Active GPS Antenna Dual Band L1/L2 N-Type Female, MIL-STD-810, TAA Compliant



LCANGPS1017

Features

- Dual Band L1/L2
- MIL-STD-810
- N-type Female
- US 4 hole or NATO 3/6 hole pattern
- 20 dBi Gain, 3 dB Noise Figure
- Rugged, low-profile construction
- High 30 dB Out of Band Rejection
- TAA Compliant

Applications

- GPS L1/L2
- Military Vehicles
- Unmanned Vehicles/Vessels
- Autonomous Vehicles
- Rugged, Harsh, Hostile Environments

Description

The LCANGPS1017 is an active GPS dual band L1/L2 antenna, from L-com, with N-type female connector is specifically designed for military and unmanned vehicle applications. This high precision antenna conforms to MIL-STD-810 for humidity, shock, vibration, blowing rain, water immersion and has an altitude rating of 20 Km. The Mil Spec active GPS antenna is ideally suited for use in harsh active operating environments where stability and reliability of GPS signal is required.

Our GPS antenna specialists are ready and available to answer any questions you may have on the LCANGPS1017. This antenna operates in the 1.215 - 1.239GHz and 1.563-1.587 GHz bands meeting GPS L1/L2 requirements. The LCANGPS1017 antenna has an integrated LNA with 3 dB noise figure and gain of 20 dBi. It is mounted using standard US 4 hole or NATO 3/6 hole pattern. L-com's active GPS antenna LCANGPS1017 is in stock and ready to ship.

Configuration

Design	GPS Active
Application Band	L1/L2
Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	RHCP
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,215.6		1,587.42	MHz
Impedance		50		Ohms
Noise Figure			3	
Out Of Band Rejection		30		dB
Operating DC Voltage	1.8		5.5	
Current		16		mA

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency	1.216 to 1.239	1.563 to 1.587				GHz

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Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Center Frequency	1.2276	1.5754				GHz
Gain	20	21				dBi

Mechanical Specifications

Mounting Application	4-hole US and 3/6-hole NATO pattern mount
Size	
Length	5.5 in [139.7 mm]
Width	5.5 in [139.7 mm]
Height	2.56 in [65.02 mm]
Weight	1.3 lbs [589.67 g]

Environmental Specifications

Temperature	
Operating Range	-40 to +71 deg C
Storage Range	-40 to +85 deg C
Humidity	MIL-STD-810E, Method 507.3 Procedure III
Shock	MIL-STD-810F, Method 516.5 Procedure I
Vibration	MIL-STD-810F, Method 514.5 Category 24
Altitude	20,000 meters

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.

Active GPS Antenna Dual Band L1/L2 N-Type Female, MIL-STD-810, TAA Compliant 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.

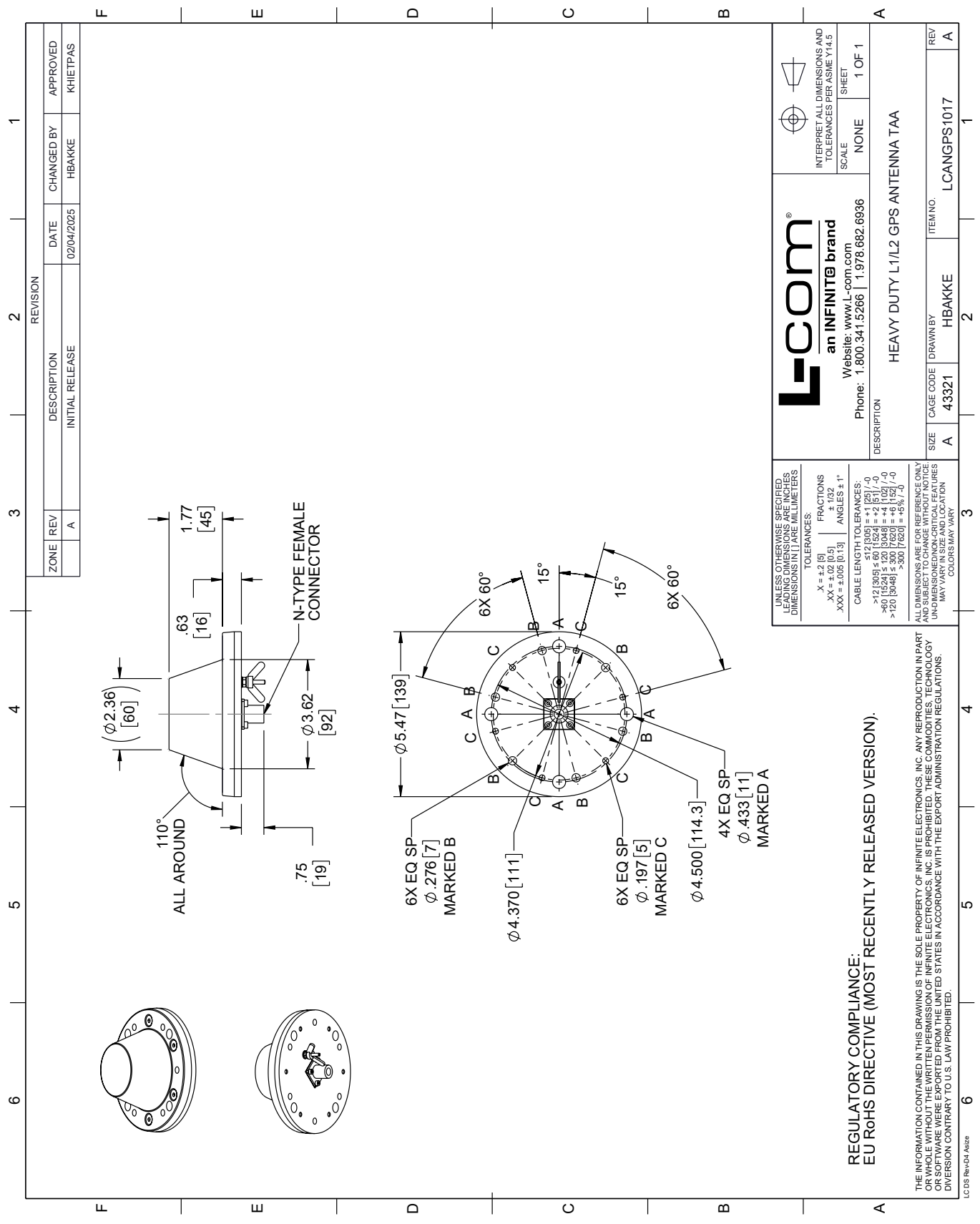
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LCANGPS1017 CAD Drawing

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