GPS L1/L2, L Band & GLONASS L1 Active, High Performance Magnetic Mount Antenna

The GPS-LB12GL-MAG is designed to meet DO-160 standards for airborne equipment. The Arinc 743 form factor is robust with a hermetic seal for long lasting, trouble free deployment and durability.

GPS-LB12GL-MAG

Applications

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

STANDARD CONFIGURATION

Model	Connector	Mount	Radome
GPS-LB12GL-MAG	SMA Female	Magnetic mount with > 20 lb pull force	Color: White*

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Range	LNA Gain	Element Gain	Polarization	Current Draw	DC Voltage
1575.42 ± 10 MHz (GPS L1) 1227.60 ± 10 MHz (GPS L2) 1525.00-1610.00 MHz (L Band) 1602.00 ± 10 MHz (GLONASS L1)	33 dB ± 4 dB	@ 10° Elev.: -5 dBic (GPS L1), -6 dBic (GPS L2), -7 dBic (L Band), -7 dBic (GLONASS L1) @ 90° Elev.: 2 dBic (GPS L1), 3 dBic (GPS L2), 1 dBic (L Band), 0 dBic (GLONASS L1)	Right hand circular	42 mA typical ≤ 50 mA	3.3-12.0 VDC through connector 30 V survival voltage

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

VSWR	Noise Figure	Axial Ratio	Nominal Impedance
< 2.0:1	2.5 dB (typical)	@ 30° Elev.: ≤ 11 dB (GPS L1), ≤ 7 dB (GPS L2), ≤ 11 dB (L Band), ≤ 11 dB (GLONASS L1) @ 45° Elev.: ≤ 9 dB (GPS L1), ≤ 6 dB (GPS L2), ≤ 9 dB (L Band), ≤ 9 dB (GLONASS L1) @ 90° Elev.: ≤ 4 dB (GPS L1), ≤ 2 dB (GPS L2), ≤ 4 dB (L Band), ≤ 4 dB (GLONASS L1)	50 ohms

MECHANICAL SPECIFICATIONS

Dimensions	Weight	Housing Material
119.6 L x 80.4 W x 28 H mm (4.71″ x 3.17″ x 1.10″)	6.8 oz nominal	ASA

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	Altitude	ESD Protection	Immersion	Vibration
-40°C to 85°C	70,000 ft	15kV	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 available upon request.