



## 3927D Low Cost Magnet Mount GPS Antenna

The 3927D is a low cost magnet mount GPS antenna. It features a precisely tuned ceramic patch antenna, 15KV ESD protection, a two stage Low Noise Amplifier (LNA) and a mid-section SAW filter that provides superior out-of-band signal rejection. Housed in a very compact all plastic weatherproof enclosure, the 3927D can be installed almost anywhere on a vehicle allowing great flexibility. With its 2.7 to 5 volt operation, the 3927D can be used with the vast majority of GPS system available in the marketplace.

### Features

- All plastic weatherproof housing
- 26 dB LNA gain @ 3.3V
- Low noise figure 1.5dB



### Low Noise Amplifier Specifications

Nominal Gain:  
 @ 3.3VDC: 26 dB  
 @ 5VDC: 28 dB

Noise Figure:  
 1.5 dB

Voltage:  
 2.7-5 VDC

### RF/Electrical Specifications

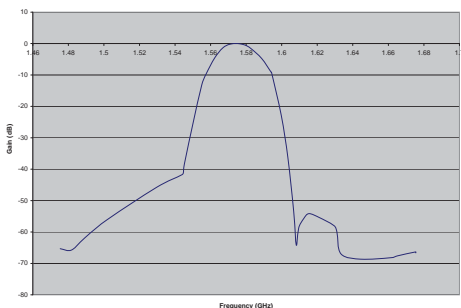
Center Frequency	Nominal Gain	Polarization	Current Draw
1575.42 MHz ± 10 MHz	3 dBic @ 90° -2 dBic @ 20°	Right Hand Circular	9 mA @ 3.3V 15 mA @ 5V

### Mechanical Specifications

Antenna Dimensions	Weight	Shock	Vibration
1.43" x 1.36" x .48" (37.6 x 34.6 x 12.3 mm)	.88 oz (25 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) RG174	SMA male	Magnetic (5 lb lift-off force) or permanent (pre-threaded for 3 x M2.5 screws)

### Out-of-band Filter Rejection



### Environmental Specifications

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

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