

138 MHz - 174 MHz 1 Folded Dipole antenna, 4.6 dBi gain,
1/4 Wave Offset pattern, V-pol, Type N Female Connector



LCANED1001

Features

- Frequency coverage for 138 MHz to 174 MHz with Type N Female connector
- Very High Gain 4.6 dBi / 2.45 dBd antennas
- Easy and quick time to installations
- Industrially tuned dipoles made of high-grade aluminum alloys
- 1-Folded dipole antenna has offset pattern with 1/4 wave spacing
- 210° horizontal beamwidth, and 65° vertical beamwidth with Vertical Polarization
- 100 W max input power

Applications

- Outdoor point-to-point (PtP) or point-to-multipoint (PtMP) applications
- VHF radio applications supported with Trunking for two-way radio communications
- Wireless LAN systems, IOT and IIOT low data high coverage applications
- TV Broadcasts and FM radio applications
- Air traffic controllers / Public Safety / Emergency services / Marine communications
- Tetra and P-25 Applications exclusively supported
- Land Mobile Radio (LMR) and Private Mobile Radio (PMR)

Description

The L-com LCANED1001 is a high performance, single element exposed folded dipole antenna designed to operate from 138 to 174 MHz for VHF frequency band communication systems. The LCANED1001 has 4.6 dBi / 2.45 dBd of high gain and can be used for long distance communications over a wide range of applications. The LCANED1001 is ideal for boosting radar, GPR/WPR, FM Radio, TV broadcasts, public safety, LMR / PMR and aviation.

The folded exposed dipole LCANED1001 has 65 vertical beamwidth and 210 horizontal beamwidth. This antenna has Vertical polarization, and the included mounting kit allows for very easy and quick time installations with less effort. These exposed dipoles are already tuned to be Quarter wavelength away from the mast and do not require any further field adjustments. The LCANED1001 exposed dipole antennas are robust, outdoor, weatherproof, and high velocity wind sustainable antennas made up of high-grade aluminum alloys for longevity and resistant to corrosion. These dipole antennas are side mounted 1/4 wave spacing from the mast, has a pigtail terminated with 1 Type N female connector. This premium quality 1-bay dipole antenna has offset pattern with 100W maximum power handling capability.

L-com's 138 to 174 MHz single element Quarter wave exposed folded dipole LCANED1001 antennas with 4.6 dBi/ 2.45 dBd max gain for VHF communication applications. The central support mast is precisely designed for easy dipole attachments which fit tightly for error free and quick installations and ease for transportation. This Quarter wave folded exposed dipole antenna with N Female Type connector is in stock and ready to ship the same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other L-com products.

Configuration

Band Type	Single
Radiation Pattern	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:
[138 MHz - 174 MHz 1 Folded Dipole antenna, 4.6 dBi gain, 1/4 Wave Offset pattern, V-pol, Type N Female Connector LCANED1001](#)

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Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	138		174	MHz
Input VSWR			1.8:1	
Gain		4.6		dBi
Horizontal (Azimuth) HPBW		210		Degrees
Vertical (Elevation) HPBW		65		Degrees
Input Power			100	Watts

Mechanical Specifications

Radome Material	Aluminum Alloy
Size	
Length	59.1 in [150.11 cm]
Width	27.2 in [690.88 mm]
Height	2.4 in [60.96 mm]
Mounting Mast Diameter	1.5748 to 1.9685 in [40.00 to 50.00 mm]
Weight	13.6 lbs [6.17 kg]

Environmental Specifications

Wind Survivability	124.274 MPH [200 KPH]
Humidity	5 to 95

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

Plotted and Other Data

Notes:

138 MHz - 174 MHz 1 Folded Dipole antenna, 4.6 dBi gain, 1/4 Wave Offset pattern, V-pol, Type N Female Connector 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.

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Offset pattern, V-pol, Type N Female Connector

L-com CAD Drawing

