

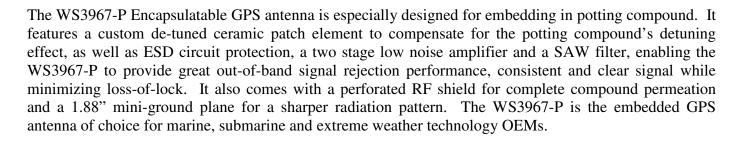
Wi-Sys Communications Inc. WS3967-P – Encapsulatable GPS Antenna for Marine & Submarine Applications.

Applications:

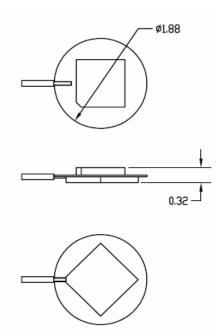
- Marine & Submarine Vessel Telematics
- Wildlife & Marine Animal Tracking
- GPS enabled Buoys and Un-manned Marine Vessels

a time and place... for everything

- Deep Sea and Off-shore Industry
- Navy Radios and Systems
- Weather Monitoring Systems







Features:

- Ideal for potted applications
- Detuned ceramic patch element
- Perforated RF Can
- ESD circuit protection
- Two stage LNA
- SAW filter
- 2.7 to 5 V operation
- Optional cable types and lengths available
- Wide range of connector types available
- Low price



Wi-Sys Communications

WS3967-P Encapsulatable GPS Antenna

Designed for easy encapsulation in potting compound, the WS3967-P antenna integrates a two-stage low-noise amplifier to ensure a reliable and clear signal for the GPS receiver even in most difficult conditions, as well as a SAW filter for even greater performance for telematics applications where out-of-band signal rejection is required.

The Wi-Sys Embedded Antenna Family

WS1357: 13 x 13mm, High Gain Embedded GPS Antenna

WS1857: 18 x 18mm, High Gain Embedded GPS Antenna

WS3930-ULD: Cellular Covert Antenna

WS3940-ULD: Active GPS + Cellular Combined Covert Antenna

WS3950/WS3960: High Gain, Low Noise Embedded Antenna

WS3954/WS3964: Low Current Embedded GPS Antenna

WS3957/WS3967: Low Price Filtered Embedded GPS Antenna

WS4051/WS3961*: High Gain, Low Noise Embedded Antenna with Built-in MCX Connector

WS4055/WS4065*: Low Current Embedded GPS Antenna with Built-in MCX Connector

WS4057/WS4067: Low Price Filtered Embedded GPS Antenna with Built-in MCX Connector

*High Rejection Pre-filter option available

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Technical Specifications

Environmental Specifications

- Operating temp: -40c to +85c (-45c to +80c storage)
- Humidity: 95% max (non condensing)

Mechanical

- WS3967-P: 47.8 mm diameter x 8.1mm (1.88" diameter x 0.32")
- Shock: Vertical axis 50G, other axes 30G
- Vibration: 3 axis, sweep = 15 min 10–200 Hz log sweep: 3G

Antenna Response

- Frequency: 1575.42 MHz + 25 MHz (approx.) prior to potting
- Gain: @ 90° 3 dBic, @ 20° -2.0 dBic
- Polarization: Right Hand Circular
- Axial ratio: @ 90° 4 dB, @ 20° 6 dB

Electrical

- Voltage: 2.7 5 VDC
- Current: 15 mA @ 5V, 9 mA @ 3.3V
- Connector: Right Angle MCX Other connector types available
 - Cable: Shikoku Coax Cable p/n 1.5QEHV(TA)
- Cable length: 15 cm (6"), other lengths available

LNA Specifications

- Frequency: 1572.5 1578 MHz
- Output Impedance: 50 Ohm
- ♦ VSWR: 1.5:1 max (at connector)
 Gain: @ 3.3VDC: 28 dB (typical)
 @ 5VDC: 30 dB (typical)
- Noise figure: 1.5 dB (typical) Out-of-band rejection: +/- 15 MHz: 5dB +/- 20 MHz: 10 dB +/- 30 MHz: 32 dB +/- 40 MHz: 40 dB