

3971D-DH-W Low Noise Permanent Mount GPS Antenna

The 3971D-DH-W Permanent Mount GPS Antenna provides 28 dBd of gain and has one of the industry's lowest noise figures. It provides clear GPS signal reception while minimizing loss-of-lock even in less than ideal conditions and is the optimum choice for GPS Tracking and Timing applications with long cable runs and stand alone GPS applications. The 3971D-DH-W features a precision tuned custom ceramic patch element, ESD circuit protection and a high rejection SAW filter. Available in an all-plastic, non-corrosive white cone-shaped radome for fixed installations.

Features

- Weather proof, all-plastic, non-corrosive, cone-shaped enclosure
- Unique radome sheds water and ice, while eliminating problems associated with bird perching
- 28dB gain
- Low current: 8mA (typ)
- ¾ inch thru-hole or bracket mount
- Voltage range 2.7 to 5.5 V



RF/Electrical Specifications

Center Frequency	Nominal Gain	Current Draw
1575.42 MHz $\pm$ 10 MHz	3 dBic @ 90° -2 dBic @ 20°	8 mA (typical)

Mechanical Specifications

Antenna Dimensions (diameter x height)	Weight	Shock	Vibration
2.36" x 1.73" (60 x 44 mm)	.11 lbs (50 g)	Vertical axis 50G, other axes 30G	3 axis, sweep = 15 min 10 – 200 Hz log sweep: 3G

Housing	Connector	Mounting Method
GE Lexan® EXL9330	TNC jack	¾" thru-hole or bracket mount*

Environmental Specifications

Temperature Range	Weatherproof
-40°C to +85°C operating	IP67

*Order MMK1925 bracket for compatible mounting

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Low Noise Amplifier Specifications

Nominal Gain:
28 dB @ 3.3V

Noise Figure:
0.8 dB (typical)

Voltage:
2.7-5 VDC

Out-of-band Filter Rejection

