

3917D Value Mobile GPS Antenna



3917D

PCTEL's 3917D GPS antenna is a high performance value antenna with a wide voltage range, ideally suited to telematics platforms for use in vehicle-mounted applications. Using internal magnets or screw mount holes, the antenna can be installed almost anywhere on a vehicle allowing for greater flexibility. The 3917D antenna features 28 dB gain low noise amplifier and a SAW filter. With 2.7 to 5 volt operation, the antenna can be used with the vast majority of GPS systems available.

Features

- Voltage range 2.7 - 5 V
- LNA 28 dB gain typical
- Low noise figure 1.5dB

Low Noise Amplifier Specifications

Nominal Gain: @ 3.3 VDC: 28 dB @ 5 VDC: 30 dB
Noise Figure: 1.5 dB (typical)
Out-of-band Signal Rejection: > 30dB @ ± 40 MHz
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
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
9.8' (3 meters) highly flexible 174 sized cable	Male 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



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