

# GPS/GLONASS ANTENNA

## MODEL: GA-90G

Compact & Sensitive GPS/GLONASS Antenna Module with Excellent Signal Amplification for Mobile Applications



- Gain: 27 dB
- Ultra-high sensitivity
- Voltage: 2.5~5V DC
- 25mm x 55mm
- ABS PA777D Impact-resistant plastic

**GA-90G** is the most compact GPS/GLONASS antenna module currently available on the market, thanks to our cutting-edge technology that makes the device the tiniest possible without sacrificing performance. With comprehensive coverage almost all the way to the horizon, it performs excellently in foliage or urban canyon environment. Featuring diminutive but substantial enclosure plus unparalleled performance, **GA-90G** is compatible with almost every GPS/GLONASS receiver model available on the market and provides a perfect alternative for a vast range of GPS/GLONASS applications in the fields of AVL, vehicle navigation, aviation and military.

### Features:

- Compact Construction/ Low Profile/ Fully Waterproof
- Magnet and Screw Mount Base
- Excellent Temperature Stability
- Low Noise Figure
- High Sensitivity

### Applications:

- Automobile GPS/GLONASS
- Bluetooth Receiver
- Car Tracking Navigation System
- AVL / Fleet Management Systems
- External Antenna for Handheld GPS/GLONASS
- External Antenna for PDA Navigator

### Specifications:

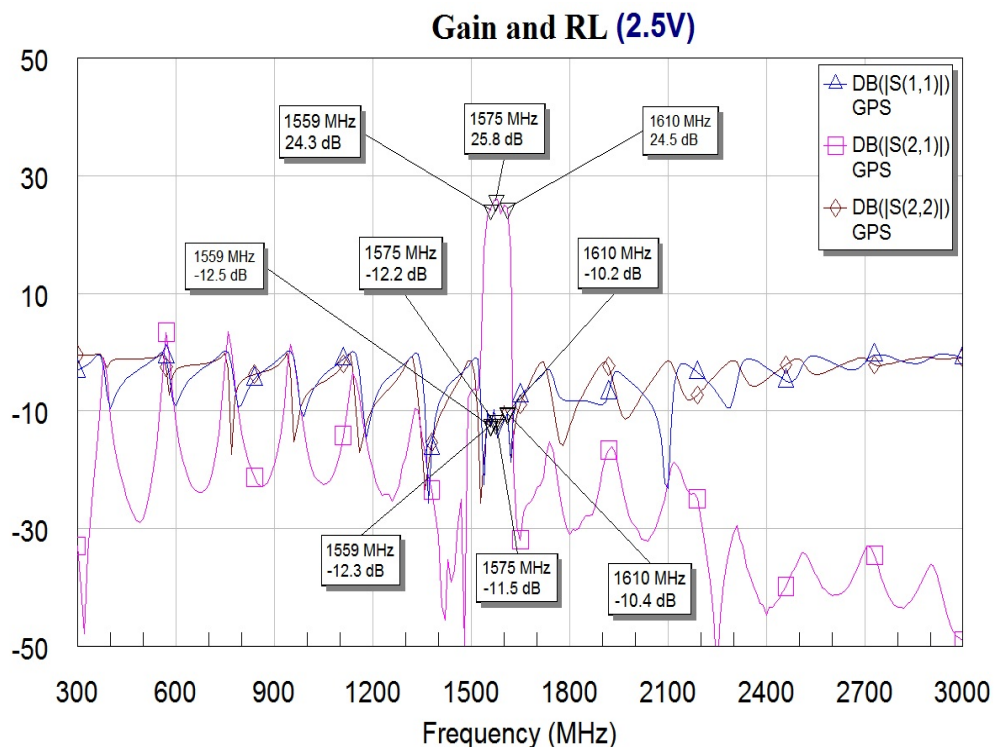
PHYSICAL CONDITION	
Dimension:	25mm x 55mm
Weight:	50 g
Standard Mounting:	screw mount
ANTENNA ELEMENT	
Frequency:	1575~1602Mhz

Polarization:	R.H.C.P. (Right Hand Circular Polarization)
Absolute Gain at Zenith:	0.5 dBic
Axial Ratio:	3.0 dB Typ.
Output VSWR:	2.0 Max.
Output Impedance:	50 ohm
Ground size	50mm*50mm
<b>LOW NOISE AMPLIFIER</b>	
Center Frequency:	1575~1602MHz
Gain:	27dB Typ.
Band Width:	5 MHz min. @S11-8 dB
Noise Figure:	1.5 Typ.
Supply Voltage:	2.5V~5 V DC
Current Consumption:	9.0~15 mA
Output Impedance:	50 ohm
<b>CABLE &amp; CONNECTOR</b>	
RF Cable:	
Pulling Strength:	6 Kg/5 sec. with molded plastics on connector end for strain relief (w/o cable loss)
Connector Available:	N(M) or SMA(M)
Optional Adapters:	
<b>ENVIRONMENTAL CONDITIONS</b>	
Operating Temperature:	-40°C~+85°C
Storage Temperature:	-40°C~+90°C
Relative Humidity:	10~95% non-condensing

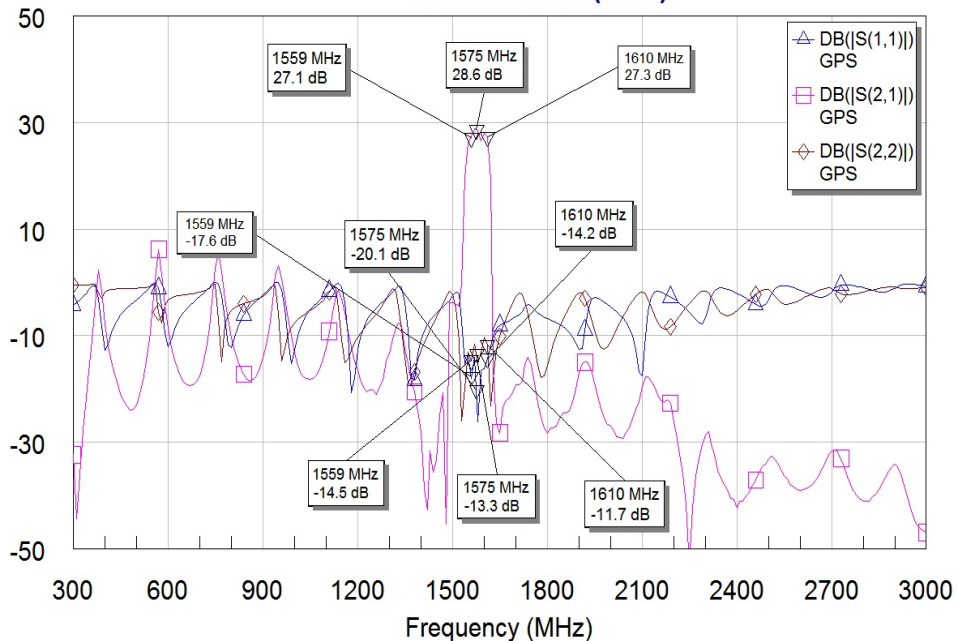
\* This specification is subject to change without prior notice

Data Updated: JUN 18, 2013

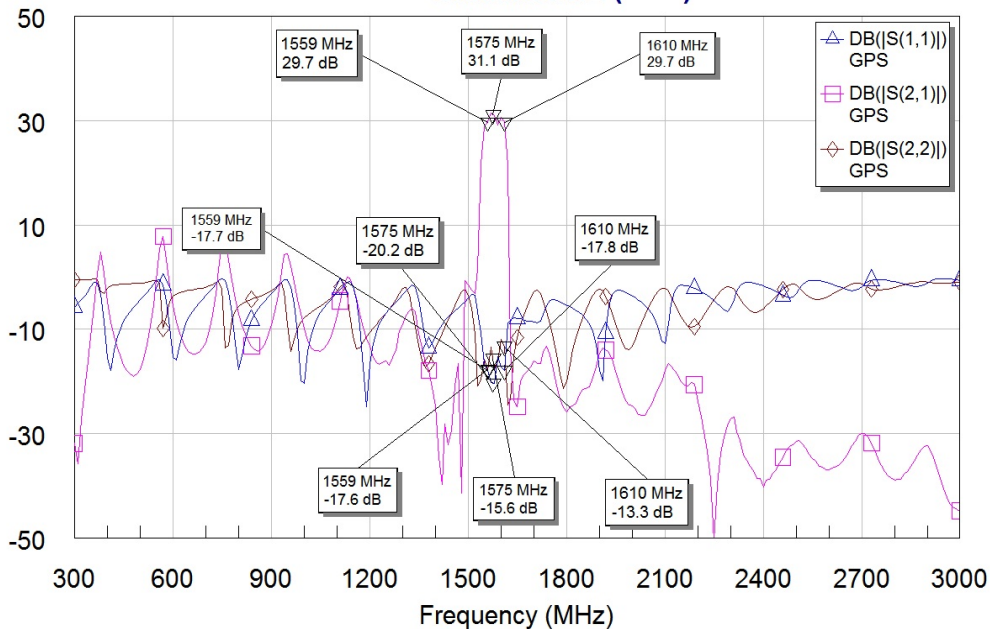
## I. Insertion Gain for LNA:



### Gain and RL (3.5V)



### Gain and RL (4.5V)



### Gain and RL (5.5V)

