| | Impedance | 50Ω |
| | Dimensions | 12x12x7mm |
| LNA | Frequency Range | 1575.42MHz±3MHz |
| | LNA Gain | 15±3dB(without cable @25°C±10°C) |
| | Noise Figure | 1.5MAX |
| | DC Voltage | 3.0±0.5V |
| | DC current | 5-15mA |
| | V.S.W.R | <2.0 |

Mechanical

| | | |
|---------------|-------------------------|-------------|
| Mechanical | Cable | 1.13 |
| | Length | 100mm |
| | Connector | U.FL |
| Environmental | Antenna Radome Material | Ceramics |
| | Operating Temperature | -40°C~+85°C |
| | Relative Humidity | Up to 75% |
| | Weight | 8g |
| | RoHS Compliant | YES |