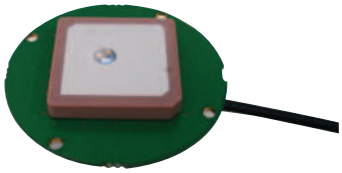
Low Noise GPS Embedded Antenna

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.



3961D

Features

- Comes with internal ground plane
- 15 KV ESD circuit protection
- Low noise figure: 0.5 dB
- Ideal for embedded applications

STANDARD CONFIGURATION

Model	Cable	Connector
3961D	6" (15 cm) RG174	MCX right angle

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Range	LNA Gain	Element Gain	Polarization	Noise Figure
1575.42 ± 10 MHz	@ 3.3 VDC: 28 dB @ 5 VDC: 30 DB	3 dBic @ 90° -2 dBic @ 20°	Right hand circular	0.5 dB (typical)

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

Current Draw	DC Voltage	VSWR	Nominal Impedance	Out of Band Rejection
7.5 mA @ 3.3 VDC (typical)	2.7-5.0 VDC	1.5:1 maximum	50 ohms	> 30 dB @ ± 40 MHz

MECHANICAL SPECIFICATIONS

Dimensions	Weight
1.85" Dia x 0.32" H (47 x 8 mm)	0.56 oz (16 g)

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	ESD Circuit Protection	Humidity
-40°C to +85°C operating	15 KV	95% max (non condensing)