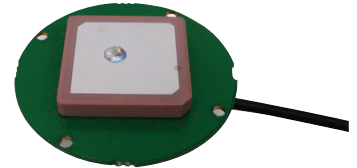


High Rejection Embedded GPS Antenna

The 3961D-HR Embedded GPS Antenna provides 25 dB gain, superior out-of-band rejection performance and is the optimum choice for embedded 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 3961D-HR to provide a reliable and clear GPS signal while minimizing loss-of-lock, even when conditions are less than ideal. The 3961D-HR comes with a 45.2 mm diameter mini ground plane.



3961D-HR

Features

- 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
- Low current draw: 7.5 mA @ 3.3 VDC
- Comes with internal ground plane
- 15 KV ESD circuit protection

STANDARD CONFIGURATION

| Model | Cable | Connector |
|----------|-------------------|------------------|
| 3961D-HR | 6" (15 cm) RG174* | MCX right angle* |

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

| Frequency Range | LNA Gain | Element Gain | Polarization | Noise Figure |
|------------------|--------------------------------------|-------------------------------|---------------------|---------------------|
| 1575.42 ± 10 MHz | @ 3.3 VDC: 25 dB @ 5 VDC: 25.5 dB | 3 dBic @ 90° -2 dBic @ 20° | Right hand circular | 3.1 dB (typical) |

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

| Out of Band Rejection | Current Draw | DC Voltage | VSWR | Nominal Impedance |
|-----------------------|-------------------------------|------------|-------------|-------------------|
| > 50 dBc @ ± 40 MHz | 7.5 mA @ 3.3 VDC (typical) | 2.7-5 VDC | 2.0:1 (max) | 50 ohms |

MECHANICAL SPECIFICATIONS

| Dimensions | Weight |
|--------------------------------|-------------------|
| 1.8" x 0.3" (45.2 x 7.7 mm) | 0.56 oz (16 g) |

ENVIRONMENTAL SPECIFICATIONS

| Temperature Range | ESD Circuit Protection | Humidity |
|--------------------------|------------------------|--------------------------|
| -40°C to +85°C operating | 15 KV | 95% max (non condensing) |

* For other cable lengths and connector options, please refer to the GPS Mobile Antenna Parts Number Guide.