

GPS L1/L2 Active, High Gain, High Performance Magnetic Mount Antenna



The GPS-L1L2-MAG is a high gain and high performance antenna designed to meet stringent MIL-STD-810G environmental standards. The antenna features a multi-stacked patch design covering GPS L1 and L2 frequencies, a multi-stage LNA and advanced filtering to combat the effects of adjacent band interference. The antenna has a hermetic seal for long lasting trouble free deployments and durability. This antenna comes with a 5 year warranty.



GPS-L1L2-MAG

Applications

- Military Vehicle Tracking & Asset Tracking
- Precision Agriculture
- Differential Correction

STANDARD CONFIGURATION

Model	Connector	Mount	Housing Color
GPS-L1L2-MAG	SMA Female	Magnetic mount with > 20 lb pull force	White

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Range	LNA + Antenna Gain	Polarization	Current Draw
1575.42 ± 10 MHz (GPS L1) 1227.60 ± 10 MHz (GPS L2)	28 dB +/- 3 dB @ 25C	Right hand circular	37 mA typical ≤ 50 mA

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

DC Voltage	Noise Figure	VSWR	Axial Ratio	Nominal Impedance
2.5-5.5 VDC through connector	2.5 dB (maximum)	2.0:1 (Typical)	@ 30° Elev.: < 10 dB @ 45° Elev.: < 9 dB @ 70° Elev.: < 4 dB	50 ohms

MECHANICAL SPECIFICATIONS

Dimensions	Weight	Housing Material
2.75" D x 0.95" H	5.7 oz nominal	ASA

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	Ingress Protection	Immersion	Vibration
-40°C to 85°C	IP67	IEC 60529, Immersion Depth 1 M	MIL-STD-810G Method 514.6 Procedure 1