



M1600HCT-P-UFL

IRIDIUM/GPS/GLONASS PASSIVE ANTENNA

Ordering Part #: TBD (custom)

Description

The M1600HCT-P-UFL 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-UFL comes with an integrated coaxial cable with UFL connector. Cable length and connector can be customized upon request. This antenna requires the sale of service ahead of the sale of antennas, such as feasibility studies, prototyping, and chamber measurement. The antenna is mounted on the inside of the applications housing, allowing it to be hidden. The antenna element is custom tuned to the applications enclosure.

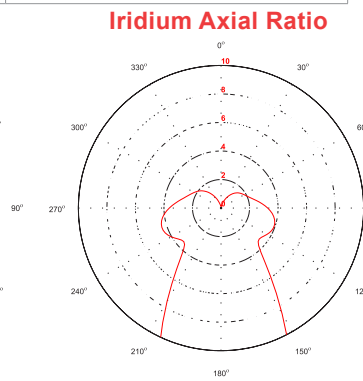
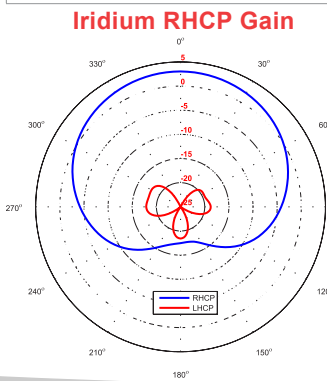
Electrical Specifications*

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
Overall dimensions	33 mm (height) x 13.2 mm (diameter)
Weight	3 grams

* Declared peak gain and reported radiation pattern are intended for a rotationally symmetrical plastic radome.

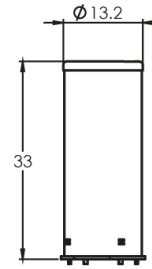
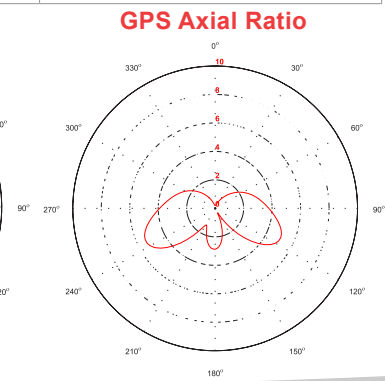
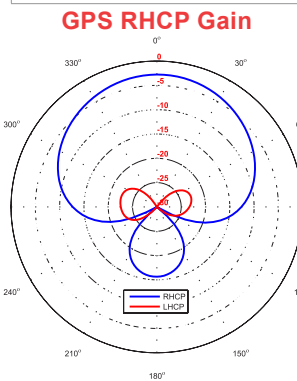
Iridium Network Typical Performance

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)



Mechanical Specifications

dimensions are in mm

Features

- Very low axial ratio
- Iridium/GPS/GLONASS bands
- Ultra light weight - 3 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

