

High Gain Permanent Mount GPS Antenna

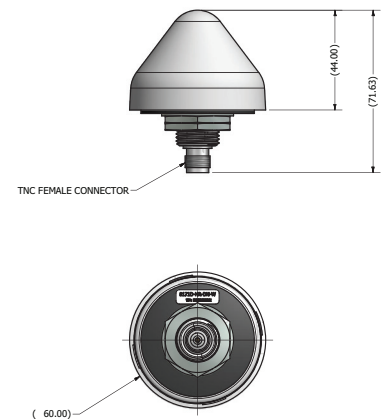
The 3978D-DH-W high gain permanent mount GPS Antenna provides 40 dB gain and great high out-of-band rejection performance and is the optimum choice for GPS Tracking and Timing applications with long cable runs and stand alone GPS applications. It features a precision tuned custom ceramic patch element for maximum signal reception, 15KV ESD circuit protection, a very low noise (0.5 dB) multi-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 low profile package for vehicle mounting.

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
- Voltage range: 2.7-5.5 V
- High gain: 40 dB (typical)
- Low noise figure: 0.5 dB



3978D-DH-W



STANDARD CONFIGURATION

Model	Connector	Mount
3978D-DH-W	TNC jack	3/4" thru-hole or bracket mount*

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Range	LNA Gain	Element Gain	Polarization
1575.42 ± 10 MHz	40 dB	3 dBic @ 90° -2 dBic @ 20°	Right hand circular

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

Out of Band Rejection	Current Draw	DC Voltage	Noise Figure
> 35 dB @ ± 40 MHz	15 mA @ 5.5 VDC	2.7-5 VDC	0.5 dB (typical)

MECHANICAL SPECIFICATIONS

Dimensions	Weight	Housing Material
2.36" Dia x 1.73" H (60 x 44 mm)	.11 lbs (50 g)	PC

ENVIRONMENTAL SPECIFICATIONS

Temperature Range	ESD Circuit Protection	Ingress Protection
-40°C to +85°C operating	15 KV	IP67**

* Order MMK1925 bracket for compatible mounting.
** When installed according to manufacturer's installation instructions.