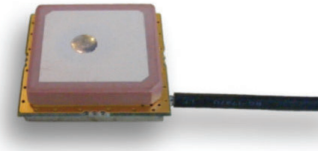




Low Noise GPS Embedded Antenna, NGP

The 3951D 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 a consistent, clear signal while minimizing loss-of-lock even when GPS conditions are less than ideal.



3951D

Features

- 15 KV ESD circuit protection
- Low noise figure: 0.5 dB LNA
- Excellent out-of-band signal rejection
- Ideal for embedded applications

STANDARD CONFIGURATION

Model	Cable	Connector
3951D	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
7.5 mA @ 3.3 VDC (typical)	2.7-5.0 VDC	1.5:1 maximum	50 ohms

MECHANICAL SPECIFICATIONS

Dimensions	Weight
1.1" x 1.1" x 0.3" (28.4 x 28.3 x 7.7 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)