

## 1357D Compact Embedded GPS Antenna

The Ultra Compact 1357D Embedded GPS antenna is ideal for GPS enabled ruggedized PDAs, laptops and portable GPS Handhelds. The 1357D antenna features a compact ceramic patch element, ESD circuit protection, a low noise amplifier and a SAW filter, enabling the 1357D to provide great out-of-band signal rejection performance, consistent and clear signal while minimizing loss-of-lock in an extremely small form factor.

### Features

- Ultra compact form factor
- 15 KV ESD circuit protection
- 2.7 to 5 V operation
- Ideal for embedded applications
- RoHS compliant

### RF/Electrical Specifications

Center Frequency	Gain	Polarization	Current Draw
1575.42MHz ±10 MHz	0.5 dBic	Right Hand Circular	9 mA @ 3.3V 15 mA @ 5V

### Mechanical Specifications

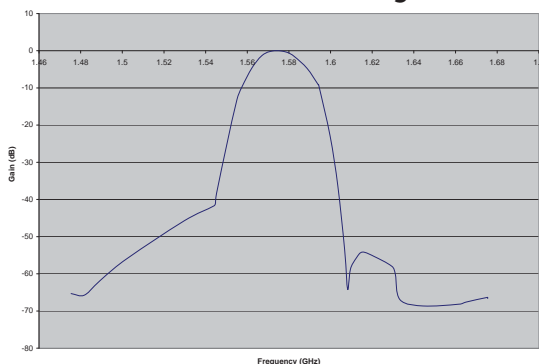
Antenna Dimensions	Weight	Shock	Vibration
.5" x .5" x 2.3" (13 x 13 x 58 mm)	5.9 g (.21 oz)	Vertical axis 50G, other axes 30G	3 axis, sweep = 15 min 10 - 200 Hz log sweep: 3G

Cable	Connector
6" (15 cm) CO-6F.FH-SB cable (1.5 mm diameter)	H.FL

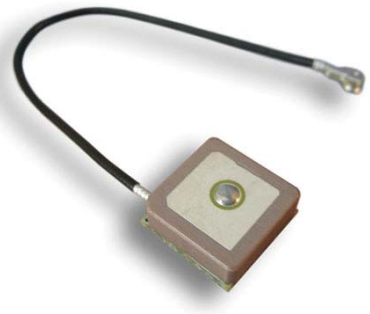
### Environmental Specifications

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

### Out-of-band Filter Rejection Chart



Product specifications are subject to change without notice.



### Low Noise Amplifier Specifications

<b>Nominal Gain:</b> @ 3.3VDC: 28 dB (typical) @ 5VDC: 30 dB (typical)
<b>Noise Figure:</b> 1.5 dB (typical)
<b>Voltage:</b> 2.7 - 5 VDC
<b>Out-of-band Rejection:</b> +/- 15 MHz: 5dB +/- 20 MHz: 10 dB +/- 30 MHz: 32 dB +/- 40 MHz: 40 dB