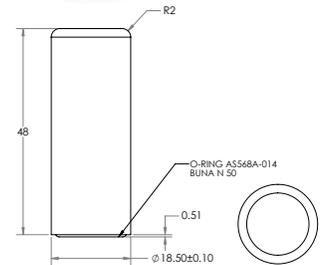


M1600HCT-P-SMA

IRIDIUM/GPS/GLONASS PASSIVE ANTENNA

Ordering Part #: 100-00050-01



Description

The M1600HCT-P-SMA is a high performance antenna designed for the Iridium network and GPS/GLONASS bands, 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, GLONASS and Iridium satellite reception.

Electrical Specifications

Parameter	Design Specifications
Frequency	1616-1626 MHz (Iridium) 1575 MHz (GPS) 1602 MHz (GLONASS)
Polarization	RHCP
Antenna element peak gain	2.8 dBic (Iridium) -3 dBic (GPS) 0 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
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

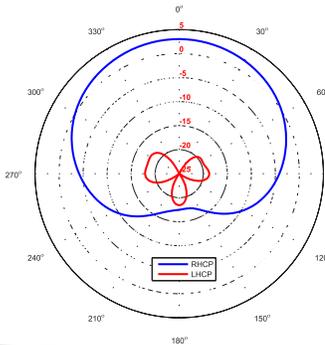
Iridium Network Typical Performance

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

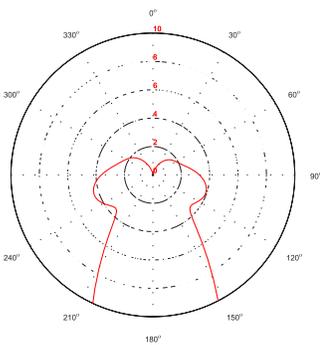
GPS Band Typical Performance

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

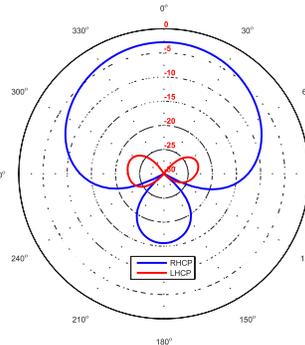
Iridium RHCP Gain



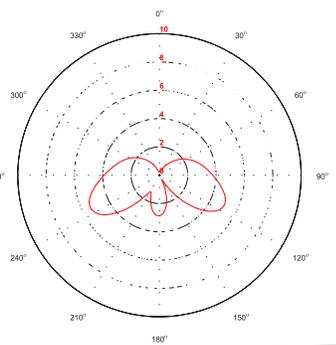
Iridium Axial Ratio



GPS RHCP Gain



GPS Axial Ratio



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