

32 dBi Active GPS/BeiDou Magnet Mount Antenna
RHCP 1561/1575 MHz, RG174 SMA Male IP66



LCANGPS1015

Features

- SMA Male
- Right Hand Circular Polarized
- 28 dB LNA w/ low 1.5 dB Noise Figure
- Neodymium Rare-Earth Magnet
- IP66 Rated

Applications

- GPS L1/BDS B1
- High Accuracy Global Positioning
- Precision Agriculture, Mining and Construction
- Law Enforcement and Public Safety
- Vehicle Fleet Management

Description

The L-com Active GNSS Antenna LCANGPS1015 is Right Hand Circular Polarized with an integrated Neodymium Rare Earth Magnet for a secure mount. The LCANGPS1015 is an active GPS L1 and BDS B1band antenna with 32 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 LCANGPS1015. 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 LCANGPS1015 GNSS antenna series from L-com are designed for mobile, vehicle, or fleet services 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			2:1	
Output VSWR			2:1	
Impedance		50		Ohms
Gain		32		dBi
Gain Variation		±5		
Noise Figure			1.5	
Operating DC Voltage	3		3.6	
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	2 in [50.8 mm]
Width	1.7 in [43.18 mm]
Height	0.7 in [17.78 mm]
Weight	1 lbs [453.59 g]

Environmental Specifications

Temperature

Ingress Protection	IP66
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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.

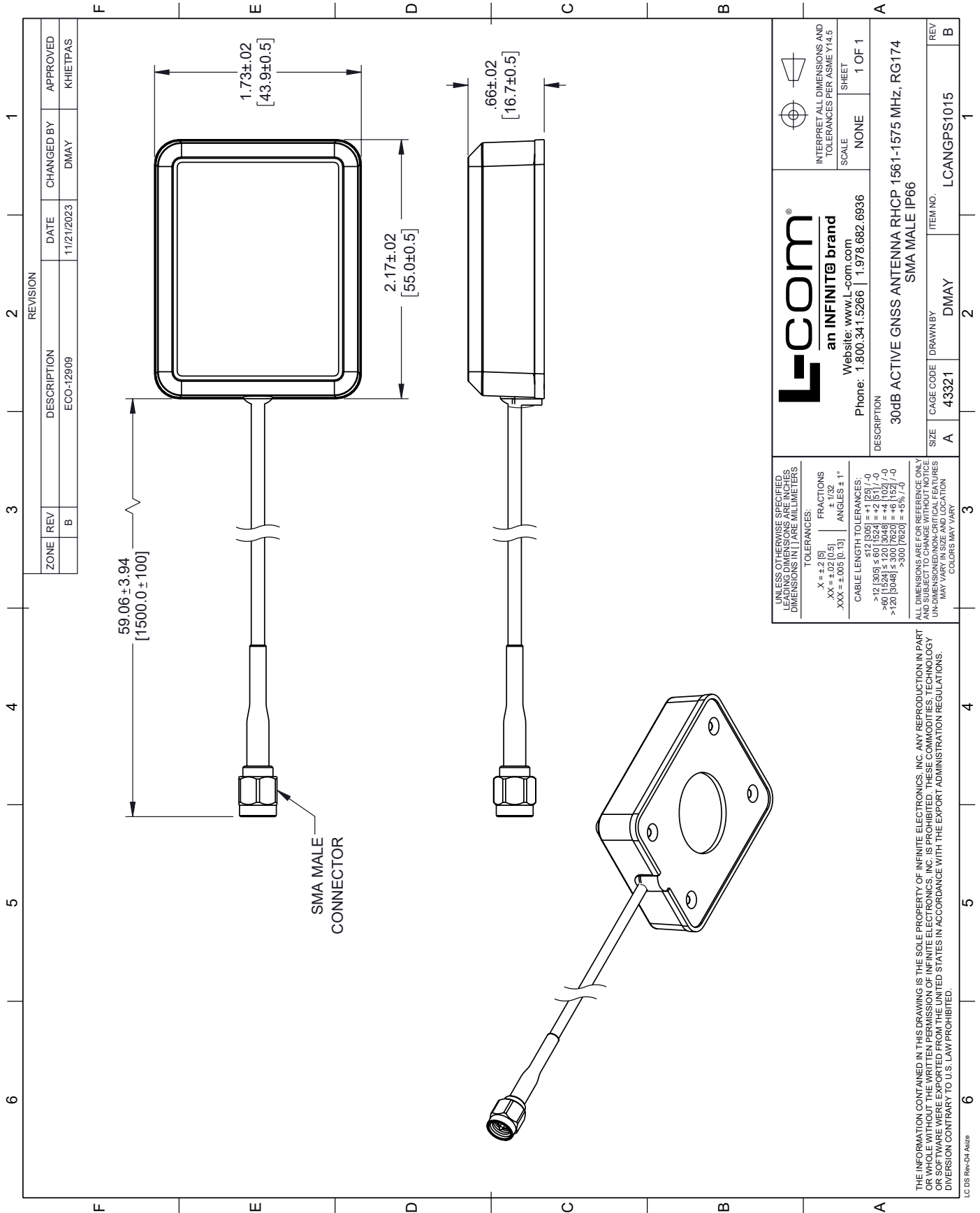
32 dBi Active GPS/BeiDou Magnet Mount Antenna RHCP 1561/1575 MHz, RG174 SMA Male IP66 from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/32-dbi-active-gps-beidou-magnet-mount-antenna-rhcp-1561-1575-mhz-rg174-sma-male-ip66-lcangps1015-p.aspx>

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LCANGPS1015 CAD Drawing

32 dBi Active GPS/BeiDou Magnet Mount Antenna RHCP 1561/1575 MHz, RG174 SMA Male IP66



REVISION		DATE	CHANGED BY	APPROVED		
ZONE	REV	DESCRIPTION	ECO-129/09	11/21/2023	DMAY	KHIETPAS
	B					

 L-com [®] an INFINITE brand Website: www.L-com.com Phone: 1.800.341.5266 1.978.682.6936		INTERPRET ALL DIMENSIONS AND TOLERANCES PER ASME Y14.5 SCALE NONE SHEET 1 OF 1
DESCRIPTION 30dB ACTIVE GNSS ANTENNA RHCP 1561-1575 MHz, RG174 SMA MALE IP66		
SIZE	CAGE CODE	ITEM NO.
A	43321	DMAY
DRAWN BY		REV
LCANGPS1015		B

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.01 [0.5]
 .XX = ±.02 [0.5]
 .XXX = ±.05 [0.13]
 FRACTIONS ± 1/32
 ANGLES ± 1°

CABLE LENGTH TOLERANCES:
 >12 [305] ≤ 60 [1524] = +1 [25] / -0
 >60 [1524] ≤ 120 [3048] = +4 [102] / -0
 >120 [3048] ≤ 300 [7620] = +5 [127] / -0
 >300 [7620] = +5 [127] / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY. DIMENSIONS ON CRITICAL FEATURES MAY VARY IN SIZE AND LOCATION. COLORS MAY VARY.

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