

4400 MHz to 5000 MHz V/H Dual Polarization 90 degree Sector,
14 dBi gain, Ruggedized, 2 X N Female Connectors



HG4450-14DP-090

Features

- Dual Polarity feed system in single enclosure
- Includes tilt and swivel mast mounting
- Two integral N-Female connectors
- UV-resistant radome for all-weather operation
- MIMO - Multiple-Input and Multiple-Output

Applications

- 4.4 GHz Military Bands
- 4.9 GHz Public Safety Bands
- 5G applications
- Wireless Internet Services

Description

The L-com HG4450-14DP-090 is a high performance sector antenna specifically designed for Military-Public safety applications. L-com's HG4450-14DP-090 has 14 dBi gain and 90 degree horizontal patterns. Measuring 12" x 5" this antenna is extremely compact and toughened to stand up to all environments. The HG4450-14DP-090 operates from 4400 to 5000 MHz which is ideal for Point to Multipoint coverage.

Rugged and Weatherproof: The 2-port flat panel antenna features a heavy-duty UV-resistant plastic radome for all-weather operation. The HG4450-14DP-090 from L-com has 90° Horizontal Beamwidth and 15° Vertical Beamwidth patterns with Vertical + Horizontal polarization and features 2 x Type N Female connectors.

The 2 x Type N Female connectorized HG4450-14DP-090 antenna from L-com has mounting bracket and hardware included which makes this antenna very easy to install. This high performance sector antenna just like our wide selection of superior quality RF parts, ship same day. Contact our knowledgeable and friendly technical support and sales staff for your answers on antennas or other L-com products.

Configuration

Design	Sector
Band Type	Single
Radiation Pattern	Directional
Polarization	Vertical/Horizontal
Connector Type	N Female
Number of Ports	2
Lightning Protection	DC Ground

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	4.4		5	GHz
Input VSWR			2:1	
Impedance		50		Ohms
Gain		14		dBi
Front to Back Ratio	20			dB
Cross-polar Discrimination	15			
Port to Port Isolation	25			dB

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[4400 MHz to 5000 MHz V/H Dual Polarization 90 degree Sector, 14 dBi gain, Ruggedized, 2 X N Female Connectors HG4450-14DP-090](#)

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HG4450-14DP-090

Input Power	50	Watts
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Mechanical Specifications

Radome Material	UV Resistant UPVC
Size	
Length	5.2 in [132.08 mm]
Width	3.6 in [91.44 mm]
Height	11.8 in [299.72 mm]
Mounting Mast Diameter	1.38 to 2.95 in [35.05 to 74.93 mm]
Weight	3.53 lbs [1.6 kg]

Environmental Specifications

Temperature	
Operating Range	-40 to +70 deg C
Wind Survivability	124.27 MPH [199.99 KPH]
Humidity	5 to 95

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

Plotted and Other Data

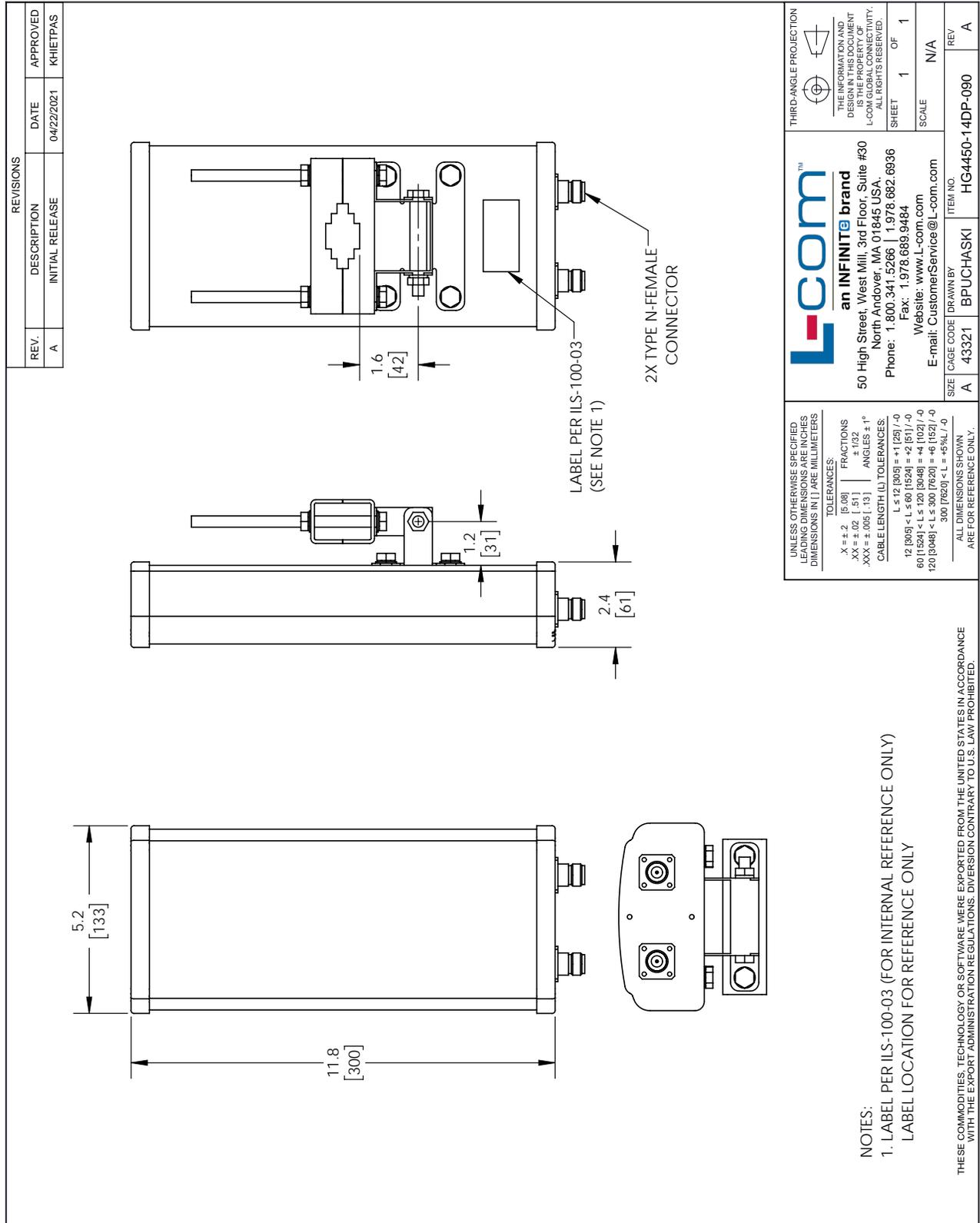
Notes:

4400 MHz to 5000 MHz V/H Dual Polarization 90 degree Sector, 14 dBi gain, Ruggedized, 2 X N Female Connectors 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



NOTES:
 1. LABEL PER ILS-100-03 (FOR INTERNAL REFERENCE ONLY)
 LABEL LOCATION FOR REFERENCE ONLY

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UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE IN INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5.08] | FRACTIONS ± 1/32
 .XX = ±.02 [.51] | ANGLES ± 1°
 .XXX = ±.005 [.13]

CABLE LENGTH (L) TOLERANCES:
 L ≤ 12 [305] < L ≤ 60 [1524] = ±1 [25] / -0
 60 [1524] < L ≤ 120 [3048] = ±4 [102] / -0
 120 [3048] < L ≤ 300 [7620] = ±6 [152] / -0
 300 [7620] < L = +5%L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE N/A

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SIZE A | CAGE CODE A | DRAWN BY BPUCHASKI | ITEM NO. HG4450-14DP-090

REV A