

Dual Band 47dBi Survey GPS/GNSS Antenna 1,205-1,615 MHz TNC Female Connector IP67



LCANGPS1003

Features

- Dual Band
- IP67 Rated
- 1.205-1.278GHz and 1.559-1.615GHz
- Stable Phase Center
- Millimeter Level Accuracy
- TNC Female

Applications

- GPS L1/L2
- GLONASS L1/L2
- Galileo E1
- QZSS L1/L2
- SBAS L1
- Unmanned Vehicles/Vessels
- GIS Surveying
- Autonomous Vehicles

Description

The LCANGPS1003 is an active GPS/GNSS dual band L1/L2 antenna with 47.5 dBi overall gain. This high precision antenna is IP67 rated, light weight and designed for Survey. The active Survey GPS/GNSS antenna is ideally suited for use in harsh operating environments where stability and reliability of GPS/GNSS signal is required.

This antenna operates in the 1.205-1.278GHz and 1.559-1.615GHz bands meeting GPS L1/L2, GALILEO E1 and GLONASS L1/L2 requirements. The LCANGPS1003 antenna has an integrated LNA with 2 dB noise figure and typical LNA gain of 40 dB.

The LCANGPS1003 GPS antenna from L-com, with an axial ratio of 3 dB, can track visible satellites under extreme conditions, providing positioning solutions with accuracy for UAV navigation, autonomous tracking, or GIS surveying.

Configuration

Design	GPS/GNSS
Band Type	Dual
Polarization	RHCP
Connector Type	TNC Female

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,205		1,615	MHz
Output VSWR			2:1	
Impedance		50		Ohms
Gain		47.5		dBi
Noise Figure		2		dB
Operating DC Voltage	3.3		12	Volts
Current			45	mA
Axial Ratio		3		dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Dual Band 47dBi Survey GPS/GNSS Antenna 1,205-1,615 MHz TNC Female Connector IP67 LCANGPS1003](#)

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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	1.205 to 1.278	1.559 to 1.615				GHz
Gain	47.5	47.5				dBi

Mechanical Specifications

Mounting Application	BSW5/8" - 11 screw, 12-14mm
Size	
Length	5.98 in [151.89 mm]
Width	2.44 in [61.98 mm]
Height	2.44 in [61.98 mm]
Weight	1.1 lbs [498.95 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +85 deg C
Storage Range	-55 to +85 deg C
Humidity	95%

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

Plotted and Other Data

Notes:

Dual Band 47dBi Survey GPS/GNSS Antenna 1,205-1,615 MHz TNC Female Connector IP67 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.

The information contained within this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part in order to impliment improvements. L-com reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. L-com does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and L-com does not assume liability arising out of the use of any part or document.

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L-com CAD Drawing

