M1575HCT-A-SMA

HIGH PERFORMANCE ACTIVE GPS ANTENNA

Ordering Part #: 100-00028-02

Features IP-67/68 rating • 10 grams in weight • Ground plane indepedent

Description

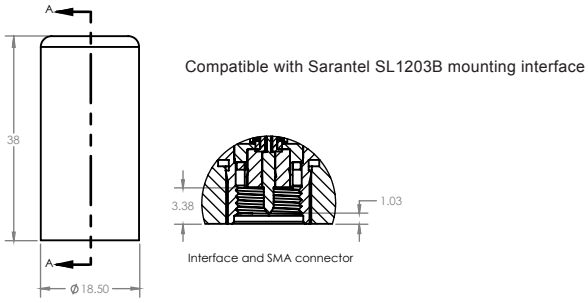
The M1575HCT-A-SMA is a high performance dual stage LNA active antenna designed for the GPS L1 band, and built on Maxtena proprietary Helicore™ technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1575HCT-A-SMA is 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.

Applications

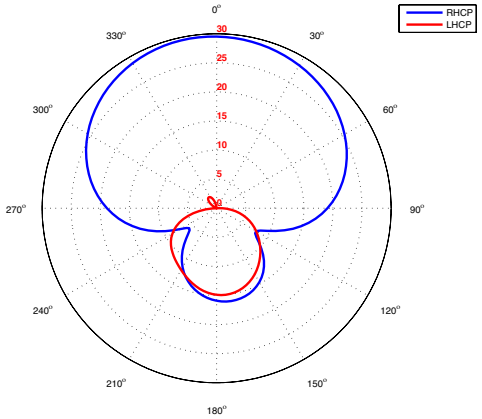
- Military & security
- Asset tracking
- Oil & gas industries
- Navigation devices
- LBS & M2M applications
- Handheld devices
- Law enforcement

Mechanical Specifications / Mounting Interface

dimensions are in mm



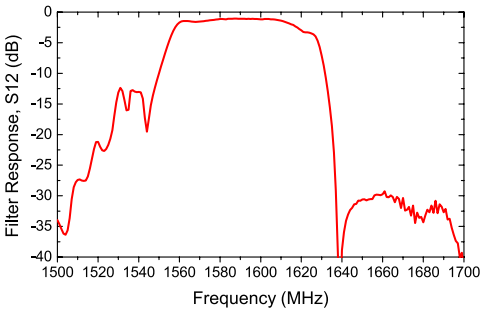
Typical Radiation Pattern (@ 3.3 V)



Electrical Specifications

Parameter	Design Specifications
Frequency	1575.42 MHz
Polarization	RHCP
Total active gain	28 dBic (typical) @ 3.3 V
Passive gain	-2.5 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 - 3.7 V
DC current	30 mA (typical) @ 3.3 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 (typical)

Filter Response



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