

Ordering Part #: 100-00028-07



The M1575HCT-15A-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-15A-SMA is a screw-on design, featuring an integrated SMA connector. The ultra light design is rated IP67 when mounted and unmounted for added protection and includes an internal O-ring. This product is ideal for applications requiring high quality reception of GPS signals.

General Specifications

Parameter	Design Specifications
Operating temp.	from -40°C to 85°C
Weight	10.6 grams (typical)
RF connector	Screw mount SMA

Environmental Specifications

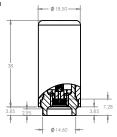
Parameter	Compliance
RoHS	Compliant
MIL-STD-810G	Compliant

Electrical Specifications

Parameter	Design Specifications
Frequency	1575.42 MHz (GPS)
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

Mechanical Specifications / Mounting Interface

dimensions are in mm



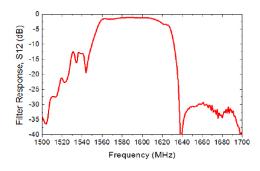




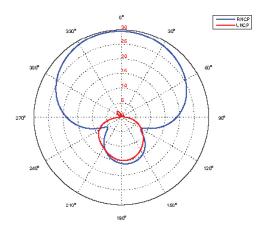
Applications

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

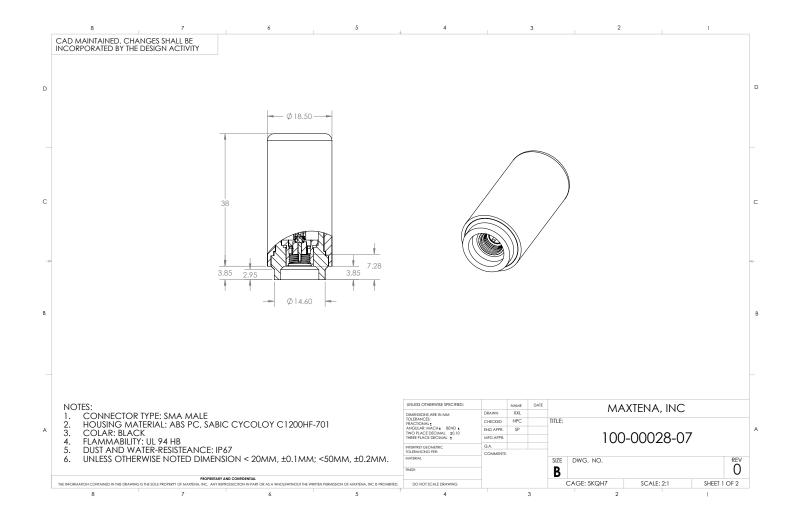
Filter Response



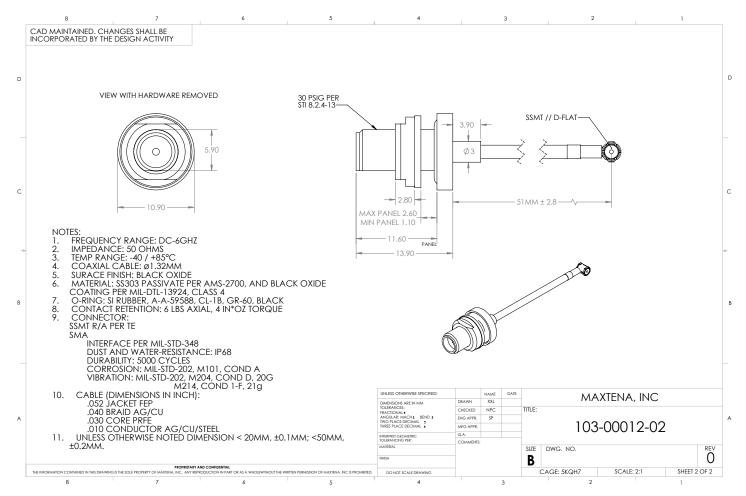
Typical Radiation Pattern (@ 3.3 V)











Cable/Connector Specifications

Parameter	Compliance
RoHS	Compliant
MIL-STD-810G	Compliant
MIL-STD-202	Compliant

