

M1575HCT-A-SMA

HIGH PERFORMANCE ACTIVE GPS ANTENNA

Ordering Part #: 100-00028-02



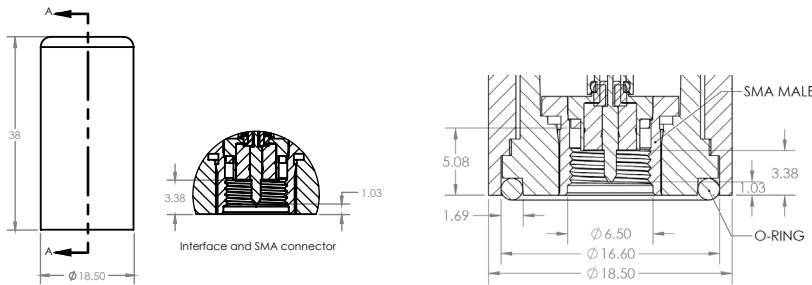
Features IP-67/68 rating • Light weight 10 grams • Ground plane independent

Description

The M1575HCT-A-SMA is a high performance dual stage LNA active antenna designed for the GPS L1 band, and built on Maxtena proprietary Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1575HCT-A-SMA is a screw-on design, featuring an integrated SMA connector. The ultra light design is rated IP-67/68 when mounted and unmounted for added protection and includes an o-ring. This product is ideal for applications requiring high quality reception of GPS signals.

Mechanical Specifications / Mounting Interface

dimensions are in mm



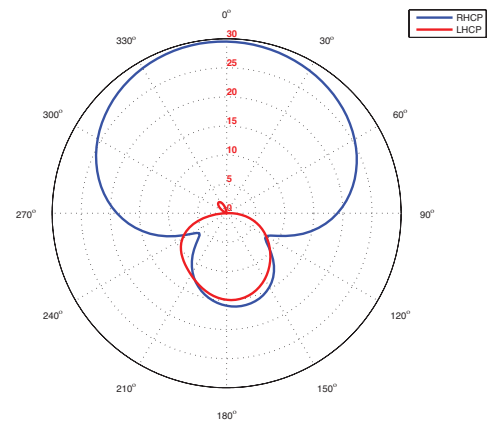
Electrical Specifications

Parameter	Design Specifications
Frequency	1575.42 MHz (GPS)
Polarization	RHCP
Total active gain	28 dBic (typical) / 26 dBic (min) @ 2.5 V
Passive gain	-0.5 dBic (typical)
Beamwidth	140° (both axes)
Axial ratio	1 dB (max) @ zenith
Input P1dB	-31 dBm
Noise figure	0.8 dB (typical) LNA chain only
Supply voltage	1.5 - 3.0 V
DC current	12 mA (typical) @ 2.5 V
Filtering	>30 dB rejection @1575 +/- 100 MHz
Operating temp.	from -40°C to 85°C
RF connector	SMA
Overall dimensions	38 mm (height) x 18.50 mm (diameter)
Weight	10 grams

Applications

- Military & security
- Asset tracking
- Oil & gas industries
- Navigation devices
- LBS & M2M applications
- Handheld devices
- Law enforcement

Typical Radiation Pattern (@ 2.5 V)



Filter Response

