Smallest GPS Active Antenna Module / GA-105D

RoHS Compliant





GPS Active Antenna Module

Overview

Built-in SAW filter and high gain LNA, GA-105D is a tiny, low power, variable bias voltage, high performance GPS active antenna module. It measures just 13(L) x 13 (W) x 6 (H) mm. Bias voltage range is 2.5V~5V. It is an ideal companion to GPS engine boards for GPS phone and navigator applications.

Applications

- GPS phone
- Navigator
- Handheld devices

Features

- Tiny
- Low power consumption
- Variable bias voltages
- High gain, low noise

Technical Specifications

| Working voltage | 2.5 ~ 5 V |
|-----------------|-----------|

Antenna Performance Data Ceramic Patch

| Size | 12.8 mm*12.8 mm*4 mm |
|---------------------|------------------------|
| Operating Frequency | 1575.42±1.023 MHz |
| Bandwidth | 6 MHz min. @S11≤-10 dB |
| Gain at Zenith | -0.05 dBic |
| Ground size | 30 mm*30 mm |
| Polarization | R.H.C.P. |
| Axial Ratio | ≦ 3.0 dB |

LNA/Filter

| Operating | 1575.42±1.023 MHz |
|--------------|---------------------|
| Frequency | |
| Gain | 25 dB Typical |
| Noise Figure | 1.5 dB Typical |
| Output VSWR | 2.0 Max |
| Voltage | 3.3 V Typical |
| Current | 3.3 V: 6 mA Typical |

Mechanical Data

| Mini-coaxial cable length | 10 cm |
|---------------------------|--------------|
| Connector | Female I-PEX |

Dimension

| CA 405D | 10.10.0.3 |
|---------|-------------------------|
| GA-105D | 13x13x6 mm ³ |



*This document is subject to change without notice.

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