

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

HIGH PERFORMANCE GNSS SUPPORT 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, CERTIFIED GNSS AVIATION ANTENNA

Mapping and surveying from the air using GNSS requires survey grade antenna technology in a compact and reliable form factor. The Trimble AV37GNSS Aviation antenna achieves this without compromising performance.



TRIMBLE AV37 GNSS ANTENNA

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PERFORMANCE

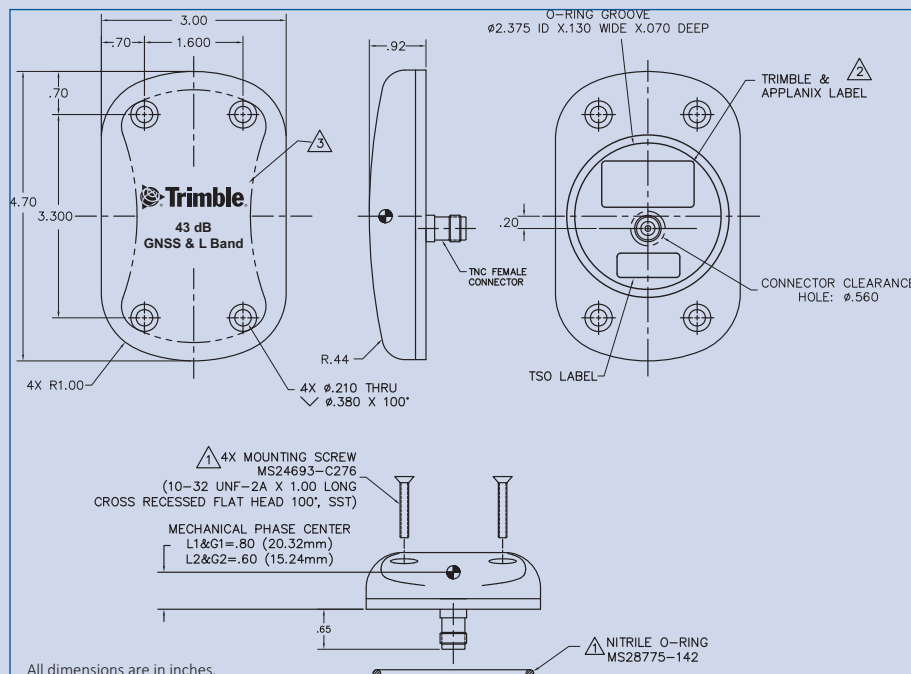
- L1/L2 GNSS + L-Band Frequency Tracking:
 - GPS: L1, L2
 - GLONASS: L1, L2
 - Galileo: E1
 - BeiDou: B1
 - SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, and OmniStar
- Quality signal tracking
- TNC female signal connector
- Small cross-sectional area to reduce wind loading
- Low voltage, low power consumption
- 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

ELECTRICAL

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

HARDWARE

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 (0.62lb)
Operating Temperature -55 °C to +85 °C (-67 °F to +185 °F)
Altitude $\leq 16,764$ 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



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