Trimble AV39

HIGH PERFORMANCE FOR AIRBORNE AND GROUND APPLICATIONS

The Trimble AV39 GNSS Antenna has been designed to support centimeter level accuracy for airborne and ground vehicle applications and in one compact design. It is fully certified by the FAA for aircraft installations.

ROBUST, LOW-MULTIPATH GPS ANTENNA

The antenna resists unwanted signal interference or multipath, which can cause inaccurate measurements. Advanced filtering protects your GNSS measurements from unwanted Iridium interference.

COMPREHENSIVE GNSS SUPPORT

The Trimble AV39 GNSS antenna offers support for present and future GNSS signals, including GPS L5, GLONASS, BeiDou and Galileo. This ensures that the antenna will operate with your present and most likely future GNSS receivers.

FLEXIBILITY

The antenna is an aviation type of design. The bulkhead mounting ensures only the rugged radome is exposed to the elements. This is an ideal design for customers building rugged systems. The antenna can be mounted flush with the airframe or vehicle surface. The TNC connector is located on the underside of the unit ensuring the attached cable is also protected from the environment.

Key Features

- Full support for
  - GPS: L1, L2, L5
  - GLONASS: L1, L2, L3
  - Galileo: E1, E2, E5
  - BeiDou B1, B2
- Support for L-Band/OmniStar/RTX
- Low-profile Fuselage Mounting
- Sub-centimeter phase center repeatability
- Fully certified for airborne installations
- ARINC 743 Footprint
- Iridium interference protection

TRIMBLE AV39 GNSS antenna

TECHNICAL SPECIFICATIONS

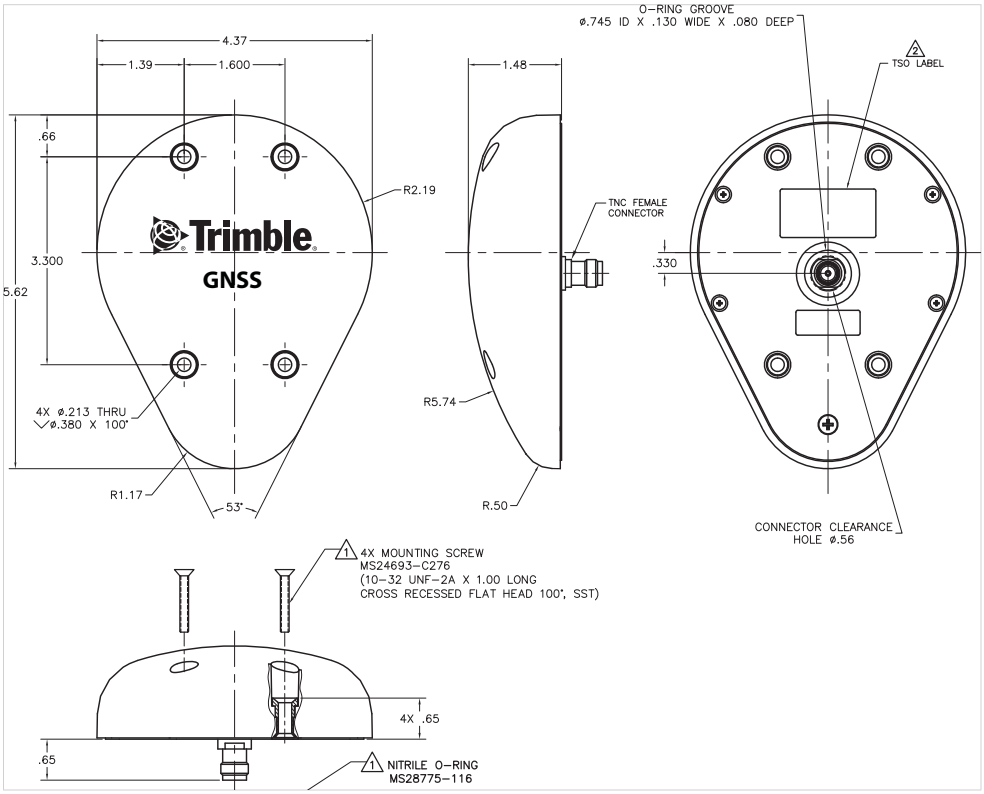
- Broad GNSS Frequency Tracking Band Including:
  - GPS: L1, L2, L5
  - GLONASS: L1, L2, L3
  - Galileo: E1, E2, E5
  - BeiDou B1, B2
  - SBAS: WAAS, EGNOS, QZSS, Gagan, MSAS, and OmniStar/RTX
- Quality signal tracking
- TNCF female signal connector
- Small cross-sectional area to reduce aerodynamic drag
- 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
- Iridium interference protection

PHYSICAL AND ELECTRICAL SPECIFICATIONS

Dimensions . . . . 14.27 cm length, 11.10 cm width, 3.76 cm height
5.62" length, 4.37" width, 1.48" height
Weight . . . . . 0.386 kg (0.85 lbs)
Operating Temperature. . . . –55 °C to +70 °C (–67 °F to +158 °F)
Altitude . . . . . ≤16,764 m (55,000 ft)
Finish . . . . . UV Resistant white radome with aluminum base
Designed to DO-160E
ARINC 743 Footprint
RTCA DO-210D:
Env Cat . . . . . F2-AB[BD][S(CLMY)U(FF1)]HSFSFSZMZZ[RYR]
H[MJ44][2A]CA
TSO . . . . . Incomplete TSO-C132
Frequencies . . . . . 1525-1610 MHz
. . . . . 1160-1252 MHz
Signal gain . . . . . 38 dB
Voltage. . . . . 4.2 to 15.0 VDC
Polarization . . . . . Right Hand Circular
Axial Ratio. . . . . 3 dB Max @ boresight
Amplifier . . . . . Noise Figure : 3.5 dBMax
Impedance : 50 Ohms
VSWR : ≤ 2.0:1

PART NUMBERS

105728 (US)
105728-10 (Non-US)



Specifications subject to change without notice.

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