



a time and place...
for everything

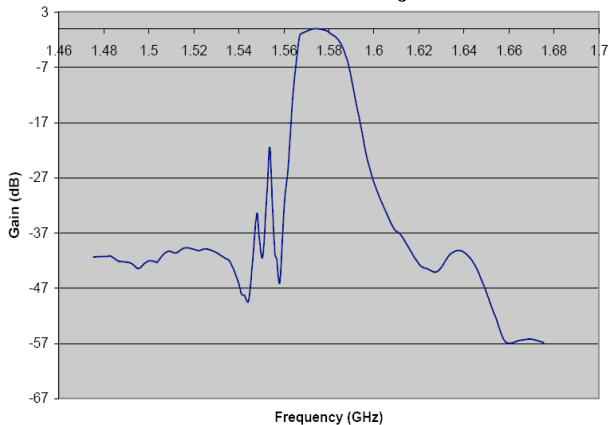
Wi-Sys Communications Inc.

WS3951 / WS3961 – Very Low Noise Embedded GPS Antennas

Features:

- ◆ WS3951: without internal ground plane
- ◆ WS3961: with internal ground plane
- ◆ 28 dB gain @ 3.3 VDC
- ◆ Extremely low noise figure: 0.5 dB
- ◆ Excellent out-of-band signal rejection
- ◆ RoHS compliant

Out-of-band Filter Rejection



Ordering Information:

- ◆ **WS3951-15cm-MCX:** 15 cm cable with a MCX right angle connector
- ◆ **WS3961-15cm-MCX:** 15 cm cable with a MCX right angle connector

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Technical Specifications

Environmental Specifications

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

Mechanical

- ◆ **WS3951** - 28.4 mm x 28.3 mm x 7.7 mm
- ◆ **WS3961** - 45.2 mm diameter x 7.7 mm
- ◆ 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
- ◆ Current: 7.5 mA @ 3.3VDC (typical)
- ◆ Connector: MCX right angle
Other connector types available
- ◆ Cable: RG174
- ◆ 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 @ 3.3 VDC: 28 dB (typical)
@ 5.0 VDC: 30 dB (typical)
- ◆ Noise figure: 0.5 dB