## 31.5 dBi Active GPS Magnet Mount Antenna RHCP 1575 MHz, RG174 SMA Male IPX6

### LCANGPS1012

#### Features

- SMA Male
- · Right Hand Circular Polarizied
- 28 dB LNA w/ low 1.5 dB Noise Figure

#### **Applications**

- GPS L1
- High Accuracy Global Positioning
- · Precision Agriculture, Mining and Construction

#### Description

The L-com Active GNSS Antenna LCANGPS1012 is Right Hand Circular Polarized with an integrated Neodymium Rare Earth Magnet for a secure mount. The LCANGPS1012 is an active GPS L1 band antenna with 31.5 dBi Gain. These Magnet Mount active GNSS antenna units

Our GNSS antenna specialists are ready and available to answer any questions you may have on the LCANGPS1012. This high quality SMA male antenna meets GPS L1 requirements by operating in the 1574 MHz to 1577 MHz frequency range.

are ideally suited for use on vehicles where low profile, low drag, non-penetrating style antennas are needed.

The LCANGPS1012 GNSS antenna series from L-com are designed for mobile, vehicle, or fleet servies to receive GNSS signals from satellite constellations to triangulate geolocations for navigation, tracking, and surveying.

#### Configuration

Design	GPS Active
Band Type	Single
Polarization	RHCP
Cable Type	RG174
Connector Type	SMA Male
Number of Ports	1

#### **Electrical Specifications**

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,574		1,577	MHz
Input VSWR			1.5:1	
Output VSWR			2:1	
Impedance		50		Ohms
Gain		31.5		dBi
Gain Variation		±5		
Noise Figure			1.5	
Operating DC Voltage	3		5	
Current	5.5	8.5	11.5	mA

- Neodymium Rare-Earth Magnet
- IPX6 Rated
- · Law Enforcement and Public Safety
- Vehicle Fleet Management

# If It's Critical, It's L-com







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#### **Specifications by Band**

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	1.574 to 1.577					GHz
Center Frequency	1.575					GHz

#### **Mechanical Specifications**

Size	
Length	1.5 in [38.1 mm]
Width	1.3 in [33.02 mm]
Height	0.5 in [12.7 mm]
Weight	0.14 lbs [63.5 g]

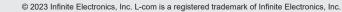
#### **Environmental Specifications**

Temperature	
Ingress Protection	IPX6

#### Compliance Certifications (see product page for current document)

#### **Plotted and Other Data**

Notes:







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**Typical Radiation Pattern** 

#### Appendix

Electrical Downtilt: Angle in the antenna's elevation pattern in which the maximum gain occurs.

Gain: Antenna's average gain.

**Front to Back Ratio @ 180°±30°**: Average difference between the antenna's maximum gain and the maximum gain in the antenna's back lobe over ±30° angles.

Cross-polarization Ratio (dB): Typical difference between the co-polarization and cross-polarization gain across the sector's 3 dB Beam Width.

Dedicated to serving the needs of the Wireless Internet Service Provider (WISP) market, KP Performance Antennas offers purpose built products that reliably perform in the field. KP Performance Antennas product line consists of Yagi, Grid, Omni, Dish and other style antennas that operate in the 900 MHz, 2.4 GHz, 3 GHz, and 5 GHz frequencies.

31.5 dBi Active GPS Magnet Mount Antenna RHCP 1575 MHz, RG174 SMA Male IPX6 from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

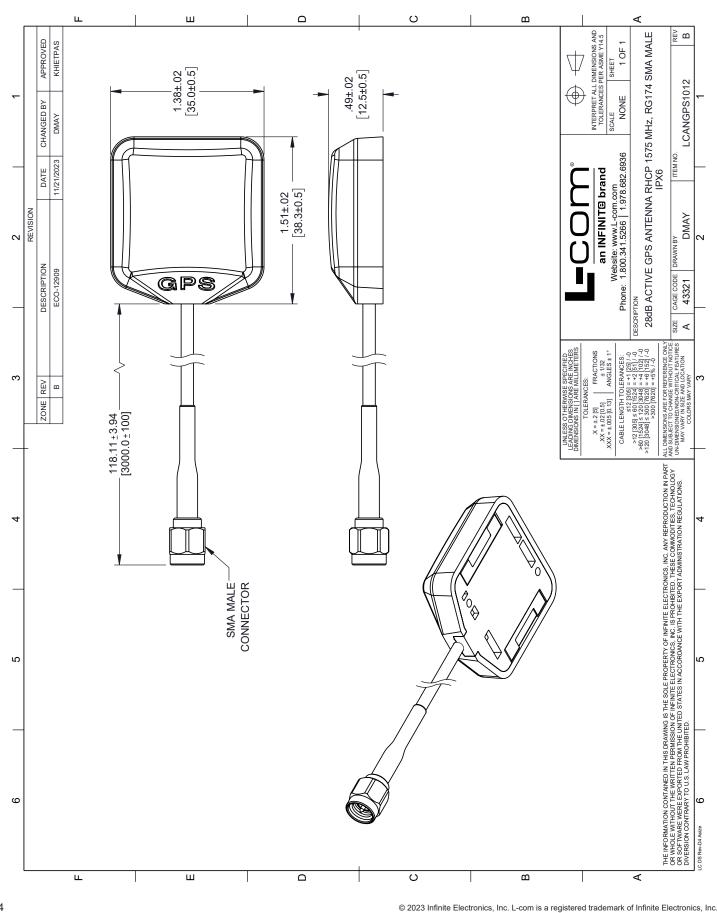
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### LCANGPS1012 CAD Drawing

31.5 dBi Active GPS Magnet Mount Antenna RHCP 1575 MHz, RG174 SMA Male IPX6



USA & Canada +1 (800) 341-5266 | International +1 (978) 682-6936 | L-com.com