



Permanent Mount GPS Antenna

The 3977D permanent mount GPS value antenna provides 30 dB gain features a precision tuned custom ceramic patch element for maximum signal reception and 15KV ESD circuit protection. This enables the 3977D to minimize loss-of-lock, even when conditions are less than ideal. Available in an all-plastic, non-corrosive low-profile package for vehicle mounting in a white or dark gray housing.

Features

- Weather proof, all-plastic, non-corrosive, low-profile enclosure
- 3/4 inch thru-hole or bracket mount
- Voltage range: 2.7 to 5.5 V
- High gain: 30 dB
- Low noise figure: 1.5 dB



3977D (Top)
3977D-W (Bottom)

STANDARD CONFIGURATION

| Model | Connector | Mount | Radome |
|------------------|------------|----------------------------------|------------------------------|
| 3977D 3977D-W | TNC Female | 3/4" thru-hole or bracket mount* | Color: Black Color: White |

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA

| Frequency Range | LNA Gain | Element Gain | Out of Band Rejection |
|----------------------|----------|-------------------------------|-----------------------|
| 1575.42 MHz ± 10 MHz | 30 dB | 3 dBic @ 90° -2 dBic @ 20° | > 30dB @ ± 30 MHz |

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

| Current Draw | DC Voltage | Noise Figure | Polarization |
|--------------|------------|------------------|---------------------|
| 8 mA | 2.7-5 VDC | 1.5 dB (typical) | Right hand circular |

MECHANICAL SPECIFICATIONS

| Dimensions | Weight | Housing Material |
|----------------------------------|-----------------|------------------|
| 2.36" Dia x 0.83" H (60 x 21 mm) | 0.11 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