

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

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The GPS-L1L2-MAG is designed to meet MIL461 standards for Electromagnetic Interference (EMI) as well as DO-160 standards for airborne equipment. The package is robust with a hermetic seal for long lasting, trouble free deployment and durability.



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)	33 dB +/- 3 dB @ 25C, 3.3V	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 24 V survival voltage	2.5 dB (maximum)	2.0:1 (maximum)	@ 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	Altitude	ESD Protection	Immersion	Vibration
-40°C to 85°C	70,000 ft	Mil. Std. 464A	Mil Std 810F, Method 512.4, Procedure 1 with immersion depth 2 m	Mil Std 810F, Method 514.5, Procedure II, Category 5