

144, 430 MHz Omni Antenna 4.5 dBi Gain,  
NMO Connector, Black ABS Radome



## LCANOM1081

### Features

- Vertically Polarized
- 4.5 dBi Gain
- NMO Connector
- Black ABS Radome
- 1.5:1 VSWR Max
- 30 Watt Max Input Power

### Applications

- Offroad/Overland Vehicles
- Mining/Industrial Heavy Equipment
- Commercial Trucking
- Fleet Management
- Farm Equipment

### Description

The L-com LCANOM1081 is a dual band antenna that ships on the same day as ordered. Our vertical polarized antenna with 144 to 430 MHz frequency range has a NMO male connectors. This antenna with a black radome made of ABS has an overall length of 3.54 in, a width of 1.42 in, and a weight of 1 lbs.

L-com's LCANOM1081 is a dual band antenna operating from 144 to 430 MHz with 4.5 dBi gain. The omni directional antenna has a maximum input VSWR of 1.5:1.

L-com has one of the largest in-stock collections of omni directional antennas with our wide selection of superior quality RF parts, that ship same day. Make your online purchase right now to take advantage of our same-day shipping. For further information on similar products, our expert technical support and knowledgeable sales team can help you get the ideal dual band antenna as per your requirement.

### Configuration

Band Type	Dual
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	NMO

### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	143		432	MHz
Impedance		50		Ohms
Gain		4.5		dBi
Input Power			30	Watts

### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Frequency	0.143 to 0.145	0.428 to 0.432				GHz
Gain	4.5	4.5				dBi
VSWR Max	2:01	2:01				

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### Mechanical Specifications

**Size**

Length	3.54 in [89.92 mm]
Width	1.42 in [36.07 mm]
Height	1.42 in [36.07 mm]
Weight	1 lbs [453.59 g]

### Environmental Specifications

**Temperature**

Operating Range	-40 to +80 deg C
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**Compliance Certifications** (see [product page](#) for current document)

### Plotted and Other Data

Notes:

### 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.

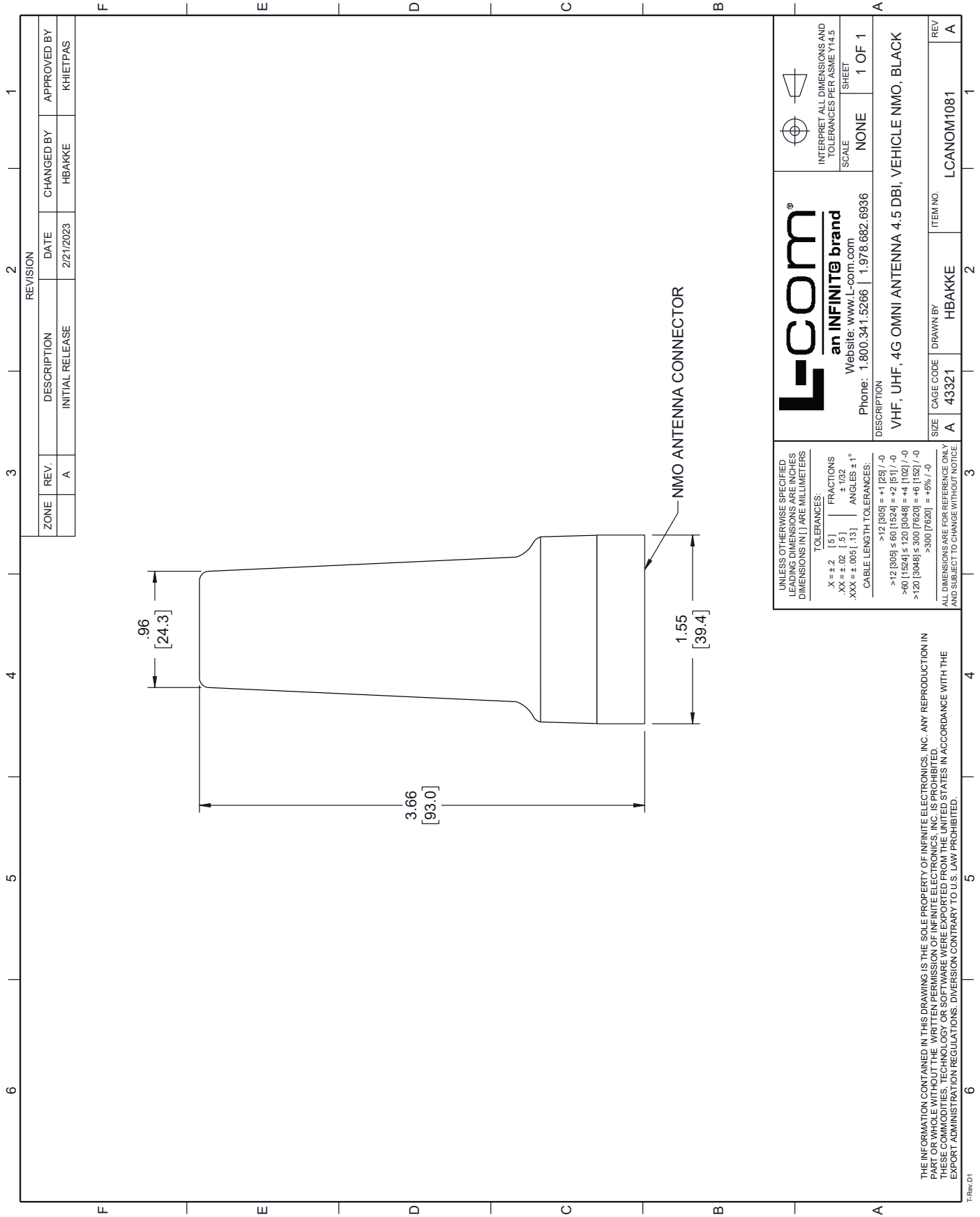
144, 430 MHz Omni Antenna 4.5 dBi Gain, NMO Connector, Black ABS Radome from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/144-430-mhz-omni-antenna-4.5-dbi-gain-nmo-connector-black-abs-radome-lcanom1081.html>

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# LCANOM1081 CAD Drawing

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ZONE		REVISION		APPROVED BY	
REV.	DESCRIPTION	DATE	CHANGED BY	KHIETPAS	
A	INITIAL RELEASE	2/21/2023	HBAKKE		

 <b>L-com</b> <sup>®</sup> an INFINITE brand Website: <a href="http://www.L-com.com">www.L-com.com</a> 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: VHF, UHF, 4G OMNI ANTENNA 4.5 DBI, VEHICLE NMO, BLACK SIZE: A CAGE CODE: 43321 DRAWN BY: HBAKKE ITEM NO.: LCANOM1081 REV: A

UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DIMENSIONS IN [ ] ARE IN MILLIMETERS.

TOLERANCES:  
 X = ±.2 [5]      FRACTIONS ± 1/32  
 .XX = ±.02 [0.5]      ANGLES ± 1°  
 .XXX = ±.005 [0.13]      CABLE LENGTH TOLERANCES:  
 >12 [305] = ±.1 [25] / -0  
 >12 [305] ≤ 60 [1524] = ±.2 [5] / -0  
 >60 [1524] ≤ 120 [3048] = ±.4 [102] / -0  
 >120 [3048] ≤ 300 [7620] = ±.6 [152] / -0  
 >300 [7620] = ±.8% / -0

ALL DIMENSIONS ARE FOR REFERENCE ONLY AND SUBJECT TO CHANGE WITHOUT NOTICE.

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