



Trimble LV59

HIGH ACCURACY FOR LAND AND MARINE APPLICATIONS

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.

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

TECHNICAL SPECIFICATIONS

- Broad GNSS Frequency Tracking Band Including:
 - GPS: L1, L2, L5
 - GLONASS: L1, L2, L3
 - Galileo: E1, E2, E5
 - BeiDou B1, B2
 - SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, and OmniStar
- Quality signal tracking
- TNCF 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
- High gain for reliable tracking in difficult environments

PHYSICAL AND ELECTRICAL SPECIFICATIONS

Dimensions 14.62 cm diameter x 3.89 cm height
 . . . (5.575 in diameter x 1.53 in height)

Weight 0.48 Kg (0.67 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

Signal gain 39 dB

Voltage 4.2 V DC to 15 V DC

Polarization Right Hand Circular

Axial Ratio 3 dB Max @ boresight

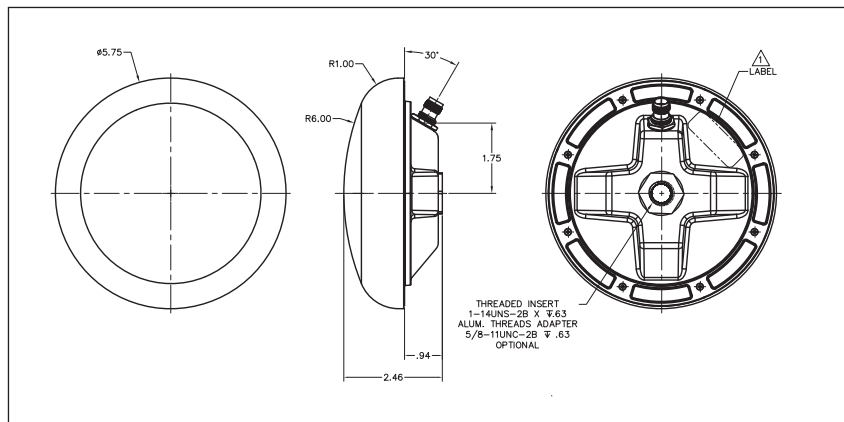
Amplifier Noise Figure : 2.6 dBMax
 Impedance : 50 Ohms
 VSWR : # 2.0:1

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	-	516.5C.3	MIL-STD-810-F, Section 514.5 CVII

PART NUMBER

C03167



Specifications subject to change without notice.

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