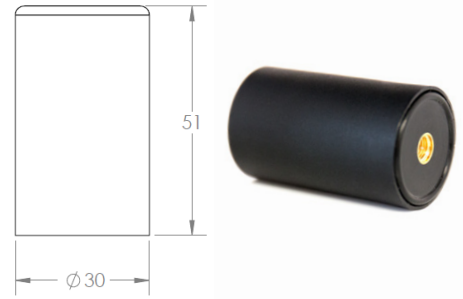


# M1227HCT-A2-SMA

## RUGGED L1/L2 GPS GLONASS ACTIVE ANTENNA

Ordering Part #: 100-00004-02



### Description

The M1227HCT-A2-SMA is Maxtena's latest high performance Active rugged antenna designed for L1/L2 GPS and GLONASS bands. The antenna is designed for applications requiring greater accuracy than what L1 only antennas can provide. The antenna is built on proprietary Maxtena Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. It is a screw-on design, featuring an integrated SMA connector. This antenna has superior filtering performance and is rated for 50 V/m out of band interference. The product is ideal for applications requiring minimal integration effort or for retrofitting existing products. The antenna is equipped with an O-ring and its rugged assembly is rated IP-67.

### Electrical Specifications

Parameter	Design Specifications
Frequency	1217-1250 MHz (L2) 1565-1610 MHz (L1)
Polarization	RHCP
Passive peak gain	2 dBic @ 1227 MHz (typical) 2 dBic @ 1575 MHz (typical)
Total gain	30 dBic @ 1227 MHz (typical) 28 dBic @ 1575 MHz (typical) 28 dBic @ 1602 MHz (typical)
Out-of-band rejection	>50 dB
Current drain	25 mA (typical)
Voltage	3-12 V
Noise figure	1.5 dB (typical)
RF interference rating	50 V/m out of band
Operating temp.	from -40°C to 85°C

### Mechanical Specifications

dimensions are in mm

### Features

- L1/L2 GPS-GLONASS bands
- Rugged IP-67 rating
- Superior out-of-band rejection
- 50 V/m jamming resistant
- Very low noise figure
- SMA mount
- Ground plane independent
- GIS & RTK applications
- Ultra light weight - 24 grams (typical)

### Applications

- Precision navigation
- Precision timing
- Military & security
- Asset tracking
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- Handheld devices
- Law enforcement

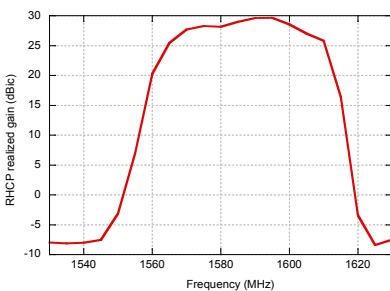
### L1 Band Typical Performance

Parameter	Design Specifications
Total peak gain	28 dBic
Axial Ratio	0.5 dB (typical) / 1 dB (max)
VSWR	<1.5

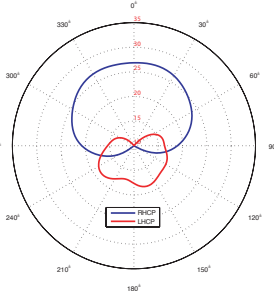
### L2 Band Typical Performance

Parameter	Design Specifications
Total peak gain	30 dBic
Axial Ratio	0.5 dB (typical) / 1 dB (max)
VSWR	<1.5

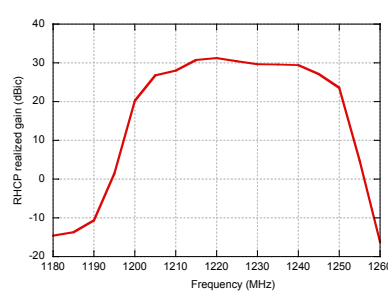
### L1 Band Frequency Response



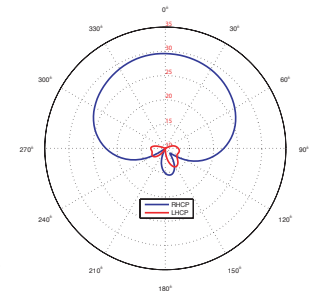
### L1 Gain (dBic)



### L2 Band Frequency Response



### L2 Gain (dBic)



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