

3911D-HR High Rejection Dual Filter Mobile GPS Antenna for High RF Noise Environments

PCTEL's 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.

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

RF/Electrical Specifications

Center Frequency	Nominal Gain	Polarization	Current Draw
1575.42 MHz ± 10 MHz	3 dBic @ 90° -2 dBic @ 20°	Right Hand Circular	7.5 mA @ 3.3V 11.5 mA @ 5V

Mechanical Specifications

Antenna Dimensions	Weight	Shock	Vibration
2.05 L x 2.33 W x 0.54 H in. (52.1 x 59.2 x 13.6 mm)	.29 lbs (130 g)	Vertical axis 50G, other axes 30G	3 axis, sweep = 15 min 10 - 200 Hz log sweep: 3G

Cable	Connector*	Mounting Method
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)

Environmental Specifications

Temperature Range	Weatherproof
-40°C to +85°C operating	IP67

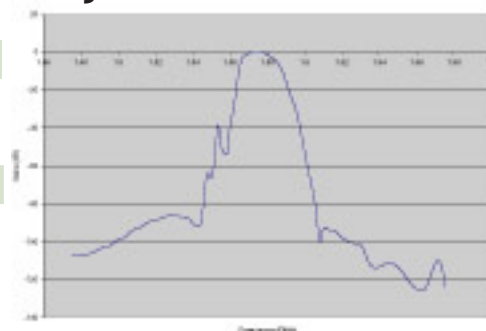


3911D-HR

Low Noise Amplifier Specifications

Nominal Gain: 25 dB @ 3.3 VDC 25.5 dB @ 5 VDC
Noise Figure: 3.1 dB
Out-of-Band Signal Rejection: See chart below
Voltage: 2.7-5 VDC
ESD Circuit Protection: 15K volts

Out-of-band Filter Rejection



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