



a time and place...
for everything

Wi-Sys Communications Inc.

WS3938 Ultra Compact 2.4 GHz Embedded & Covert Mount Antenna

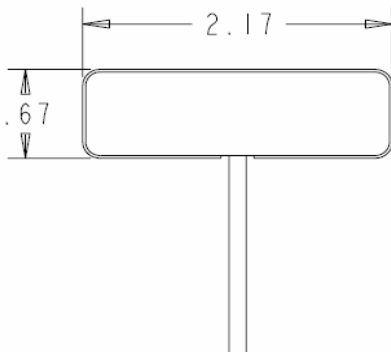
Applications:

- ◆ 2.4 GHz Based Telematics
- ◆ M2M Wireless Applications using WiFi, Bluetooth, Zigbee and proprietary 2.4 GHz
- ◆ In-Vehicle Covert Installations
- ◆ Wireless Remote Monitoring



The WS3938 Ultra Compact 2.4 GHz Embedded & Covert Mount Antenna provides exceptional signal reception on the 2.4 GHz ISM band. The WS3938 is composed of an ultra compact semi-flexible coated PCB for embedded OEM applications and is also available with a Lexan® covered urethane foam package for dash and covert installations. The WS3938 antenna is ideal for cutting-edge TELEMATICS and M2M platforms.

Dimensions: in inches



Features:

- ◆ 2.4 GHz ISM Band reception
- ◆ Ultra-compact, semi-flexible PCB
- ◆ Coated PCB or packaged form factor
- ◆ Embedded, covert and dash mount
- ◆ Easy to install
- ◆ Wide range of connector types available
- ◆ Low price
- ◆ Customization available

Ordering information:

WS3938-E: Coated PCB for embedded OEM applications

WS3938-C: Lexan® covered urethane foam packaging for covert and in-vehicle installations



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WS3938 2.4 GHz Covert Antenna

The WS3938 is a custom-designed high performance 2.4 GHz antenna element on an ultra-compact, flexible coated PCB, and also available with a foam package. With a wide range of connectors, the WS3938 is the perfect solution for in-vehicle Telematics and embedded M2M installations.

Other Wi-Sys Embedded & Covert Antennas

WS1357/67: Ultra Compact Embedded GPS antenna

WS1857/56: Compact Embedded GPS antenna

WS3930: Quad-band Cell + 3G GHz Covert antenna

WS3940: Active GPS + Quad Cellular Combined
Glass mount antenna

WS3947: Active GPS + Quad Cell/3G/2.4 GHz
Combined Covert/Dash mount 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: High gain, low noise
Connectorized Embedded antenna

WS4055/WS4065: low current Connectorized
Embedded GPS antenna

WS4057/WS4067: low price filtered Connectorized
Embedded GPS antenna

Technical Specifications

Environmental Specifications

- ◆ Operating Temp: -40c to +85c
- ◆ Humidity: 95% max (non condensing)

Mechanical

- ◆ Dimensions:
WS3938-E – 2.17" x 0.67" x 0.025"
(55.1 mm x 17 mm x 0.64 mm)
WS3938-C – 2.17" x 0.67" x 0.18"
(55.1 mm x 17 mm x 4.5 mm)
- ◆ Material:
WS3938-E – Black solder masked PCB
WS3938-C – Black Lexan® covered urethane foam
- ◆ Cable: 1.5 DS-QEHV Shikoku Cable
- ◆ Cable length: 15 cm (standard),
other lengths available.
- ◆ Cable loss: 1.0 dB/m typical
- ◆ Connector: MCX Right Angle (standard),
other connectors available

Electrical

- ◆ Frequencies: 2.4-2.5 GHz (2.4 GHz ISM band)
- ◆ Output Impedance: 50 Ohm nominal
- ◆ VSWR: < 2.0
- ◆ Gain: 2 dBi (approx.)



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