L1L2-2GA & L1L2-2GP

L1/L2 Active Antenna & L1/L2 Passive Antenna

**KEY FEATURES**

» Designed for military and civilian applications
» L1/L2 Dual Band
» Waterproof
» Excellent LNA gain
» Multiple Connector Options
» Multiple Mounting Options
» Multiple Color Options
» Small Form Factor
» Custom Gain Available
» High Out-of-Band Rejection
» BIT Technology (Passive)*

*Automated Built In Test (BIT)

The L1/L2 Passive Antenna includes BIT. The antenna can monitor the DC voltage on the center conductor to determine the status of the cable and antenna connection.

**DURABLE, HI PRECISION, BUILT TO LAST**

The L1/L2 Active and Passive GPS antennas from GPS Source are designed for long term reliability. The antennas are small and lightweight, with exceptional protection against the elements. Both are suitable for manpack, ground, marine, aircraft, and space applications, multiple GPS devices and operating platforms.

Designed to support the Warfighter, the portable, yet precise GPS L1/L2 antennas are built for tough applications. Their radome is made of high-grade polymer, with a design that prevents ice/snow buildup, protects antenna from UV, rain and lightning strikes, chemical and jet fuels.

**DESIGNED TO MILITARY STANDARDS**

» Mechanical Vibration: 810G, Mtd 514.6
» Functional Shock: 810G, Mtd 516.6
» Crash Hazard: 810G, Mtd 516.6
» Temp & Altitude: 810D, Mtd 520.0, Proc. III
» Humidity: 810D, Mtd 507.2, Proc. III
» Fungus: 810D, Mtd 508.3

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L1/L2 Mil Spec GPS Antenna

Operating Frequencies
- L1 (1575.5MHz) typical
- L2 (1227.60MHz)

Bandwidth +/- 10MHz

Polarization
- RHCP

Element Gain (Active) at 4 ft G.P.
- L1 3dBiC min.
- L2 3dBiC min.

Element Gain (Passive) at 4 ft G.P.
- L1 3dBiC typical
- L2 3dBiC typical

LNA Gain (Active) Output = 50Ω
- L1: 33dB typical
- L2: 33dB typical

Axial Ratio (Active)
- 2dB max

Axial Ratio (Passive)
- 2dB max

Out Impedence
- 50Ω

SWR
- 2.0:1 max

Temperature
- -54°C to 71°C

Altitude
- 50,000 ft

Active Only
- LNA DC Power
- 5 - 16 VDC (35 mA max)

Noise Figure (Voltage=5V)
- 3dB max

LNA OP1dB Compression
- 13dBm typical

LNA OIP3
- 25dBm typical

Rejection @ +/- 50MHz
- >12dB

Rejection @ +/- 100MHz
- >42dB

L1/L2 Mil Spec GPS Antenna

Physical Specifications

Size
- Diameter: 2.6"
- Height: .944"

Weight
- 6.4 oz

Base Finish
- Iridite per Mil-C-5441

Connector
- SMA(m,f), TNC(f), or N(m,f)

ABOUT US

GPS Source is an original equipment manufacturer (OEM) that designs, manufactures and sells high-precision GNSS/GPS technology for both Commercial & Defense Industries.

www.gpssource.com