

31.5 dBi Active GPS/BeiDou Magnet Mount Antenna RHCP 1561/1575 MHz, RG174 SMA Male IPX6



LCANGPS1014

Features

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

Applications

- · GPS L1/BDS B1
- · High Accuracy Global Positioning
- · Precision Agriculture, Mining and Construction

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

Description

The L-com Active GNSS Antenna LCANGPS1014 is Right Hand Circular Polarized with an integrated Neodymium Rare Earth Magnet for a secure mount. The LCANGPS1014 is an active GPS L1 and BDS B1 band antenna with 31.5 dBi Gain. These Magnet Mount active GNSS antenna units are ideally suited for use on vehicles where low profile, low drag, non-penetrating style antennas are needed.

Our GNSS antenna specialists are ready and available to answer any questions you may have on the LCANGPS1014. This high quality SMA male antenna meets GPS L1 and BDS B1 requirements by operating in the 1559 MHz to 1577 MHz frequency range.

The LCANGPS1014 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	1,559		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		
Out Of Band Rejection	30			dB	
Operating DC Voltage	3		5		
Current	6	9	12	mA	



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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	1.559 to 1.563	1.574 to 1.577				GHz
Center Frequency	1.561	1.575				GHz

Mechanical Specifications

Size

 Length
 1.9 in [48.26 mm]

 Width
 1.5 in [38.1 mm]

 Height
 0.6 in [15.24 mm]

 Weight
 0.2 lbs [90.72 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/BeiDou Magnet Mount Antenna RHCP 1561/1575 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.

URL: https://www.l-com.com/31.5-dbi-active-gps-beidou-magnet-mount-antenna-rhcp-1561-1575-mhz-rg174-sma-male-ipx6-lcangps1014-p. aspx

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