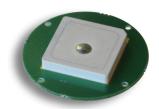
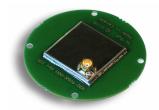


Wi-Sys Communications Inc. WS4057/WS4067 OEM GPS Antenna with Built-in MCX Connector

Applications:

- Portable Telematics
- Automotive Navigation Systems
- Fleet Management & Telematics Systems
- Marine Navigation Systems
- Asset Tracking Equipment
- Military Radios and In-Vehicle-Systems
- ♦ Law Enforcement Radios and In-Vehicle-Systems
- WLAN, WiMax and Cellular Base Station GPS Clock and Timing Systems





The WS4057/WS4067 OEM GPS antenna series with built-in connector is ideal for handheld GPS devices, mobile asset tracking equipment and GPS clock & timing applications. With its compact size and low price, the WS4057/WS4067 series is perfectly suited for OEM applications. The WS4057/WS4067 series features a custom designed ceramic patch element, a two-stage low noise amplifier and a SAW filter, enabling the WS4057/WS4067 series to provide great out-of-band signal rejection performance, consistent and clear signal while minimizing loss-of-lock. Both models come equipped with a MCX connector. The WS4057 comes in a very compact 25 mm square package and the WS4067 comes with a 45.2 mm dia. mini-ground plane.

Dimensions in mm (WS4067)

Features:

- Available with and without internal ground plane
- 2.7 to 5.0 V operation
- ◆ 28 dB gain @ 3.3 VDC
- ◆ 1.5 dB noise figure
- Built in MCX connector
- Ideal for embedded applications
- ♦ Low price



Wi-Sys Communications Inc.

WS4057/WS4067 OEM GPS Antenna

Designed for easy integration into a variety of OEM platforms, the connectorised WS4057/67 integrates a two-stage low-noise series amplifier to ensure a reliable and clear signal for the GPS receiver even in 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 OEM Antenna Family

WS3930-ULD: Quad Band Cellular

Covert Antenna

WS3940-ULD: Active GPS + Quad Band Cellular Combined Covert Antenna

WS3947-ULD: Low Cost Active GPS + Quad Band 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/WS4061: Low Noise OEM GPS Antenna with built-in MCX Connector

WS4055/WS4065: Low Current OEM GPS Antenna with built-in MCX Connector

Technical Specifications

Environmental Specifications

- -40c to +80c operating temp. (-45c to +80c storage)
- Humidity 95% max (non condensing)

Mechanical

- **WS4057** 25 mm x 25 mm x 6.7 mm (no ground plane) (0.98" x 0.98" x 0.26")
- **WS4067** 45.2 mm dia. x 6.7 mm (with ground plane) (1.78" diameter x 0.26")
- 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

Gain: @ 90° 3 dBic, @ 20° -2.0 dBic

Polarization: Right Hand Circular Axial ratio: @ 90° 4 dB, @ 20° 6 dB

Electrical

Voltage: 2.7 - 5.0 VDC

15 mA @ 5V, 9 mA @ 3.3V Current:

Connector: **MCX**

Cable Accessory: Custom cable assembly is available,

please contact factory.

LNA Specifications

1572.42 - 1578.42 MHz Frequency:

Output Impedance: 50 Ohm

VSWR: 1.5:1 max (at connector) Gain: @ 3.3VDC: 28 dB (typical) @ 5.0VDC: 30 dB (typical)

1.5 dB (typ.)

Noise figure: Out-of-band rejection: +/- 15 MHz: 5dB

+/- 20 MHz: 10 dB +/- 30 MHz: 32 dB +/- 40 MHz: 40 dB

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