

SPECIFICATION

Part No. : **AA.160.301111**

Product Name : Magnet Mount GPS-GLONASS-GALILEO
Antenna

Feature : 1575MHz – 1609MHz
Magnetic Mount
Custom cables and connectors available
RoHS Compliant



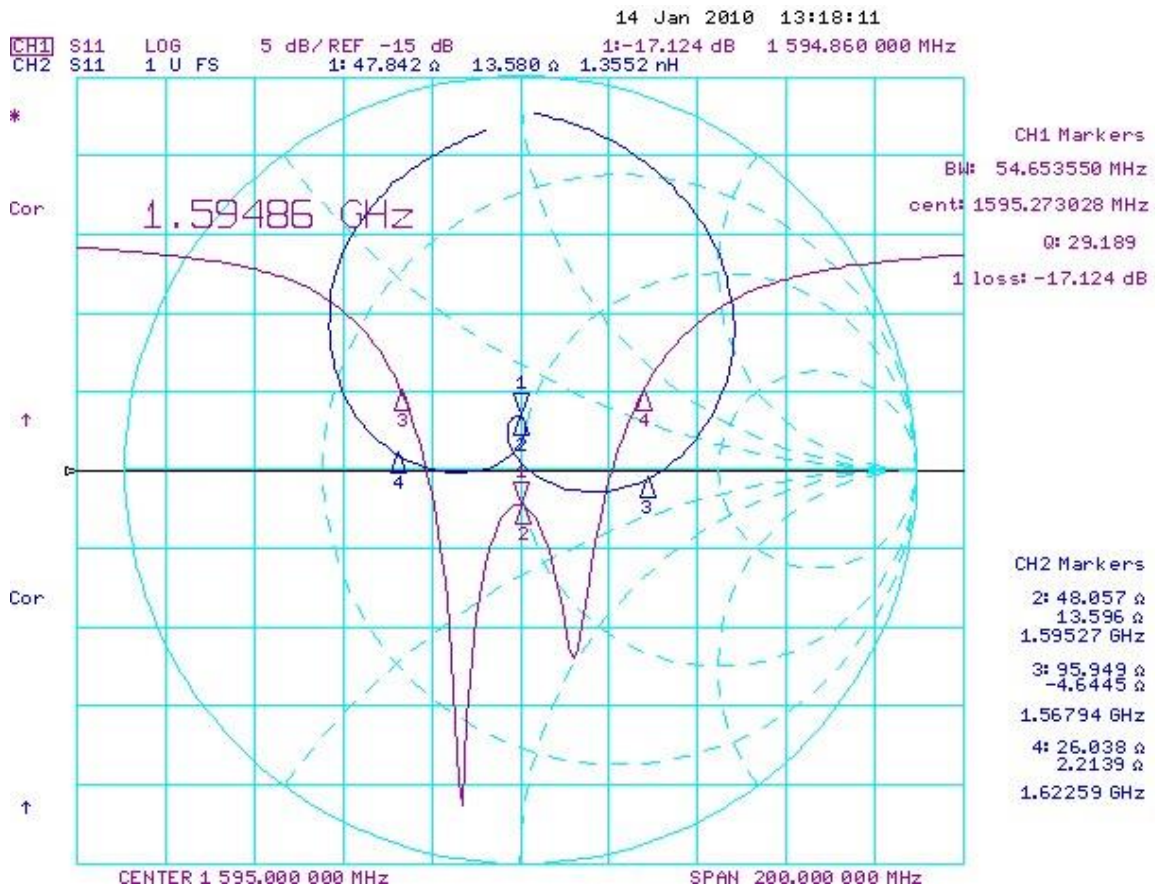
1. Introduction

This antenna is designed for applications which require high positioning accuracy by combining signals from GPS, GALILEO and GLONASS systems. High gain wide-band patch antenna on a large integral ground delivers maximum performance.

2. Specification

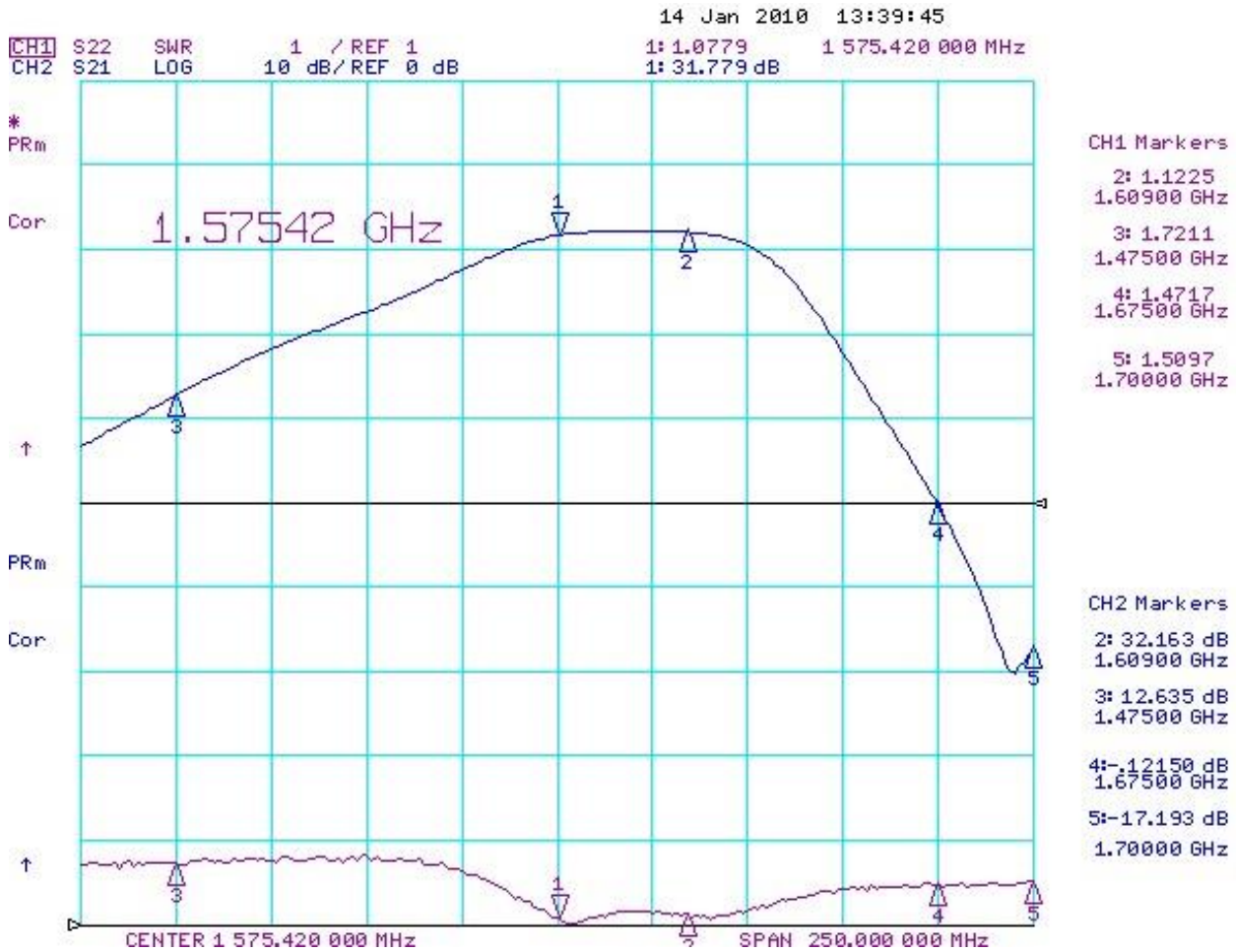
| CERAMIC PATCH | |
|----------------|--|
| Frequency | 1575-1609MHz |
| Bandwidth | 40MHz min. |
| VSWR | 1.5:1 |
| Peak Gain | 4.0dBic (70*70mm Ground Plane) |
| Impedance | 50 Ohm |
| Polarization | RHCP |
| LNA | |
| Noise Figure | 1.5dB Typ. |
| Output VSWR | <2.0 Max. |
| LNA Gain | 32dB Typical (without cable) |
| DC Power Input | 3-5V |
| Impedance | 50 Ohm |
| DC Current | 8.5mA @5.0V Typ. |
| MECHANICAL | |
| Dimensions | 36*36*6mm |
| Antenna | Dielectric Ceramics |
| PCB | FR4 |
| Shielding | Tinplate |
| Cable | RG-174 Length = 3M |
| Connector | SMA(M) |
| ENVIRONEMTNAL | |
| Working Temp | -40°C~+85°C |
| Storage Temp | -40°C~+100°C |
| Vibration | Sine sweep 1g(0-p) 10~55~10Hz each axis |
| DC Voltage | DC=3-9V |

3. S11 Performance Comparison (Passive Patch – separated from the LNA)

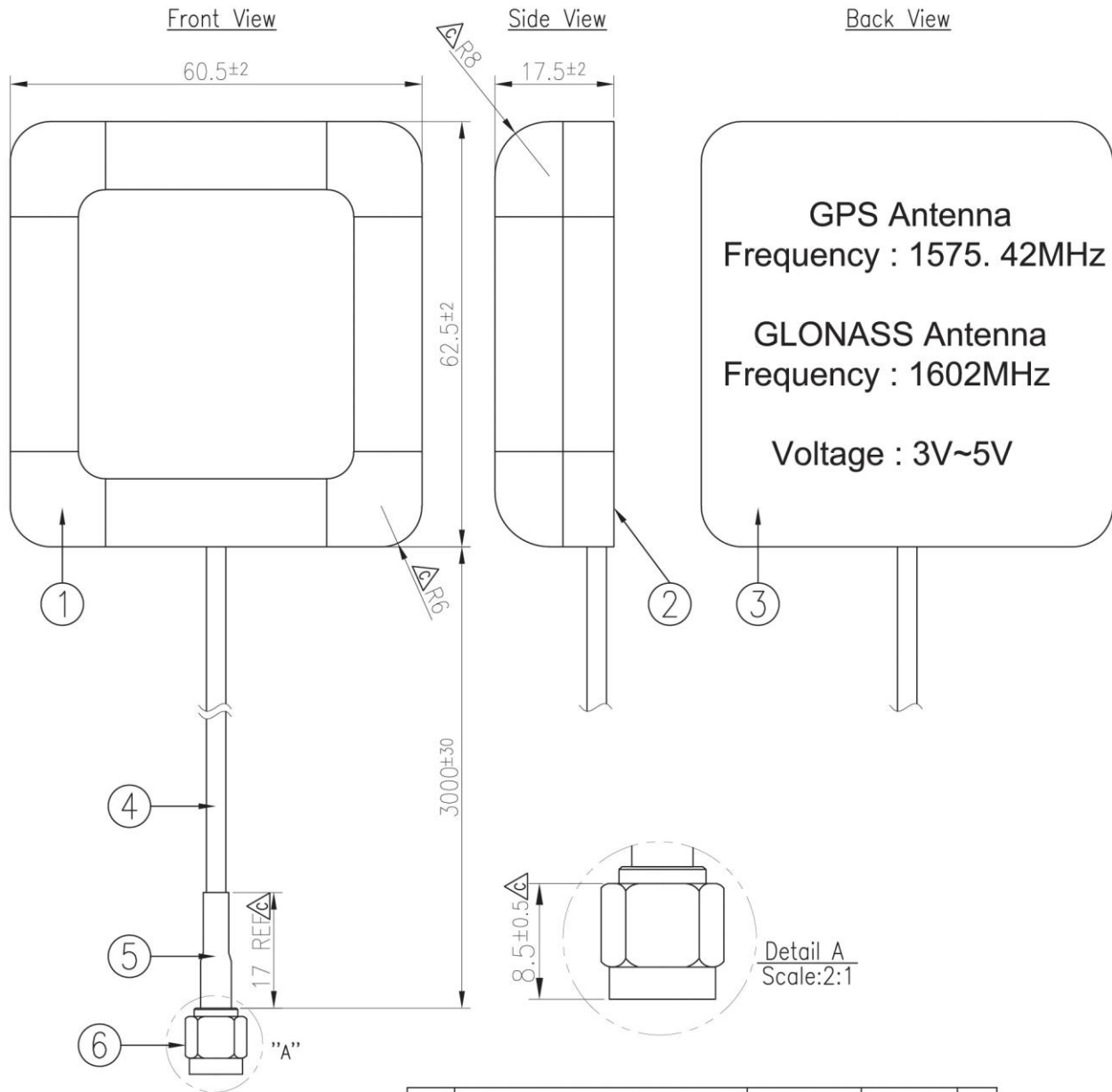




4. S21/S22 Performance Comparison (LNA)



5. Drawing



| | Name | Material | Finish | QTY |
|---|-------------------------------|----------|-----------|-----|
| 1 | AA.160 Antenna Housing Top | ABS+PC | Black | 1 |
| 2 | AA.160 Antenna Housing Bottom | ABS+PC | Black | 1 |
| 3 | AA.160 Sticker | Terylene | Silver | 1 |
| 4 | RG174 Coaxial Cable | PVC | Black | 1 |
| 5 | Heat Shrink Tube | PE | Black | 1 |
| 6 | SMA(M)ST | Brass | Au Plated | 1 |

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