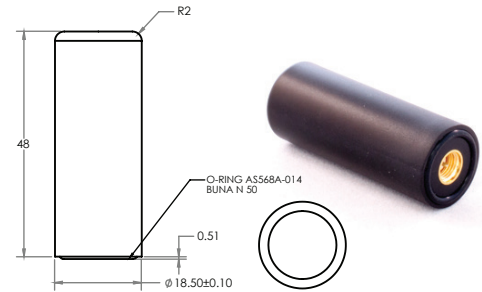


# M1600HCT-P-SMA

## IRIDIUM/GPS PASSIVE ANTENNA

Ordering Part #: 100-00050-01



### Description

The M1600HCT-P-SMA is a high performance antenna designed for the Iridium network and GPS band, and built on proprietary Maxtena Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1600HCT-P-SMA is a screw-on design, featuring an integrated SMA connector and is rated IP-67 when mounted for added protection. This product is designed for applications requiring high quality GPS and Iridium satellite reception.

### Electrical Specifications

Parameter	Design Specifications
Frequency	1616-1626 MHz (Iridium) 1575 MHz (GPS)
Polarization	RHCP
Antenna element peak gain	2.8 dBic (Iridium) -3 dBic (GPS)
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
Overall dimensions	48 mm (height) x 18.5 mm (diameter)
Weight	11 grams

### Mechanical Specifications

dimensions are in mm

### Features

- Very low axial ratio
- IP-67 mounted
- Ultra light weight - 11 grams
- Ground plane independent

### Applications

- Vehicle and fleet tracking
- Military & security
- Asset tracking
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- Handheld devices
- Law enforcement

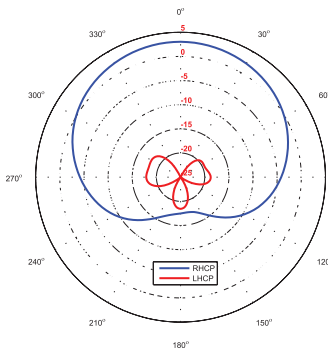
### Iridium Network Typical Performance

Parameter	Design Specifications
Antenna element peak gain	2.8 dBic (typical)
Efficiency	60% (typical)
Axial Ratio (@ Zenith)	0.5 dB (max)

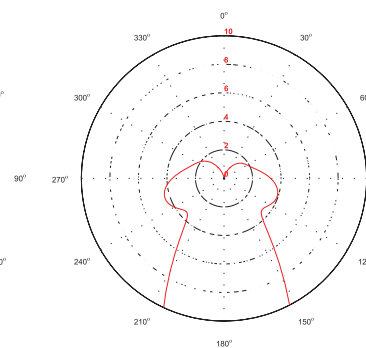
### GPS Band Typical Performance

Parameter	Design Specifications
Antenna element peak gain	-3 dBic (typical)
Efficiency	20% (typical)
Axial Ratio (@ Zenith)	0.5 dB (max)

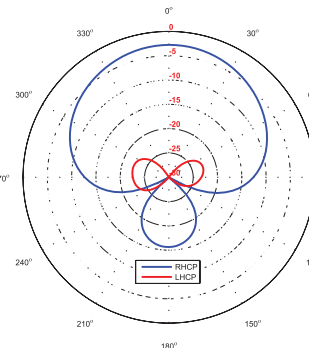
Iridium RHCP Gain



Iridium Axial Ratio



GPS RHCP Gain



GPS Axial Ratio

