

A-110 GPS Antenna



Features

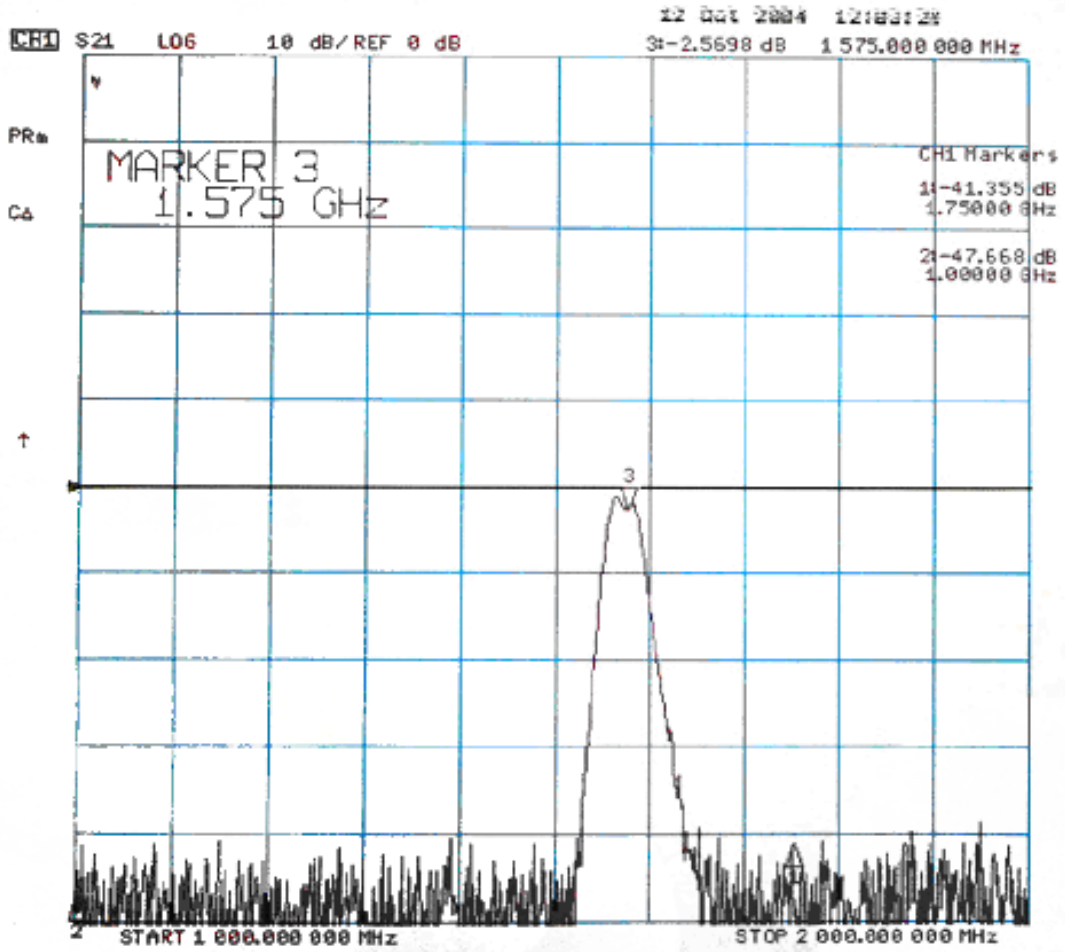
- Magnetic base
- Weatherproof
- Compact size
- Easy to install
- 10 watt RF protection design
- Wide power supply range and short-circuit protection
- 3 signal noise filters and 2-stage LNA
- Silver-coated conducting pin
- Double-shielding cable
- RoHS compliant
- IP66 standard waterproof (optional)

Specifications

| Architecture | |
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| RF protection (10 watt) | |
| 2 Stages active LNA (Low Noise Ampflier) | |
| Dual Filters, (HPF & LPF (Lump element)) | |
| Dielectric Patch antenna | |
| Low Noise Low drop-out, Linear Regulator | |
| GPS receiver short circuit protect | |
| Low Loss RG/174 Coax cable | |
| Aluminum Base/ PC+ Radome Plastic | |
| Performance | |
| Receiving Frequency | L1 Band (1575.42±1.023 MHz) |
| Output Impedance | 50 ohms |
| Polarization's | Right Hand Circular (RHC) |
| Bandwidth | 10dB Mhz @ -3dB point |
| VSWR | 1.5 Typical @ 1575 MHz |
| Elev. Angle Coverage | 5~90° |
| Az. Bearing Coverage | 360° |
| Filtering | Dual (BPF <10 Mhz B/W, LPF @1576 MHz Stop-band @ 1585 MHz) |
| Over-all Gain | 28 dB (typical including 4dB cable loss & Filters) |
| Over-all NF | <1.8 dB @fo, 2 dB max. |
| LNA Characteristic | K=>1 Un-conditionally Stable |
| RF Insertions loss | 0.1 dB, leakage power 100 mW /1 watt input |
| Power Consumption | 11 mA to 13 mA (max) |
| Power Input Sensor | Reverse Polarity Short Circuit shutdown |
| Over-Current Sensor | Thermal Over-current shutdown >+150degreeC |
| Electrical | |

| | |
|--|--|
| Power Input | +3 Vdc to + 6 Vdc input, Auto Switching |
| <i>Mechanical & Environmental</i> | |
| Dimensions | 31 x 24.5 x 7mm +/-0.5mm |
| Mount | Magnetic |
| Color | Black |
| Coax Connector | BNC SMB Fakra SMA MCX MMCX GT5 or on request |
| Cable Length | 3M, 5M or upon request |
| Coax Cable | RG-174U double shielded, Low Loss 0.7dB/m |
| Operating Temperature | -30 to + 85° C |
| Storage | -40 to + 90° C |
| <i>Option - OEM Hardware</i> | |
| Open Frame Antenna , with RF shield | |
| Open Frame with 3" Flanges & RF shield | |
| Ant + Aluminum Base | |

Active-1 PLOT-1



Active-1 PLOT-2

