

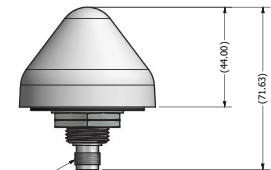
High Rejection Permanent Mount GPS Antenna



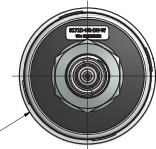
The 3971D-HR-DH-W, permanent mount GPS Antenna provides 28 dB gain and superior out-of-band rejection performance and is the optimum choice for GPS Tracking and Timing applications with high RF fields. It features a precision tuned custom ceramic patch element for maximum signal reception, 15KV ESD circuit protection, multi and dual high rejection SAW filters. This enables the 3971D-HR-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.



3971D-HR-DH-W



TNC FEMALE CONNECTOR



(60.00)

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
- Very high rejection dual SAW filter for superior out-of-band rejection
- Voltage range: 2.7 to 5.5 V
- Low current draw: 8 mA @ 3.3 VDC

STANDARD CONFIGURATION

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

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

| Frequency Range | LNA Gain | Element Gain | Current Draw | DC Voltage | Noise Figure | Polarization | Out of Band Rejection |
|------------------|----------|-------------------------------|-------------------|-------------|------------------|---------------------|-----------------------|
| 1575.42 ± 10 MHz | 28 dB | 3 dBic @ 90° -2 dBic @ 20° | 8 mA @ 3.3 VDC | 2.7-5.5 VDC | 3.1 dB (typical) | Right hand circular | > 50 dBc @ ± 40 MHz |

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.