



Trimble AV37 Antenna

HIGH PERFORMANCE ANTENNA FOR AIRBORNE MAPPING AND SURVEYING APPLICATIONS

The Trimble AV37 GNSS antenna is designed to support centimeter-level accuracy in a lightweight, aerodynamic housing. The antenna is FAA certified and designed with ARINC 743 footprint making it ideal for aerial mapping applications.

COMPREHENSIVE GNSS SUPPORT

The Trimble AV37 antenna offers full support for current and near-future GNSS signals including GPS, GLONASS, Galileo, BeiDou, QZSS, OmniSTAR, Trimble RTX and SBAS.

ROBUST, LOW-MULTIPATH GPS ANTENNA

Mapping and surveying from the air using GNSS requires survey grade antenna technology in a compact and reliable form factor. The Trimble AV37 GNSS aviation antenna achieves this without compromising performance.

Key Features

- ▶ Comprehensive GNSS support including GPS modernization signals, GLONASS, BeiDou and Galileo
- ▶ FAA Certified
- ▶ Low-profile design and ARINC 743 footprint
- ▶ SBAS, L-Band support



Trimble AV37 GNSS Antenna

TECHNICAL SPECIFICATIONS

- Comprehensive GNSS Tracking:
 - GPS: L1, L2
 - GLONASS: L1, L2
 - Galileo: E1
 - BeiDou: B1
 - SBAS: WAAS, EGNOS, GAGAN, and MSAS
 - MSS: OmniSTAR, Trimble RTX
- Quality signal tracking
- TNC female signal connector
- Small cross-sectional area to reduce aerodynamic drag
- Integral low noise amplifier
- Powered by GNSS receiver via coaxial cable
- High gain for reliable tracking in difficult environments
- FAA certificate supplied with each antenna

PART NUMBERS

- 82745 (US) Trimble AV37 Antenna
- 82745-10 Trimble AV37 Antenna (Non-US Orders)

PHYSICAL AND ELECTRICAL SPECIFICATIONS

Dimensions11.9 cm length, 7.6 cm width, 2.3 cm height
 4.7" length, 3.0" width, 0.92" height

Weight 0.283 kg (0.625 lbs)

Operating Temperature ... -55 °C to +85 °C (-67 °F to +185 °F)

Altitude ≤ 16,764 m (55,000 ft)

Finish Polyurethane enamel, fluid resistant

Compliance ROHS

Designed to DO-160E, ARINC 743 Footprint, RTCA DO-210D

MTBF Airborne, per MIL-HDBK-217, at an ambient temperature of +70°C
 122,752 hours for Inhabited Cargo (AIC) environment
 70,501 hours for Uninhabited Cargo (AUC) environment

Frequencies 1570 +/- 45 MHz
 1238 +/- 21.5 MHz

Signal gain 43 dB

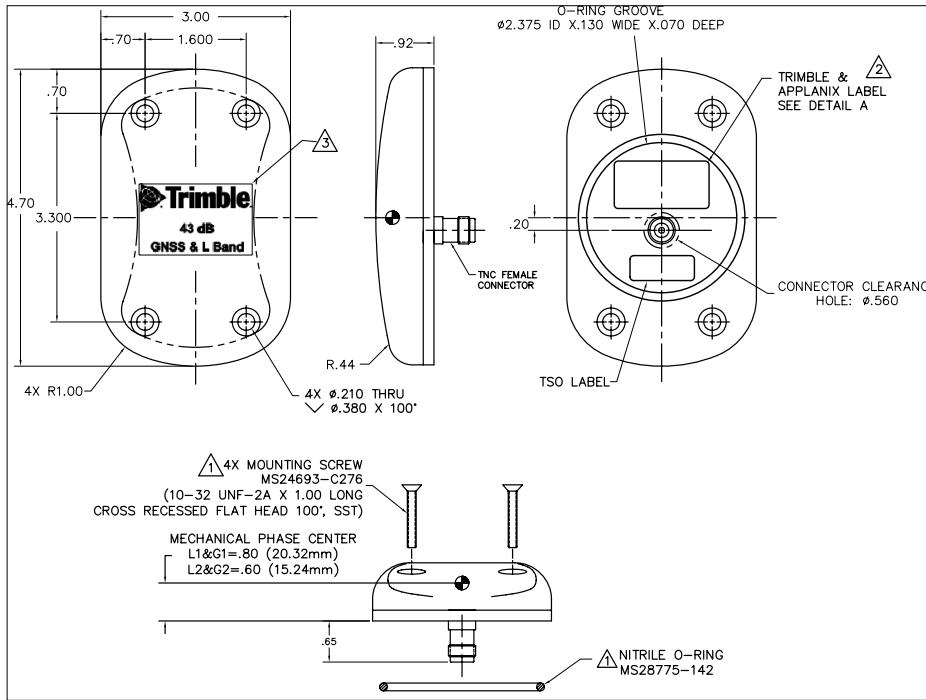
Voltage 5 V DC to 15 V DC

Polarization Right Hand Circular

Axial Ratio 3 dB Max @ boresight

Amplifier Noise Figure 2.5 dBMax

Impedance 50 Ohms
 VSWR : ≤ 1.5



Specifications subject to change without notice.

Contact your local dealer today

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