

## 4.9 - 6.0 GHz 6 dBi Omnidirectional Antenna - N-Female Connector



### HGV-4958-06U

#### Features

- High Performance in a compact design
- Durable UV-Stable fiberglass radome with vented end cap and drain holes in base
- All weather operation
- Integral N-Female connector
- Includes mast mounting kit

#### Applications

- 4.9/5.1/5.3/5.4/5.8/6.0 GHz Wireless LAN Systems
- IEEE 802.11a compatible
- Homeland Security and Public Safety band
- WiMAX and WiFi applications
- Multipoint and mobile applications

#### Description

The HyperLink brand model HGV-4958-06U is an economical yet high performance 6 dBi Omni-directional antenna designed for broadband frequency operation from 4.9 GHz to 6.0 GHz. Compact and lightweight, these antennas are ideally suited multipoint applications where wide coverage is desired.

The HGV-4958 Series antennas feature an integral N-Female bulkhead type connector that can mount through the wall of an equipment enclosure. Also included is a mast mounting kit which consists of a heavy-duty steel bracket and a pair of U-bolts. This kit allows for installations on masts up to 2.0" in diameter.

Constructed for all weather operation, the HGV-4958 Series antennas feature sealed collinear brass elements inside a durable UV-stable machine gray fiberglass radome. A vented end cap and drain holes in the base help prevent moisture build-up inside the antenna. These features allow the antenna to be mounted in up or down positions.

#### Configuration

Design	Omni
Application Band	WLAN Public Safety
Band Type	Wide
Radiation Pattern	Omni Directional
Polarization	Vertical
Connector Type	N Female
Number of Ports	1
Lightning Protection	DC Short

#### Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Input VSWR			1.8:1	
Impedance		50		Ohms
Gain		6		dBi
Input Power			100	Watts

#### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Range	4.9 to 6					GHz
Gain	6					dBi

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### Specifications by Band

Description	Band 1	Band 2	Band 3	Band 4	Band 5	Units
Horizontal HPBW	360					
Vertical HPBW	21					Degrees
Maximum Input Power	100					Watts

### Mechanical Specifications

Radome Material: Fiberglass

#### Size

Base Diameter: 1.27 in [32.26 mm]  
 Radome Diameter: 0.75 in [19.05 mm]  
 Length: 6.7 in [170.18 mm]  
 Width: 0.75 in [19.05 mm]  
 Height: 0.75 in [19.05 mm]  
 Mounting Mast Diameter: 2 in [50.80 mm]  
 Weight: 1.21 lbs [548.85 g]

Mechanical Specification Notes:  
 Radome material is UV resistant

### Environmental Specifications

#### Temperature

Operating Range: -40 to +85 deg C

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

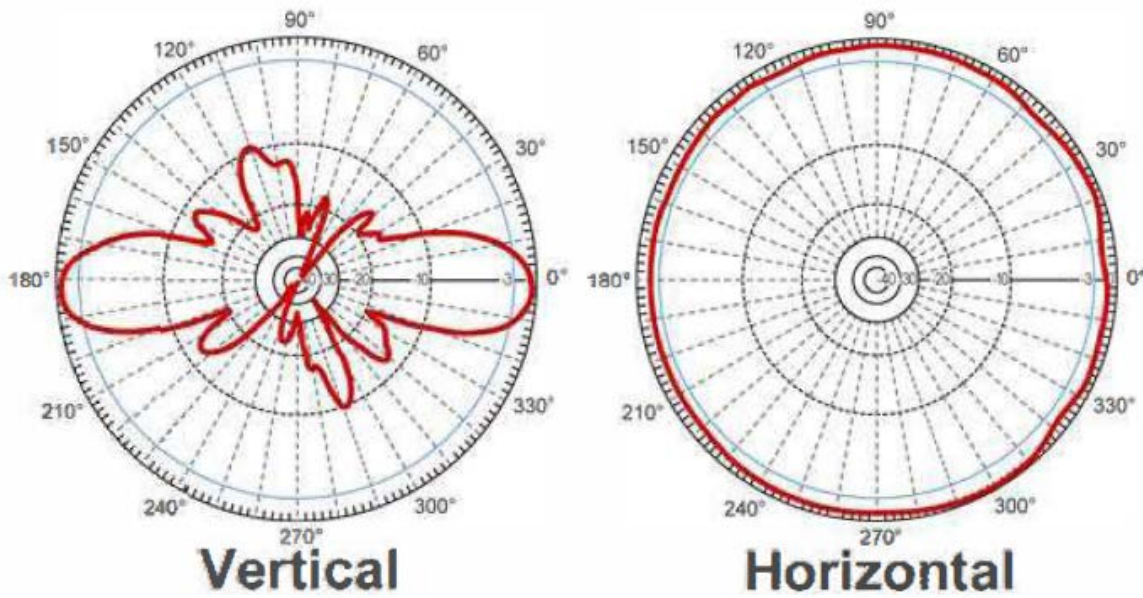
### Plotted and Other Data

Notes:

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**HGV-4958-06U**

Typical Radiation Pattern



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#### 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.

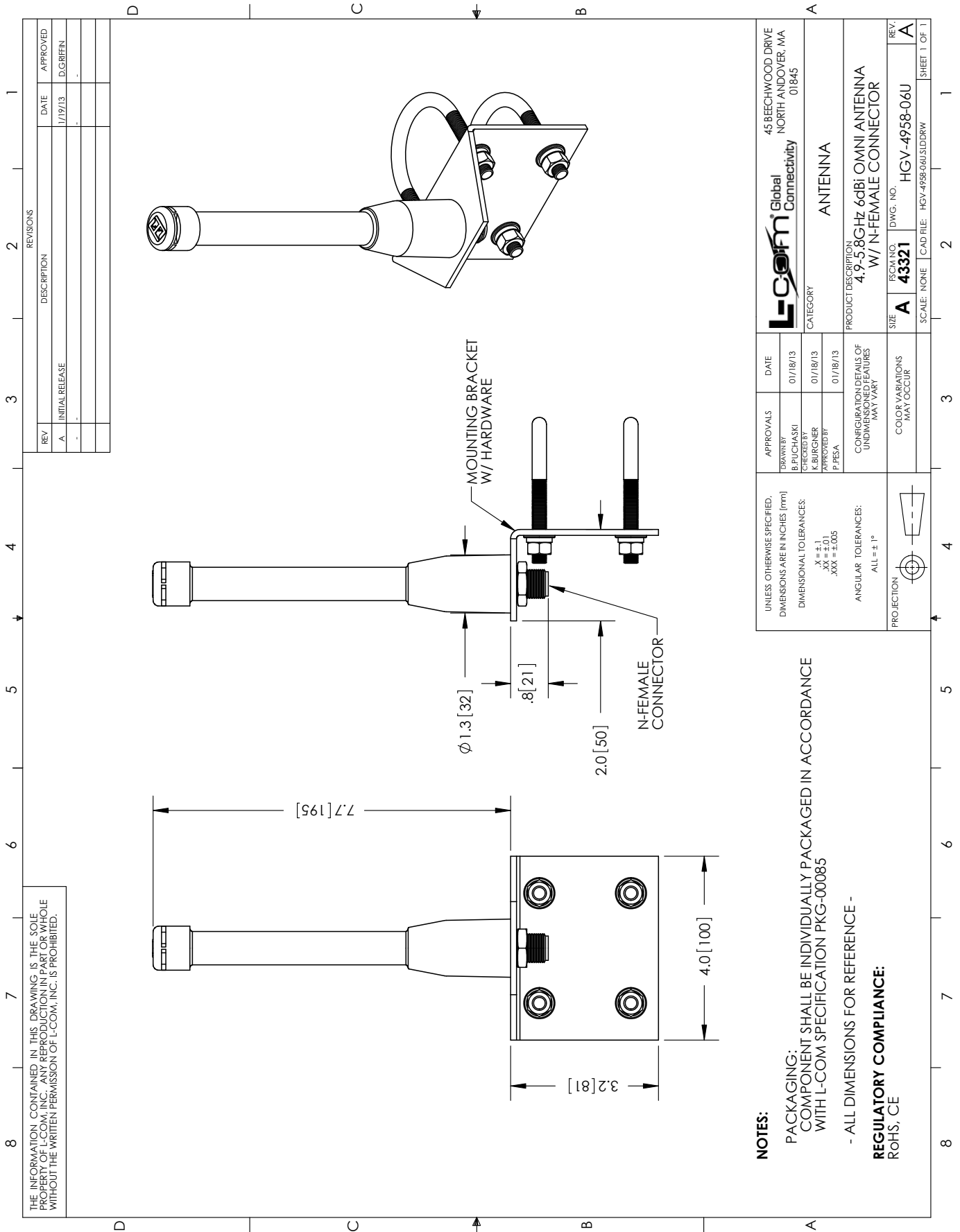
4.9 - 6.0 GHz 6 dBi Omnidirectional Antenna - N-Female Connector from L-com has same day shipment for domestic and International orders. Our portfolio includes coaxial cable assemblies, connectors, adapters and custom products as well as lightning and surge protectors, NEMA rated enclosures, and an RF product line which includes antennas, amplifiers, passive, and active components.

URL: <https://www.l-com.com/wireless-antenna-49-58-ghz-6-dbi-omnidirectional-antenna-n-female-connector-p.aspx>

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# HGV-4958-06U CAD Drawing

4.9 - 6.0 GHz 6 dBi Omnidirectional Antenna - N-Female Connector



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**NOTES:**

PACKAGING:  
COMPONENT SHALL BE INDIVIDUALLY PACKAGED IN ACCORDANCE WITH L-COM SPECIFICATION PKG-00085

- ALL DIMENSIONS FOR REFERENCE -

**REGULATORY COMPLIANCE:**

ROHS, CE

REV	INITIAL RELEASE	DATE	APPROVED
A	-	1/19/13	D.GRIFFIN

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES [mm]	APPROVALS	DATE	 Global Connectivity 45 BEECHWOOD DRIVE NORTH ANDOVER, MA 01845
DIMENSIONAL TOLERANCES: X = ±.1 XX = ±.01 XXX = ±.005	DRAWN BY B. PUCHASKI	01/18/13	
ANGULAR TOLERANCES: ALL = ± 1°	CHECKED BY K. BURCHNER	01/18/13	
PROJECTION	APPROVED BY P. PESA	01/18/13	ANTENNA
	CONFIGURATION/DETAILS OF UNDIMENSIONED FEATURES MAY VARY		
	PRODUCT DESCRIPTION 4.9-5.8GHz 6dBi OMNI ANTENNA W/ N-FEMALE CONNECTOR		
	SIZE A	FCOM NO. 43321	DWG. NO. HGV-4958-06U
	SCALE: NONE		REV. A
	CAD FILE: HGV-4958-06U.SLDRAW		