

KEY FEATURES

Comprehensive GNSS support, including GPS Modernization signals, GLONASS, BeiDou and Galileo

Rugged Package ideal for vehicle applications

5/8" x 11 Mounting

Sub-centimeter phase center repeatability



TRIMBLE LV59 GNSS ANTENNA

HIGH PERFORMANCE GNSS SUPPORT

The Trimble LV59 GNSS Antenna has been designed to support centimeter level accuracy on land and marine applications. The rugged 5/8" x 11 female threaded mount and all aluminum base allows the antenna to be used in the most rugged of environments.

COMPREHENSIVE GNSS SUPPORT

The Trimble LV59 GNSS antenna offers support for present and future GNSS signals, including GPS L5, GLONASS, BeiDou and Galileo. This ensures that the antenna will operate with your present and most likely future GNSS receivers.

ROBUST, LOW-MULTIPATH GPS ANTENNA

The antenna resists unwanted signal interference or multipath, which can cause inaccurate measurements. Multipath is caused by signals being reflected from surfaces such as the ground, surrounding trees, or buildings.

FLEXIBILITY

The antenna is a survey rover type of design. This allows the use of standard survey accessories for either pole or vehicle mounting. Alternatively create your own 5/8" x 11 bolt mounting. This is an ideal design for customers building systems that require easy removal of the antenna. The TNC connector is located on the underside of the unit ensuring the attached cable is also protected from the environment.

TRIMBLE LV59 GNSS ANTENNA

PERFORMANCE

- Broad GNSS Frequency Tracking Band Including:
 - GPS: L1, L2, L5
 - GLONASS: L1, L2, L3
 - BeiDou: B1, B2
 - Galileo: E1, E2, E5,
 - SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, and OmniStar
- Quality signal tracking
- TNC female signal connector
- Small cross-sectional area to reduce wind loading
- Low voltage, low power consumption
- Integral low noise amplifier
- 5/8" x 11 UNC female threaded aluminum mounting point
- Powered by GNSS receiver via coaxial cable
- Rugged UV resistant radome and aluminum base designed for machine environments
- High gain for reliable tracking in difficult environments

ELECTRICAL

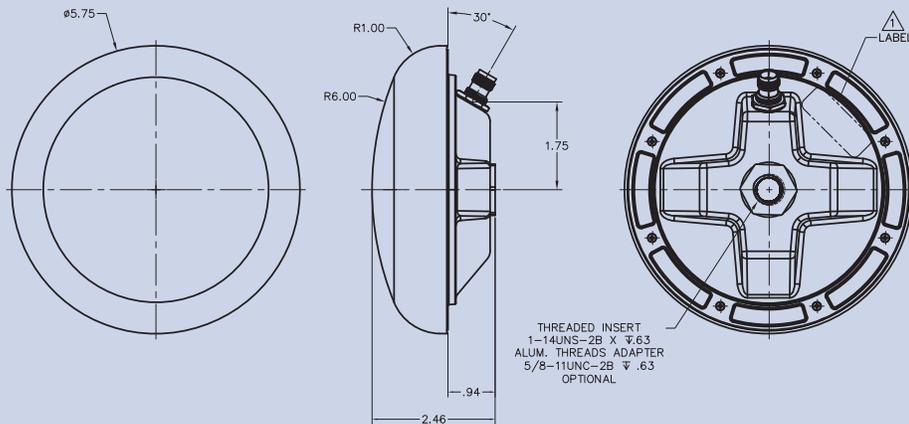
Signal gain 39 dB
 Voltage 4.2 V DC to 15 V DC
 Polarization Right Hand Circular
 Axial Ratio 3 dB Max @ boresight
 Amplifier Noise Figure : 2.6 dBMax
 Impedance : 50 Ohms
 VSWR : ≤ 2.0:1

HARDWARE

Dimensions 14.62 cm diameter x 3.89 cm height
 (5.575 in diameter x 1.53 in height)
 Weight 0.48 Kg (1.06 lb)
 Operating Temperature -40 °C to +85 °C (-40 °F to +185 °F)
 Altitude ≤16,764 m (55,000 ft)
 Finish UV resistant white radome
 with aluminum base
 Compliance ROHS

ENVIRONMENTAL QUALIFICATIONS

CONDITIONS	DO-160D SECTION	STRING CATEGORY	DESCRIPTION
Temperature Variation	5	A	-55 °C to +85 °C, 10°/min, 2 cycles
Humidity	-	Method 507.4	MIL-STD-810-F
Shock		Method 516.5	MIL-STD-818-F Procedure II
Vibration		Method 514.5C-3	MIL-STD-810-F, Section 514.5 CVII



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AMERICAS
TRIMBLE NAVIGATION LIMITED
Integrated Technologies
 510 DeGuigne Drive
 Sunnyvale, CA 94085 USA
 +1-408-481-8070 Phone
 +1-408-481-8984 Fax
 Email: americasales@trimble.com

EUROPE & MIDDLE EAST
TRIMBLE GERMANY GmbH
Integrated Technologies
 Am Prime Parc 11
 65479 Raunheim, Germany
 +49 (6142) 177-2135 Phone
 +49 (6142) 177-2136 Fax
 Email: emeasales-intech@trimble.com

CHINA
TRIMBLE NAVIGATION LIMITED
Integrated Technologies
 311 Fute (M) Road, 3F
 Wai Gaoqiao Free Trade Zone
 Pudong, Shanghai 200131 China
 Email: chinasales-intech@trimble.com

ASIA - PACIFIC
TRIMBLE NAVIGATION LIMITED
Integrated Technologies
 Email: asiasales-intech@trimble.com

RUSSIA
TRIMBLE NAVIGATION LIMITED
Integrated Technologies
 +49 (6142) 177-2135 Phone
 Email: rusasales-intech@trimble.com