

Permanent Mount GPS Antenna

The 3977D permanent mount GPS value antenna provides 28 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: 28 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	@ 3.3VDC: 28 dB @ 5VDC: 30 dB	3 dBic @ 90° -2 dBic @ 20°	> 30dB @ ± 30 MHz

ELECTRICAL SPECIFICATIONS - GNSS ANTENNA, continued

Current Draw	DC Voltage	Noise Figure	Polarization
<20mA @ 3.3v <35mA @ 5.0v	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