

617-960 MHz / 1710-2700 MHz / 3400-4200 MHz / 4900-6000 MHz Low PIM
Rated Dome V-pol Omni Antenna, Ceiling Mount, Type N Female Connector



HG65805CUPR-NF

Features

- Low Passive Intermodulation (PIM) <-153 dBc @ 2x20W
- Vertical Polarization
- Low return loss, stable performance
- Type N Female connector with 12 inch pigtail
- Covers all sub 6 GHz 5G frequency bands including 600 MHz and extended CBRS

Applications

- Indoor distribution of 5G, LTE, GSM/CDMA
- In-building public or private networks
- LPWAN, LoRA, LTE-M, NB-IoT, IoT, M2M applications
- DAS (Distributed Antenna Systems)

Description

The L-com HG65805CUPR-NF is a low PIM rated, high performance ceiling mount omnidirectional antenna specifically designed for in-building wireless networks such as DAS (Distributed Antenna Systems). L-com's HG65805CUPR-NF has 1.8 to 4.5 dBi gain and can be used to distribute Cellular and WiFi signals throughout a building or area. The HG65805CUPR-NF operates from 617 to 6000 MHz which is ideal for 5G, LTE, CDMA, LPWAN/IoT/M2M applications including LoRA, LTE-M, and NB-IOT. The Multi-Band design of the L-com HG65805CUPR-NF antenna eliminates the need to purchase different antennas for each frequency. This simplifies installations since the same antenna can be used for a wide array of in-building wireless applications where wide coverage is desired.

The HG65805CUPR-NF from L-com has omnidirectional patterns with vertical polarization and features Type N connectors. The key to providing the best performance in telecommunications is to ensure the components used are low PIM rated. This helps meet the increasing demand for higher data rates and the ability to provide streaming video for mobile devices. With a low PIM rating of <-150 dBc, the 617-6000 MHz HG65805CUPR-NF helps meet the most demanding PIM requirements for 5G and LTE/4G bands.

The Type N connectorized HG65805CUPR-NF antenna from L-com is designed specifically for in-building operation and is ideal for use in large open areas such as indoor courtyards, indoor sporting venues, convention centers and shopping malls. The included mounting bracket and hardware makes this antenna very easy to install. This 5G Cellular 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	Ceiling
Band Type	Wide
Radiation Pattern	Omni Directional
Polarization	vertical
Connector Type	N Female
Number of Ports	1

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	617		6000	MHz
Input VSWR			1.8:1	
Impedance		50		Ohms

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
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Gain	1.8		dBi
Gain		4.5	dBi
Input Power		50	Watts
Passive Intermodulation 3rd Order, 2 x 20 W	-153		

Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	0.617 to 0.698	0.698 to 0.96	1.71 to 2.7	3.4 to 4.2	4.9 to 6	GHz
Gain	1.8	2	3	4	4.5	dBi
Horizontal HPBW	360	360	360	360	360	Degrees
Vertical HPBW	90	80	35	30	28	Degrees
VSWR Max	1.8:1	1.8:1	1.5:1	1.7:1	1.7:1	

Mechanical Specifications

Radome Material	ABS
Size	
Length	8.86 in [225.04 mm]
Width	8.86 in [225.04 mm]
Height	5.91 in [150.11 mm]
Weight	0.99 lbs [449.06 g]

Environmental Specifications

Temperature	
Operating Range	-55 to +60 deg C
Humidity	< 95

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

Plotted and Other Data

Notes:

617-960 MHz / 1710-2700 MHz / 3400-4200 MHz / 4900-6000 MHz Low PIM Rated Dome V-pol Omni Antenna, Ceiling Mount, 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

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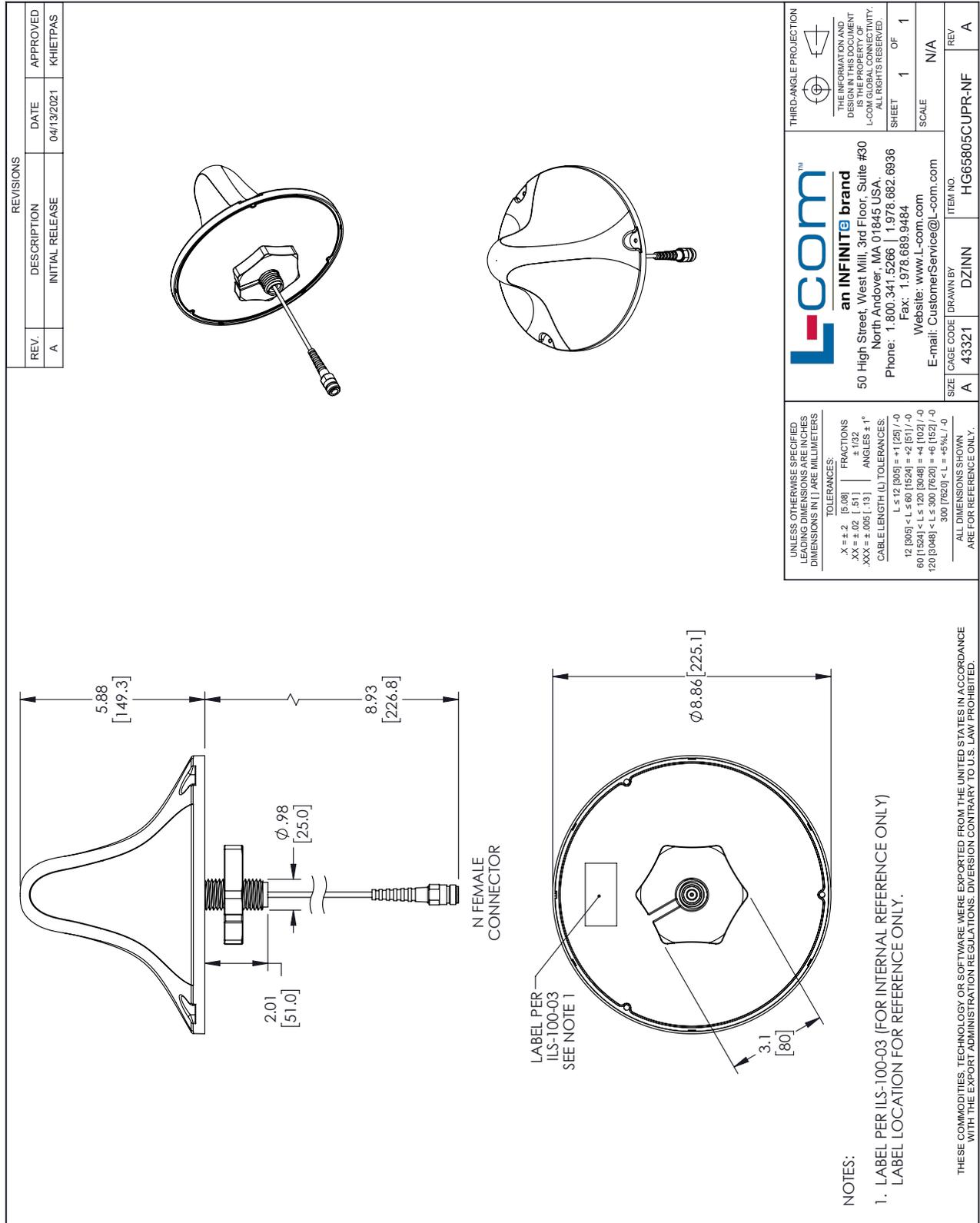
HG65805CUPR-NF

product line which includes antennas, amplifiers, passive, and active components.

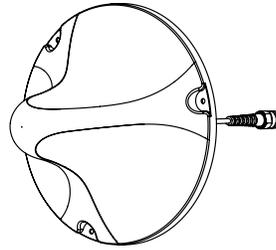
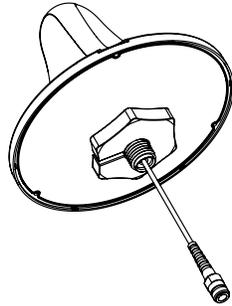
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L-com CAD Drawing



REVISIONS		
REV.	DESCRIPTION	DATE
A	INITIAL RELEASE	04/13/2021
		APPROVED
		KHIETPAS



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

TOLERANCES:

.X = ±.2 [5.08] FRACTIONS ± 1/32
 .XX = ±.02 [0.51] ± 1/32
 .XXX = ±.005 [0.13] ANGLES ± 1°

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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ITEM NO. HG65805CUPR-NF

SIZE A

CAGE CODE 43321

DRAWN BY DZINN

REV A

NOTES:

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

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