



Trimble AV37

HIGH PERFORMANCE FOR AIRBORNE, MAPPING AND SURVEYING

The Trimble AV37 GNSS Aviation Antenna has been designed to support centimeter level accuracy for airborne applications and track SBAS signals all in one compact design. It is fully certified by the FAA for aircraft installations.

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

- ▶ Full support for L1/L2 GPS + GLONASS, E1 Galileo and B1 BeiDou
- ▶ Support for L-Band/OmniStar
- ▶ Low-profile Fuselage Mounting
- ▶ Sub-centimeter phase center repeatability
- ▶ Fully certified for airborne installations



TRIMBLE AV37 GNSS antenna

TECHNICAL SPECIFICATIONS

- L1/L2 GNSS + L-Band Frequency Tracking:
 - GPS: L1, L2
 - GLONASS: L1, L2
 - Galileo: E1
 - BeiDou: B1
 - 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
- Powered by GNSS receiver via coaxial cable
- High gain for reliable tracking in difficult environments
- FAA airworthiness certificate supplied with each antenna

PART NUMBERS

82745 (US)
82745-10 (Non-US)

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

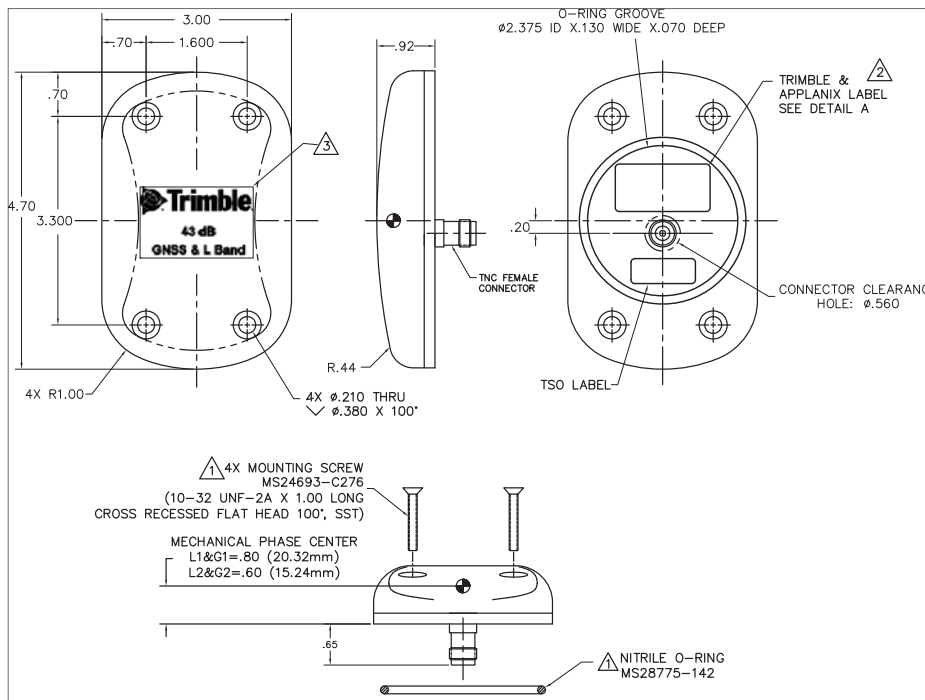
Signal gain 43 dB

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



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