

A-110 GPS Antenna



Features

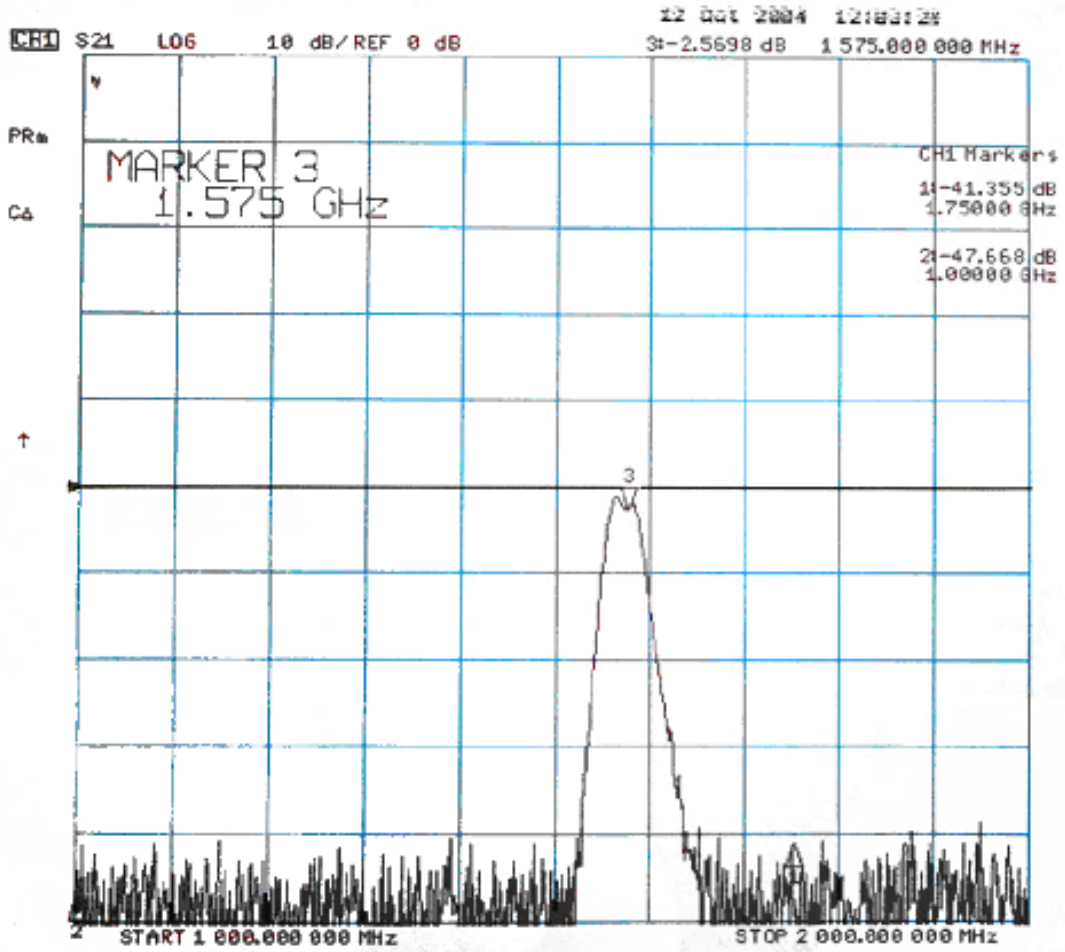
- Magnetic base
- Water proof (IP66)
- Compact size
- Easy to install
- 10 watt RF protection design
- Wide power supply range and short-circuit protection
- 3 signal noise filters and 2-stage LNA
- Silver-coated conducting pin
- Double-shielding cable
- RoHS compliant

Specifications

Architecture	
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

