



# 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

Dimensions ..... 11.9 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

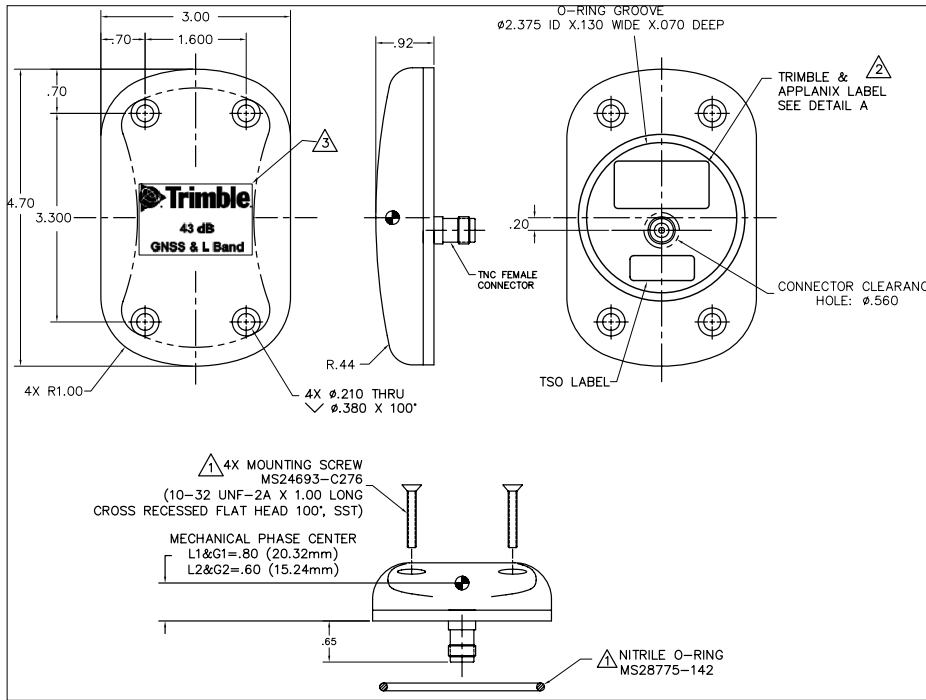
Voltage ..... 5 V DC to 15 V DC

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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