

3914D Very Low Current Mobile GPS Antenna

PCTEL's 3914D GPS antenna is an industry leader in low power consumption. It features ESD circuit protection, an innovative very low noise LNA and a high rejection SAW filter. It also features a precision tuned ceramic patch element that minimizes detuning effects caused by adjacent objects. The 3914D is ideal for portable applications where low power operation is a necessity.

The 3914D 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 3914D is ideal for most demanding, power critical GPS applications.

Features

- Extremely low current: 2 mA @ 2.7 VDC
- Low noise figure: 1 dB
- 18 dB gain
- Robust IP67 housing built for various weather conditions
- ESD circuit protection: 15 KV



3914D

RF/Electrical Specifications

Frequency Range	Nominal Gain	Polarization	Current Draw
1572.5 - 1578 MHz	3 dBic @ 90° -2 dBic @ 20°	Right Hand Circular	2 mA @ 2.7V

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)	.26 lbs (120 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	Ingress Protection
-40°C to +85°C operating	IP67

Low Noise Amplifier Specifications

Nominal Gain: 18 dB @ 3.3 VDC
Noise Figure: 1 dB (typical)
Out-of-Band Signal Rejection: > 30 dB @ ± 30 MHz
Voltage: 2.5-3.3 VDC

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