

## 3961D Low Noise Embedded GPS Antenna

The 3961D Embedded GPS Antenna has one of the industry's lowest noise figures. It features a tuned custom ceramic patch element that minimizes detuning effects caused by adjacent objects. It also features ESD circuit protection, an innovative LNA (low noise amplifier) and a high rejection SAW filter which enable these antennas to provide a consistent, clear signal while minimizing loss-of-lock even when GPS conditions are less than ideal. The 3961D comes with a 45.2 mm diameter mini ground plane.

### Features

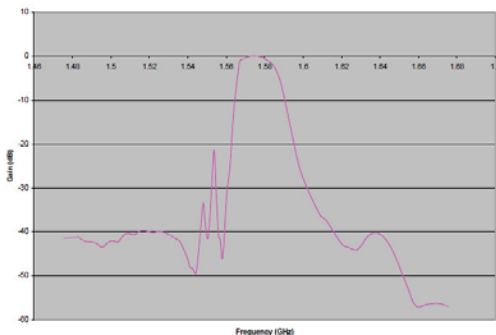
- Comes with internal ground plane
- 15 KV ESD circuit protection
- Low noise figure: 0.5 dB
- Excellent out-of-band signal rejection
- Ideal for embedded applications



### Low Noise Amplifier Specifications

<b>Nominal Impedance:</b> 50 Ohm
<b>VSWR:</b> 1.5:1 max (at connector)
<b>Nominal Gain:</b> @ 3.3VDC: 28 dB @ 5VDC: 30 dB
<b>Noise Figure:</b> 0.5 dB (typical)
<b>Voltage:</b> 2.7 - 5 VDC

### Out-of-band Filter Rejection Chart



### RF/Electrical Specifications

Center Frequency	Gain	Polarization	Current Draw
1575.42MHz ±10 MHz	3 dBic @ 90° -2 dBic @ 20°	Right Hand Circular	7.5 mA @ 3.3VDC (typical)

### Mechanical Specifications

Antenna Dimensions	Weight	Shock	Vibration
1.8" x .3" (45.2 x 7.7 mm)	.56 oz (16 g)	Vertical axis 50G, other axes 30G	3 axis, sweep = 15 min 10 - 200 Hz log sweep: 3G
Cable		Connector	
6" (15 cm) RG174		MCX right angle	

### Environmental Specifications

Temperature Range	Humidity
-40°C to +85°C operating	95% max (non condensing)

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