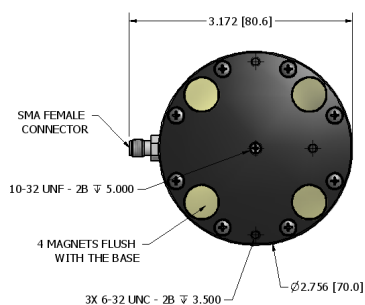
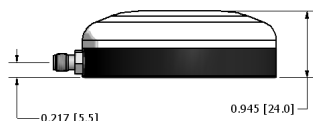




GPS-L1L2-28MAG



Low Noise Amplifier (LNA) Specifications

Frequency Band (MHz): 1575.42 +/-10 MHz (GPS L1) 1227.60 +/-10 MHz (GPS L2)
Amplifier Gain: 33 dB +/- 3dB (GPS L1) 35 dB +/- 3dB (GPS L2)
Nominal Impedance: 50 ohms
Output VSWR: 2.0:1 (max.)
Noise Figure: 2.5 dB (max.)
DC Voltage: 2.5 to 5.5 VDC through connector 24V survival voltage
DC Current: 37 mA typical ≤ 50 mA

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

The GPS-L1L2-28MAG 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.

Key Applications

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

Antenna Element Electrical Specifications

Frequency Band	Nominal Impedance	VSWR	Polarization	Grounding Protection	RF Input
1575.42 +/-10 MHz (GPS L1)	50 ohms	< 2.0:1	Right hand circular	DC grounded	SMA female
1227.60 +/-10 MHz (GPS L2)					

Frequency Band	Gain @ 10° Elev.	Gain @ 90° Elev.	Axial Ratio @ 30° Elev.	Axial Ratio @ 45° Elev.	Axial Ratio @ 70° Elev.
1575.42 +/-10 MHz (GPS L1)	> 3 dBic	4 dBic	< 4 dB	< 3 dB	< 2 dB
1227.60 +/-10 MHz (GPS L2)	> 3 dBic	4 dBic	< 4 dB	< 3 dB	< 2 dB

Mechanical Specifications

Antenna Dimensions	Antenna Weight	Radome Color*	Mounting Method
2.75" D x 0.95" H	5.7 oz. nominal	White	Magnetic mount with > 20 lb pull force

Environmental Specifications

Temperature	Altitude	ESD Protection
-40°F to +185°F (-40°C to 85°C)	70,000 ft	Mil. Std. 464A

Immersion	Vibration
Mil Std 810F, Method 512.4, Procedure 1 with immersion depth 2 m	Mil Std 810F, Method 514.5, Procedure II, Category 5

*Custom color options are available upon request

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