

L1/L5 GNSS Antenna 1166-1218/1559-1606 MHz, Type N Female, 43 dBi



HG-GPSL1L5-40

Features

- Dual Band L1/L5
- Multiple GNSS Systems Supported
- High 40 dB Gain
- Low 2 dB Noise Figure
- 1 dB Axial Ratio
- IP67 Rated
- External Grounding Lug

Applications

- Global: GPS (L1 / L5), Galileo (E1 / E5), GLONASS (G1 / G3)
- Local: BeiDou (B1 / B2), IRNSS (L5)
- Timing and Positioning Phase Synchronization
- 1166 - 1218 MHz / 1559 - 1606 MHz
- High Accuracy Mission Critical Global Positioning
- Military and Security

Description

The L-Com HG-GPSL1L5-40 is a Dual Band (L1 / L5) active GPS timing antenna that filters and amplifies global positioning system signals received from GNSS (L1 / L5), Galileo (E1 / E5), GLONASS (G1 / G3), BeiDou (B1 / B2), QZSS (L1/L5), and IRNSS (L5) satellite constellations. The antenna is designed with an integrated 40 dB LNA and operates within 1166 MHz to 1218 MHz and 1559 MHz to 1606 MHz with high out-of-band rejection.

The HG-GPSL1L5-40 recovers timing and positioning data for timing reference and phase synchronization. The 1 dB axial ratio increases position accuracy in densely populated urban areas. High 43 dBic gain and low 2 dB noise figure allows for longer commercial grade cable, making installation versatile and economical.

This Type N Female HG-GPSL1L5-40 from L-Com is compatible with several existing mounting brackets. The dual band (L1 / L5) active antenna is a fully ruggedized unit and IP67 Rated. The antenna is DC fed through the RF cable and is externally grounded. This GPS 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	GPS/GLNSS
Application Band	L1/L5
Band Type	Multi
Radiation Pattern	Omni Directional
Polarization	RHCP
DC Injection	Coaxial feed cable center conductor
Connector Type	N Female
Housing Material and Plating	White

Electrical Specifications

Description	Minimum	Typical	Maximum	Units
Frequency Range	1,166		1,606	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:
[L1/L5 GNSS Antenna 1166-1218/1559-1606 MHz, Type N Female, 43 dBi HG-GPSL1L5-40](#)

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Gain		43	dBi
Gain Variation		±3	dBi
Noise Figure		2	dB
Out Of Band Rejection	40	60	dB
Operating DC Voltage	3.5	12	Volts
Current		30	mA
Axial Ratio		1	dB

Mechanical Specifications

Housing Plating/Color	White
Size	
Length	3.937 in [100 mm]
Height	3.03 in [76.96 mm]
Weight	0.9 lbs [408.23 g]

Environmental Specifications

Humidity	95%
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Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

L1/L5 GNSS Antenna 1166-1218/1559-1606 MHz, Type N Female, 43 dBi 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.

L-com CAD Drawing

