

3971D Low Noise Permanent Mount GPS Antenna

The 3971D Low Noise Permanent Mount GPS Antenna has one of the industry's lowest noise figures. It features a precision tuned custom ceramic patch element, ESD circuit protection and a high rejection SAW filter. The 3971D provides clear GPS signal reception while minimizing loss-of-lock even in less than ideal conditions. Available in an all-plastic, non-corrosive low profile package for vehicle mounting in a white or dark gray housing.

Features

- Weather proof, all-plastic, non-corrosive, low profile enclosure
- Very low noise (0.8 dB) LNA
- 28dB gain @ 3.3V
- Low current: 8mA @ 3.3V
- High rejection SAW filter
- ¾ inch thru-hole or bracket mount
- Voltage range 2.7 to 5.5 V
- Available in a black or white radome



RF/Electrical Specifications

Center Frequency	Nominal Gain	Polarization	Current Draw
1575.42 MHz ± 10 MHz	3 dBic @ 90° -2 dBic @ 20°	Right Hand Circular	8 mA @ 3.3V

Mechanical Specifications

Antenna Dimensions (diameter x height)	Weight	Shock	Vibration
2.36" x .83" (60 x 21 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 female	¾" thru-hole or bracket mount*	

Environmental Specifications

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

Available Models

Part Number	Description
3971D	Black radome
3971D-W	White radome

*Order MMK1925 bracket for compatible mounting

Low Noise Amplifier Specifications

Nominal Gain: 28 dB @ 3.3V
Noise Figure: 0.8 dB (typical)
Out-of-Band Signal Rejection: > 30dB @ +/- 30 MHz
Voltage: 2.7-5 VDC