

High Rejection Dual Filter Mobile GPS Antenna for High RF Noise Environments



The 3911D-HR low interference GPS Antenna with Dual SAW High Rejection Filters allow excellent performance in high RF noise environments as found on vehicles with multiple antennas. It is ideal for fleet tracking, public safety, transit, precision agricultural and military applications.

The 3911D-HR features ESD circuit protection, an innovative two-stage low noise amplifier and a dual SAW high rejection filter. It also features a custom designed ceramic patch element that minimizes detuning effects caused by adjacent objects. The 3911D-HR provides consistent, clear GPS signal reception while minimizing loss-of-lock in high-RF fields. Housed in a weatherproof magnetic or screw mount enclosure, the 3911D-HR GPS antenna is ideal for demanding vehicle mounted GPS applications.



3911D-HR

Features

- High rejection dual SAW filters allow placement near other transmitting antennas
- Low current: 7.5 mA @ 3.3V
- Wide voltage input range (2.7 - 5 VDC)
- Robust IP67 housing built for various weather conditions

STANDARD CONFIGURATION

Model	Cable	Connector	Mount
3911D-HR	16.4' (5 meters) highly flexible 174 sized cable	SMA standard*	Magnetic (5 lb lift-off force) or permanent (pre-threaded for 3 x M2.5 screws)

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Range	LNA Gain	Element Gain	Polarization
1575.42 ± 10 MHz	25 dB @ 3.3 VDC 25.5 dB @ 5 VDC	3 dBic @ 90° -2 dBic @ 20°	Right hand circular

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

Out of Band Rejection	Current Draw	DC Voltage	Noise Figure
> 50 dBc @ ± 40 MHz	7.5 mA @ 3.3V 11.5 mA @ 5V	2.7-5 VDC	3.1 dB

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	Weight	Housing Material	Temperature Range	ESD Circuit Protection	Ingress Protection
2.05" L x 2.33" W x 0.54" H (52.1 x 59.2 x 13.6 mm)	0.29 lbs (130 g)	ASA	-40°C to +85°C operating	15 KV	IP67

* For other connector options, please refer to the GPS Mobile Antenna Configurator Part Number Guide.