DATASHEET

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



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ГЕОПРИБОР

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TECHNICAL SPECIFICATIONS

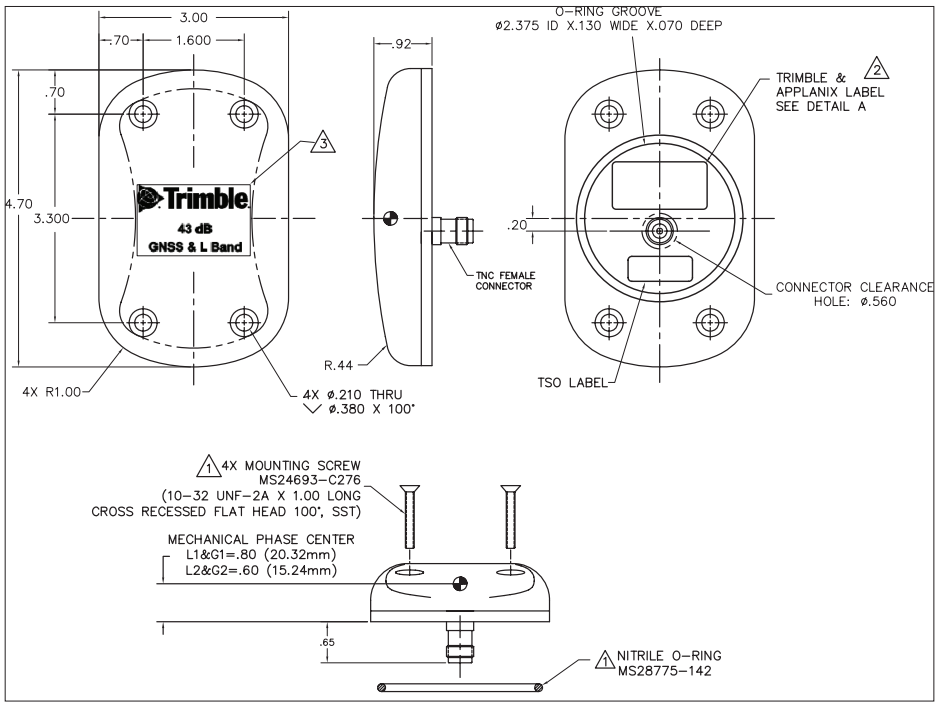
- Comprehensive GNSS Tracking:
  - GPS: L1, L2
  - GLONASS: L1, L2
  - Galileo: E1
  - BeiDou: B1
  - SBAS: WAAS, EGNOS, GAGAN, and MSAS
  - MSS: OmniSTAR, Trimble RTX
- Quality signal tracking
- TNC female signal connector
- Small cross-sectional area to reduce aerodynamic drag
- Integral low noise 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.

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