RoHS Compliant



GA-211 – High Performance GPS/GLONASS Active Antenna

Overview

Built-in SAW filter and high gain LNA, GA-211 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

Antenna Performance Data

Ceramic Patch

Size	25mm*25mm*4mm
Operating Frequency	1575.42±3 MHz 1602±8 MHz
VSWR	1.5 Max.
Bandwidth	Min. 10 MHz for GPS Min. 20MHz for GLONASS
Impendence	50 ohm

Gain at Zenith	4.0 dBic Typical
Test Ground Size	70mm*70mm
Polarization	R.H.C.P.
Axial Ratio	3.0 dB Max

LNA/Filter

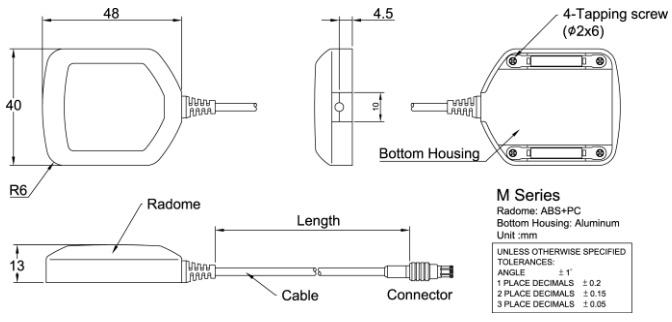
Gain	29 dB Typical, w/o cable
Noise Figure	0.9 dB Max.
Output VSWR	2.0 Max
Voltage	3.0~5.0 V Typical
Current	6~12 mA

Environmental Data

Operating temperature	-40 ~ 85℃
Storage temperature	-40 ~ 85℃
Vibration	10Hz to 50Hz, 1g, Sine

Mechanical Data

Dimension	40 (L) x 48 (W) x 13 (H) mm
Cable Type	RG174
Cable Length	1.5m, 3m (default), 5m, 10m, etc.
RF Connector	SMA (default), MCX, MMCX, SMB, GT5 etc

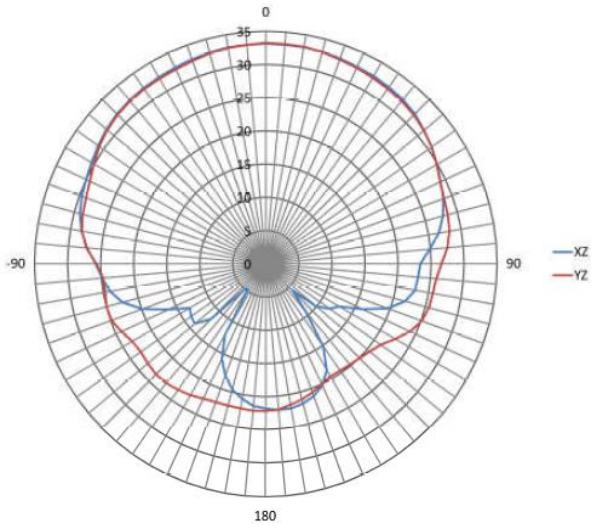


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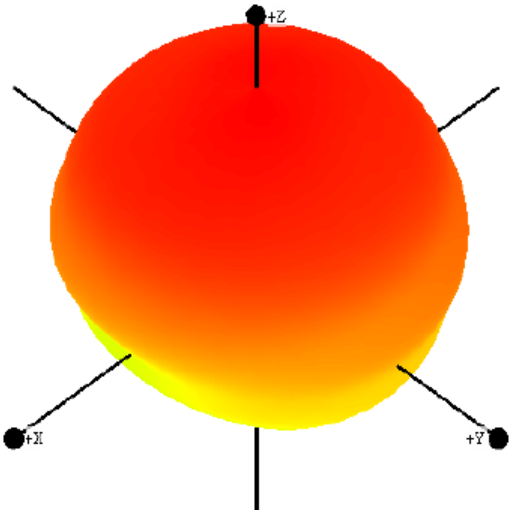
RHCP Radiation Pattern (3VDC, 17cm RG174 cable, 7*7cm ground plane)

Frequency=1575MHz, Gain=33.21dBic;

2D Pattern

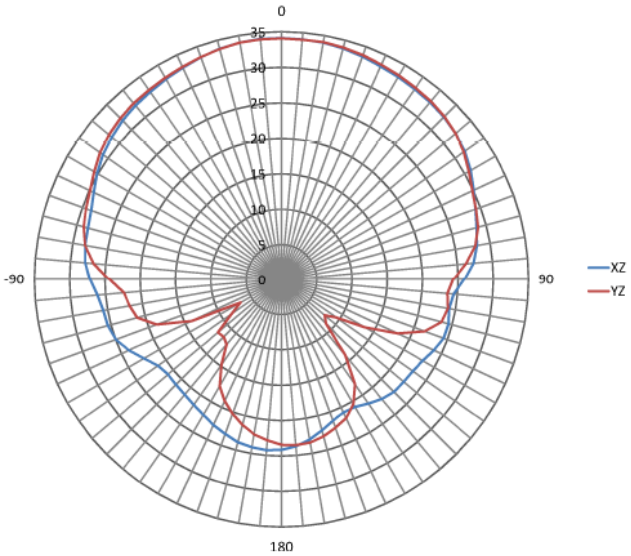


3D Pattern

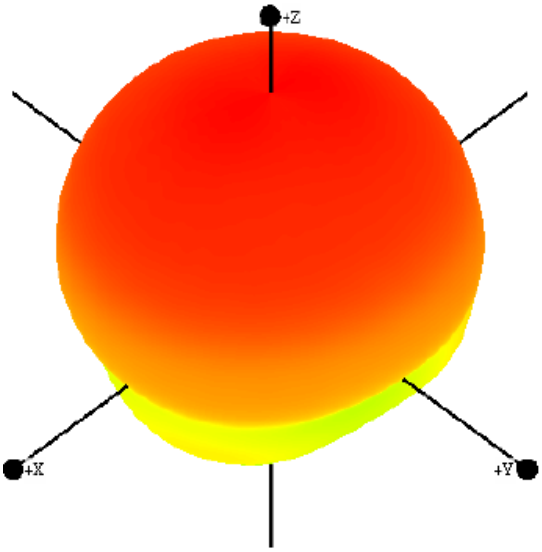


Frequency=1602MHz, Gain=33.86dBic

2D Pattern



3D Pattern





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