



3978D-DH-W High Gain Permanent Mount GPS Antenna

The 3978D-DH-W high gain permanent mount GPS Antenna provides 40 dB gain and great high out-of-band rejection performance and is ideal for stand alone GPS applications. It features a precision tuned custom ceramic patch element for maximum signal reception, 15KV ESD circuit protection, a very low noise (0.5 dB) 3 stage LNA circuit and a SAW filter. This enables the 3978D-DH-W 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 white cone-shaped radome for fixed installations.

Features

- Weather proof, all-plastic, non-corrosive, cone-shaped enclosure
- 3/4 inch thru-hole or bracket mount
- Voltage range: 2.7 to 5.5 V
- High gain: 40 dB (typical)
- Very low noise figure: 0.5dB
- Great out-of-band signal rejection
- 15 KV ESD circuit protection

Low Noise Amplifier Specifications

Nominal Gain: 40 dB
Noise Figure: 0.5 dB (typical)
Voltage: 2.7-5 VDC
ESD Circuit Protection: 15 KV

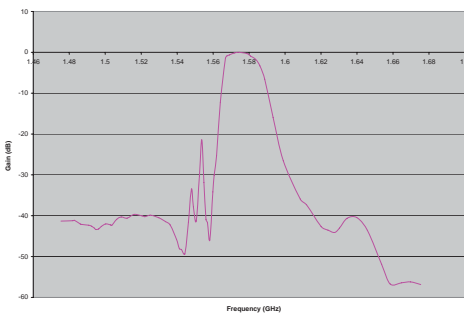
RF/Electrical Specifications

Center Frequency	Nominal Gain	Polarization	Current Draw
1575.42 MHz ± 10 MHz	3 dBic @ 90° -2 dBic @ 20°	Right Hand Circular	15 mA from 2.7-5.5 VDC

Mechanical Specifications

Antenna Dimensions (diameter x height)	Weight	Shock	Vibration
2.4" x 1.7" (60 x 44 mm)	1.8 oz (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	Weatherproof
-40° C to +85° C operating	IP67

*Order MMK1924 bracket for compatible mounting