



1357D Compact Embedded GPS Antenna

The 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



Low Noise Amplifier Specifications

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

RF/Electrical Specifications

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

Mechanical Specifications

Antenna Dimensions	Weight	Shock	Vibration
.63" x .63" x .23" (16 x 16 x 5.8 mm)	.21 oz (5.9 g)	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)