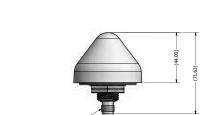
3978D-HR-DH-W



## **High Gain & High Rejection Permanent Mount GPS Antenna**

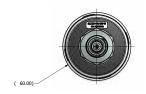
The 3978D-HR-DH-W high gain, permanent mount GPS Antenna provides 40 dB gain and superior out-of-band rejection performance and is the optimum choice for GPS Tracking and Timing applications with long cable runs and stand alone GPS applications. It features a precision tuned custom ceramic patch element 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

## **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 filter for superior out-of-band rejection
- Voltage range: 2.7-5.5 V
- High gain: 40 dB (typical)



TNC FEMALE CONNECTO

STANDARD CONFIGURATION							
Model	Connector	Mount					
3978D-HR-DH-W	TNC jack	34" 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°	18 mA @ 3.3 VDC (typ.)				

ELECTRICAL SPECIFICATION	CAL 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**	