

M1621HCT-22P-MR

High Performance Passive Iridium Antenna
Part #: 100-00042-07



Description

The M1621HCT-22P-MR is a rugged high performance passive antenna designed for Iridium band, and built on Maxtena proprietary Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1621HCT-22P-MR is a screw-on design, featuring an integrated SMA connector. The ultra-light design is rated IP-67 when both mounted and unmounted for added protection. This product is designed for applications requiring high quality reception of the Iridium network.

Electrical Specification

Parameter	Design Specifications
Frequency	1616-1626 MHz (Iridium)
Polarization	RHCP
Antenna element peak gain	-0.5 dBic (typical)
Efficiency	25% (typical)
Bandwidth (-1dB)	20 MHz
Axial Ratio	1 dB (typical) / 1.5 dB (max)
VSWR	1.5 (max)
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C
RF connector	SMA
Overall dimensions	38 mm (height) x 18.5 mm (diameter)

Features

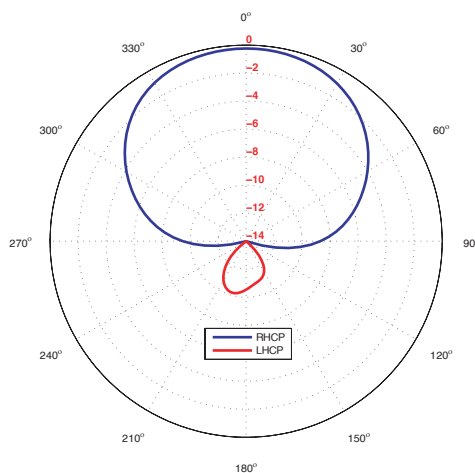
- Iridium band
- Very low axial ratio
- IP-67 mounted and unmounted
- Ultra light weight
- Ground plane independent

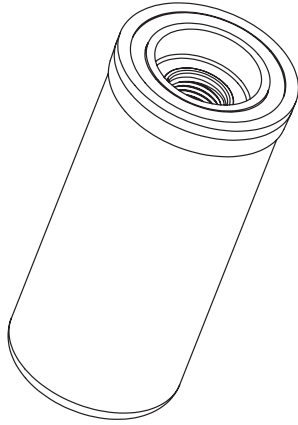
Applications

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

Realized gain plot

Measured at 1575 MHz





1. FREQUENCY (Iridium): 1616-1626 MHz
2. CONNECTOR TYPE: SMA-MALE.
3. HOUSING MATERIAL: ABS/PC.
4. COLOR: BLACK.
5. DUST AND WATER-RESISTANCE: IP67.

6. RECOMMEND A 8.55 MM MOUNTING HEIGHT FOR MOUNTING INTERFACE SEALING AND ELECTRICAL CONNECTION.

7. ASSEMBLY TORQUE SHALL BE NO MORE THAN 8 IN*LB.

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ANTENNA SITTING ON THIS SURFACE	STANDARD SMALL BULKHEAD CON	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM TOLERANCES: ANGULAR: MACH ± .5° BEND ± INTEGR ± 2 ONE PLACE DECIMAL ± 1.0 TWO PLACE DECIMAL ± .50 TOLERANCING PER:  THIRD ANGLE PROJECTION DO NOT SCALE DRAWING
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TITLE: MAXTENA, INC
100-00042-07
M1621HCT-22P-MR

SIZE	DWG. NO.	REV
B	117-00413-07	A
CAGE CODE: 5KQH7	SCALE: NONE	SHEET 1 OF 1

