

ANTENNAS | GPS-0001

GPS-1

GPS/GLONASS L1&L2 ACTIVE ANTENNA























- **GPS/Glonass technology**
- Covers GPS L1 & L2 frequencies

Product Overview

This GPS / Glonass antenna is a high performance active antenna module operating down to -40 degrees. It covers the GPS L1 and L2 frequencies at 1250MHz and 1600MHz respectively, as well as the Glonass frequency of 1602MHz. This antenna is provided with a 0.5m cable terminated in a SMA(m) connector.

Features

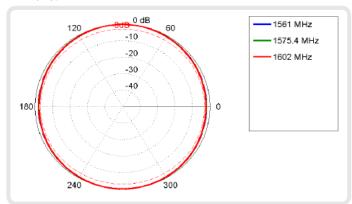
- Water resistant enclosure
- Lightweight
- Ground plane independent
- Easy installation
- Robust
- Foam Cell Filled

Application areas

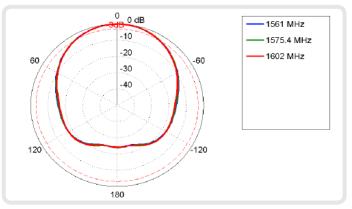
- Urban and rural areas
- Vehicular mounting applications
- Location based
- Remote monitoring
- Timing for base stations and power utility sub stations
- Vehicle fleet tracking
- M2M / IoT
- **Telematics**
- Military Applications



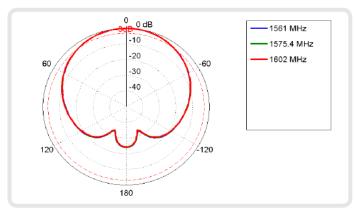
XY Plane:



XZ Plane:



YZ Plane:



Voltage Standing Wave Ratio (VSWR)

VSWR is a measure of how efficiently radio-frequency power is transmitted from a power source, through a transmission line, into a load. In an ideal system, 100% of the energy is transmitted which corresponds to a VSWR of 1:1 GPS-0001 delivers superior performance with a VSWR of 1.5:1 or better.

Electrical Specifications

1565-1610 MHz Frequency Range L1: 1217-1250 MHz Frequency Range L2: Gain (max): 21±2dBi VSWR: < 1.5:1 2.7-3.3 V DC Voltage: DC Current: 5-15mA Noise Figure: ≤1.5 dB Nominal Impedance: 50 Ω Polarisation: RHCP

Cable: 0.5m 1.13 Coaxial cable Connector: SMA (m) Voltage: 2.7-3.3 V Max. Power-W: 50W

12dB Min f0+50MHz 16dBi Min f0-50MHz

Environmental Specifications

Filter Out Band Attenuation:

Wind Survival: 160 km/h Temperature Range (Operating): -40°C to +80°C **Environmental Conditions:** Outdoor Operatina Relative Humidity: Up to 98% Storage Humidity: 10% to 95% - non-condensing Storage Temperature: -45°C to +85°C

Mechanical Specifications

Product Dimensions (L x W x D): 25 mm X 25 mm x 6.7 mm Packaged Dimensions: TBD Weight: 0.164kg Packaged Weight: 0.167kg Radome Material: ABS (Halogen Free) Radome Colour: Pantone - Black RAL - Black

Product Box Contents

A-GPS-0001-V1 Antenna:

Ordering Information

Commercial name: GPS-1 Order Product Code: A-GPS-0001-V1 EAN number: 0707273469823

Additional Accessories Available

Extension Cables: None

For more detailed information and availability in your region, visit our web site: www.poynting.tech

Certification Approvals and Standards

Flammability rating: UL 94-V0 EN 13823 Water Ingress Protection Ratio/Standard: IP 67 (NEMA 6) Impact resistance: IK 08

Salt Spray: MIL-STD 810F/ASTM B117 Product Safety: Complies with UL, CE, EN,

CSA and IEC standards









Contact Poynting

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