

M1516HCT-SMA

GPS/GLONASS Passive Antenna

Description

The M1516HCT-SMA is a high performance antenna designed for GPS/GLONASS dual band, built on Maxtena proprietary HeliCore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1516HCT-SMA is a screw-on design, featuring an integrated SMA connector. This product is ideal for applications requiring high quality reception of both GPS and GLONASS signals. The antenna is equipped with an O-ring that makes the antenna waterproof once installed on a mating surface.

Mechanical Specifications

Dimensions are in mm

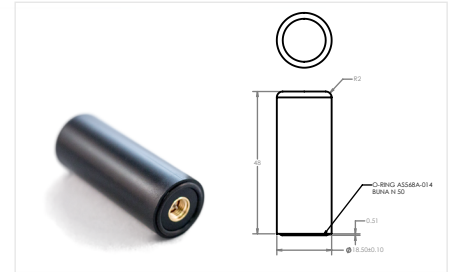


Image does not reflect the actual size of the antenna

Electrical Specifications

Parameter	Design Specifications
Frequency	1575 MHz (GPS)
	1602 MHz (GLONASS)
Polarization	RHCP
Antenna element peak gain	1.5 dBic (GPS)
	1.5 dBic (GLONASS)
Axial ratio	0.5 dB (typical) / 1 dB (max)
VSWR	1.5 (max)
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C
RF connector	SMA

Features

- GPS/GLONASS bands
- Very low axial ratio
- Ground plane independent
- Customizable cable length

Applications

- Vehicle & fleet tracking
- Military & security
- Asset tracking
- PDAs and laptops
- Oil & gas industries
- Navigation devices
- Law enforcement
- LBS & M2M applications

GPS Band Typical Performance

Parameter	Design Specifications
Antenna element gain	1.5 dBic
Efficiency	40%
Axial Ratio (@ Zenith)	0.5 dB (Max)

GLONASS Band Typical Performance

Parameter	Design Specifications
Antenna element gain	1.5 dBic
Efficiency	40%
Axial Ratio (@ Zenith)	0.5 dB (Max)

GPS RHCP Gain

GPS Axial Ratio

GLONASS RHCP Gain

GLONASS Axial Ratio

