



GA-210 – High Performance

GPS/GLONASS Active Antenna

Overview

Built-in SAW filter and high gain LNA, GA-210 is a high performance, variable bias voltage, GPS/GLONASS active antenna. It's an ideal companion to GPS/GLONASS GNSS receivers.

Applications

- Automatic vehicle location
- Fleet management
- Electronic-mapping application
- Security system

Features

- Compact
- Low power consumption
- Variable bias voltages
- High gain, low noise
- Variable cable length and connectors are available
- Magnetic mounting
- Water-resistance

Technical Specifications

Working Voltage	3.0 ~ 5.0V
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Antenna Performance Data

Ceramic Patch

Size	25mm*25mm*4mm
Operating Frequency	1575.42±1.023 MHz 1602±8 MHz
Bandwidth	Min. 10 MHz for GPS Min. 20MHz for GLONASS
Impedence	50 ohm
Gain at Zenith	5.0 dBic Typical

Test Ground Size	70mm*70mm
Polarization	R.H.C.P.
Axial Ratio	<= 3.0 dB

LNA/Filter

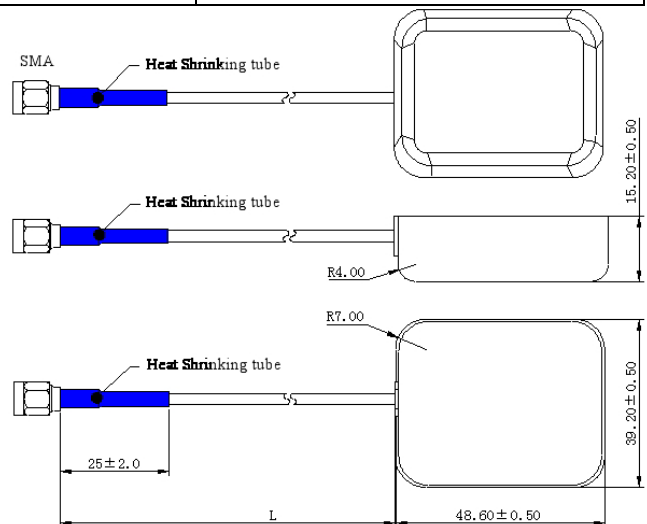
Gain	30 dB Typical, w/o cable
Noise Figure	1.5 dB Typical
Output VSWR	2.0 Max
Voltage	3.0~5.0 V Typical
Current	13.5 mA @ 5.0V Typical

Environmental Data

Operating temperature	-20 ~ 65°C
Storage temperature	-25 ~ 85°C
Vibration	10Hz to 50Hz, 1g, Sine

Mechanical Data

Dimension	39.2 (L) x 48.6 (W) x 15.2 (H) mm
Cable Type	RG174/U
Cable Length	1.5m, 3m, 5m, 10m, etc.
RF Connector	SMA, MCX, MMCX, SMB, GT5 etc



LNA S-PARAMETER

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CH1 S11 SWR 1 / REF 1
 CH2 S21 LOG 10 dB/ REF 0 dB
 CH4 S22 SWR 1 / REF 1

1: 1.2513
 1: 31.687 dB
 1: 1.2689 1 575.060 003 MHz

