

## 3978D-HR-DH High Gain & High Rejection Permanent Mount GPS Antenna

The 3978D-HR-DH-W high gain, permanent mount GPS Antenna provides 40 dB gain and superior out-of-band rejection performance and is the optimum choice for GPS Tracking and Timing applications with long cable runs and stand alone GPS applications. It features a precision tuned custom ceramic patch element for maximum signal reception, 15KV ESD circuit protection, a 3 stage LNA circuit and dual high rejection SAW filters. This enables the 3978D-HR-DH to provide a reliable and clear GPS signal while minimizing loss-of-lock, even when conditions are less than ideal. Available in an all-plastic, non-corrosive conical package for vehicle mounting or fixed installations.

### Features

- Weather proof, all-plastic, non-corrosive, cone-shaped enclosure
- 3/4 inch thru-hole or bracket mount
- Unique radome sheds water and ice, while eliminating problems associated with bird perching
- Very high rejection dual SAW filter for superior out-of-band rejection
- Voltage range: 2.7 to 5.5 V
- High gain: 40 dB (typical)

### Low Noise Amplifier Specifications

Nominal Gain: 40 dB
Noise Figure: 3.1 dB (typical)
Voltage: 2.7-5.5 VDC
ESD Circuit Protection: 15 KV

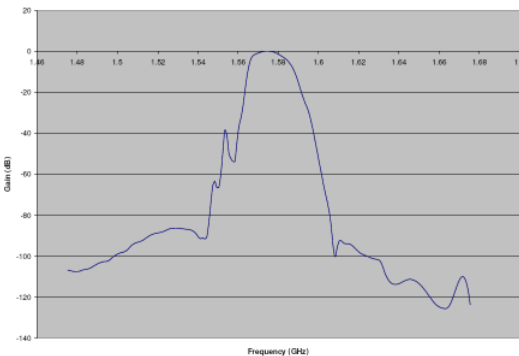
### RF/Electrical Specifications

Center Frequency	Nominal Gain	Polarization	Current Draw
1575.42 MHz ± 10 MHz	3 dBic @ 90° -2 dBic @ 20°	Right Hand Circular	15 mA @ 5.5 VDC

### 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	3/4" thru-hole or bracket mount*	

### Out-of-band Filter Rejection



### Environmental Specifications

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

Part Number	Description
3978D-HR-DH	Black radome
3978D-HR-DH-W	White radome

\*Order MMK1925 bracket for compatible mounting

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