

Low-Profile Surface Mount GPS Antenna



The 3997D surface mount GPS Antenna provides high performance in a very small form factor. It features a custom designed ceramic patch element that minimizes detuning effects caused by adjacent objects. This element, along with a low noise amplifier and SAW filter, enables the 3997D to provide a consistent, clear signal while minimizing loss-of-lock when GPS conditions are less than ideal. The 3997D is housed in a very compact all-plastic, non-corrosive low-profile package. The 3997D is ideal for permanent installations in asset tracking and timing synchronization where performance and size are critical factors.



3997D

Features

- Extremely low in-vehicle connector profile
- Small mounting holes
- Voltage range: 2.7 to 5.5 V
- Low noise figure: 1.5 dB

STANDARD CONFIGURATION

Model	Connector	Mount
3997D	MCX jack	4 x 4-40 screw mounting holes

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Range	LNA Gain	Element Gain	Polarization	Out of Band Rejection
1575.42 ± 10 MHz	@ 3.3 VDC: 28 dB @ 5 VDC: 30 DB	3 dBic @ 90° -2 dBic @ 20°	Right hand circular	> 20 dB @ ± 30 MHz

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

Current Draw	DC Voltage	Noise Figure	Nominal Impedance
9 mA @ 3.3V 15 mA @ 5V	2.7-5 VDC	1.5 dB (typical)	50 ohms

MECHANICAL SPECIFICATIONS

Dimensions	Weight	Housing Material
1.7" Dia x .53" H (44.28 x 13.42 mm)	0.057 lbs (26 g)	PC

ENVIRONMENTAL SPECIFICATIONS

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