



High Rejection Low-Profile Permanent Mount GPS Antenna

The 3971D-HR, low-profile permanent mount GPS antenna provides 28 dB gain and superior out-of-band rejection performance and is the optimum choice for GPS Tracking and Timing applications with high RF fields. 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 3971D-HR 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.



3971D-HR

Features

- Weather proof, all-plastic, non-corrosive, low-profile enclosure
- 3/4 inch thru-hole or bracket mount
- High out-of-band rejection for stand-alone or mobile applications where interference is a concern and performance is critical
- Innovative dual SAW filter design
- Voltage range: 2.7 to 5.5 V
- Low current draw: 8 mA @ 3.3 VDC

STANDARD CONFIGURATION

Model	Connector	Mount
3971D-HR	TNC jack	3/4" thru-hole or bracket mount*

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

Frequency Range	LNA Gain	Element Gain	Polarization
1575.42 ± 10 MHz	28 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
> 50 dBc @ ± 40 MHz	8 mA @ 3.3 VDC	2.7-5.5 VDC	3.1 dB (typical)

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

Dimensions	Weight	Housing Material	Temperature Range	ESD Circuit Protection	Ingress Protection
2.36" Dia x .83" H (60 x 21 mm)	0.11 lbs (50 g)	PC	-40°C to +85°C operating	15 KV	IP67**

* Order MMK1925 bracket for compatible mounting.