

M1621HCT-P-UFL

IRIDIUM CERTIFIED PASSIVE ANTENNA

Ordering Part #: TBD (custom)

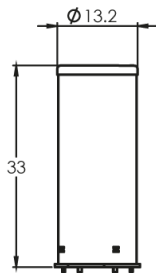


Description

The M1621HCT-P-UFL is a high performance antenna designed for the Iridium network, 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 M1621HCT-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.

Mechanical Specifications

dimensions are in mm



Electrical Specifications*

| Parameter | Design Specifications |
|---------------------------|-------------------------------------|
| Frequency | 1616-1626 MHz |
| Polarization | RHCP |
| Antenna element peak gain | 2.8 dBic (typical) |
| Efficiency | 60% |
| Bandwidth (-1dB) | 20 MHz |
| Axial Ratio | 0.2 dB (typical) / 0.5 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.

Features

- Optimized for Iridium network
- Very low axial ratio
- Ultra light weight - 3 grams
- Ground plane independent
- Custom cable length and connector

Applications

- Vehicle and fleet tracking
- Military & security
- Asset tracking
- Iridium (SBD) Short Burst Data
- Oil & gas industries
- Navigation devices
- Mining equipment
- LBS & M2M applications
- Handheld devices
- Law enforcement

Realized gain plot

Measured at 1621 MHz

