**PCTEL**®

3978D-HR-DH-W

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 multi-stage LNA circuit and dual high rejection SAW filters. This enables the 3978DHR- 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 conical package for vehicle mounting or fixed installations.

3978D-HR-DH-W

(44.00)
(71.63)

TNC FEMALE CONNECTOR

(60.00)

RoHS COMPLIANT
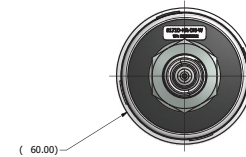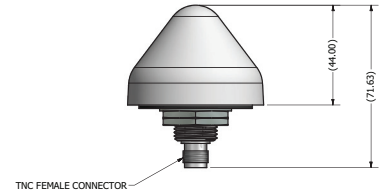
Features

- Weather proof, all-plastic, non-corrosive, cone-shaped enclosure
- ¾ inch thru-hole or bracket mount
- Unique radome sheds water and ice, while eliminating problems associated with bird perching
- Very high rejection dual SAW fi ler for superior out-of-band rejection
- Voltage range: 2.7-5.5 V
- High gain: 40 dB (typical)

STANDARD CONFIGURATION

Model	Connector	Mount
3978D-HR-DH-W	TNC jack	¾" thru-hole or bracket mount*

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Range	LNA Gain	Element Gain	Current Draw
1575.42 ± 10 MHz	40 dB	3 dBic @ 90° -2 dBic @ 20°	15 mA @ 5.5 VDC

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

DC Voltage	Noise Figure	Polarization	Out of Band Rejection
2.7-5.5 VDC	3.1 dB (typical)	Right hand circular	> 50 dBc @ ± 40 MHz

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	Weight	Housing Material	Temperature Range	ESD Circuit Protection	Ingress Protection
2.36" Dia x 1.73" H (60 x 44 mm)	0.11 lbs (50 g)	PC	-40°C to +85°C operating	15 KV	IP67**

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