

134 to 174 MHz, 4.5 dBi Collinear Omnidirectional Antenna
with N Female, Vertical Polarization, 1 Port, 1.5 VSWR

LCANOM1050



Features

- Frequency coverage for 134 MHz to 174 MHz with Type N Female connector
- Moderate Gain 4.5 dBi / 2.35 dBd antennas
- Easy and quick time to installations
- Industrially tuned antenna allows plug and play
- Environmentally friendly strong fiberglass radome material
- Direct ground lightning protection
- 100 W max input power per port
- Vertical Polarization
- Tunable Frequency

Applications

- Outdoor point-to-point (PtP) or point-to-multipoint (PtMP) applications
- VHF radio applications supported with Trunking for two-way radio communications
- Public Safety / Emergency services / Marine communications / Rail road communications
- Tetra and P-25 Applications exclusively supported
- Land Mobile Radio (LMR) and Private Mobile Radio (PMR)
- Fixed and mobile services for paging/voice/data in full duplex and half duplex mode

Description

The L-com LCANOM1050 4.5 dBi omnidirectional antenna, with N female connector, is an economical yet high-performance antenna designed for high-power applications. This omnidirectional antenna can output frequencies from 134 to 174 MHz, which is useful for military communications, trunking, public safety, industrial communication, and amateur radio applications. This high gain 4.5 dBi antenna transmits high-power signals, increasing the signal strength and thus providing improved coverage, better-broadcast control, and faster speed.

L-com's LCANOM1050 omnidirectional antenna is made of fiberglass, is omnidirectional, and covers good bandwidth and range. It has a 1.5 VSWR that results in the best power transfer and reduced losses. This 134 to 174 MHz VHF/UHF antenna radiates equal power in all directions perpendicular to the axis, with power declining to zero on the axis, when graphed, the radiation pattern describes a doughnut shape. It comes with a N female connector, which is threaded and weatherproof that ensuring a reliable physical connection.

This omnidirectional antenna uses vertical polarization to transmit signals, thus reducing interference and performing better at lower heights. The omnidirectional antenna has 1 port to connect an external circuit with 100W maximum input power per port. All components of this 4.5 dBi antenna are DC grounded for lightning protection, rugged outdoor design, and have a high-power handling capacity.

This antenna with a 4.5 dBi maximum gain is ideal for LMR, military, airports, construction, mining, commercial applications, and radio users. This LCANOM1050 omnidirectional antenna from L-com comes in compact packaging for lower shipping costs, is in stock, and available for same-day shipping. For further information on similar products, our expert technical support and highly trained sales team can get you the perfect 134 to 174 MHz, 4.5 dBi omnidirectional antenna with a N female connector as per your requirement.

Configuration

Band Type	Single
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[134 to 174 MHz, 4.5 dBi Collinear Omnidirectional Antenna with N Female, Vertical Polarization, 1 Port, 1.5 VSWR LCANOM1050](#)

134 to 174 MHz, 4.5 dBi Collinear Omnidirectional Antenna
with N Female, Vertical Polarization, 1 Port, 1.5 VSWR

LCANOM1050



Lightning Protection

DC Ground

Electrical Specifications

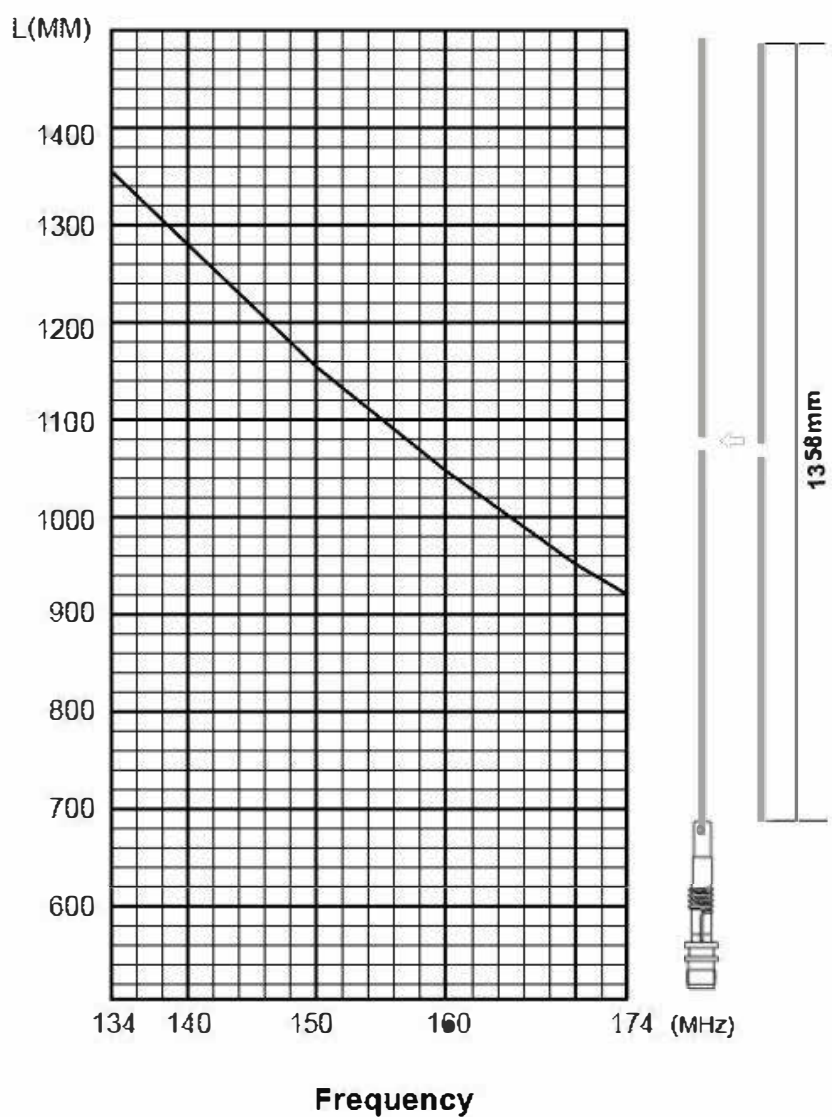
Description	Minimum	Typical	Maximum	Units
Frequency Range (Tunable)	134		174	MHz
Operational Bandwidth		5		MHz
Input VSWR			1.5:1	
Impedance		50		Ohms
Gain			4.5	dBi
Input Power			100	Watts

134 to 174 MHz, 4.5 dBi Collinear Omnidirectional Antenna
with N Female, Vertical Polarization, 1 Port, 1.5 VSWR

LCANOM1050



CUTTING CHART



Mechanical Specifications

134 to 174 MHz, 4.5 dBi Collinear Omnidirectional Antenna
with N Female, Vertical Polarization, 1 Port, 1.5 VSWR

LCANOM1050



Radome Material	Fiberglass
Size	
Length	65 in [165.1 cm]
Width	1.2 in [30.48 mm]
Height	1.2 in [30.48 mm]
Weight	2.42 lbs [1.1 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +80 deg C

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

Plotted and Other Data

Notes:

- Remove the bolt and washer holding the support tube in place.
 - Lower the support tube to expose the N connector.
 - Using an Allen wrench, loosen the set screw holding the N Connector assembly in place.
 - Withdraw the radiating element from the fiberglass tube.
 - Measure and Cut.
 - Reassemble and re-mount.

134 to 174 MHz, 4.5 dBi Collinear Omnidirectional Antenna with N Female, Vertical Polarization, 1 Port, 1.5 VSWR 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 implement 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.

134 to 174 MHz, 4.5 dBi Collinear Omnidirectional Antenna with N
Female, Vertical Polarization, 1 Port, 1.5 VSWR

L-com CAD Drawing

