M1621HCT-GN

HIGH PERFORMANCE IRIDIUM ANTENNA

Part #: 100-00147-01



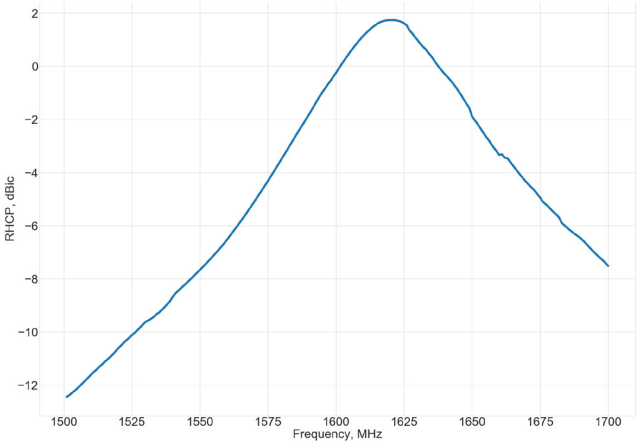
Description

The M1621HCT-GN is a high performance antenna designed for the Iridium network. The antenna is 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-GN is rated IP-67 when mounted for added protection. This product is designed for applications requiring high quality Iridium reception.

Electrical Specifications

Parameter	Specification
Frequency	1621 MHz (Iridium)
Polarization	RHCP
Antenna Element Peak Gain	2.0 dBic (Iridium)
Axial Ratio	0.25 dB (typical)
VSWR	1.5 (max)
Impedance	50 Ω
Operating temp.	from -30˚C to 60˚C
RF Connector	SMA male
Overall dimensions	135 mm (height) x 18.5 mm (diameter)
Weight	45 grams

RHCP Gain vs. Frequency



Mechanical Specifications

dimensions are in mm

Features

- Very low axial ratio
- IP-67 mounted
- Ultra lightweight - 45 grams
- Ground plane independent

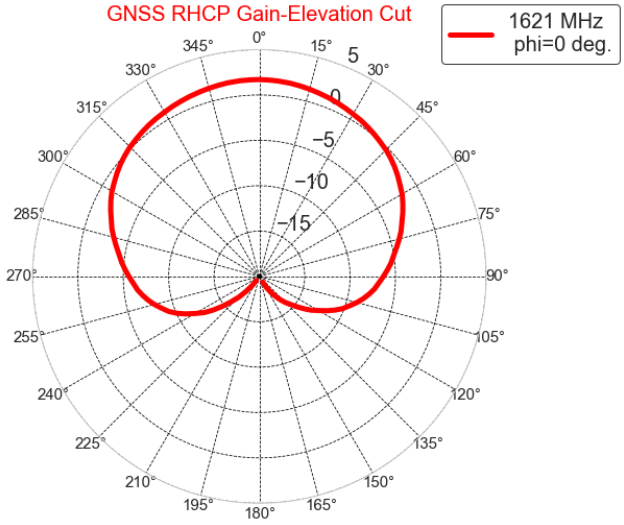
Applications

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

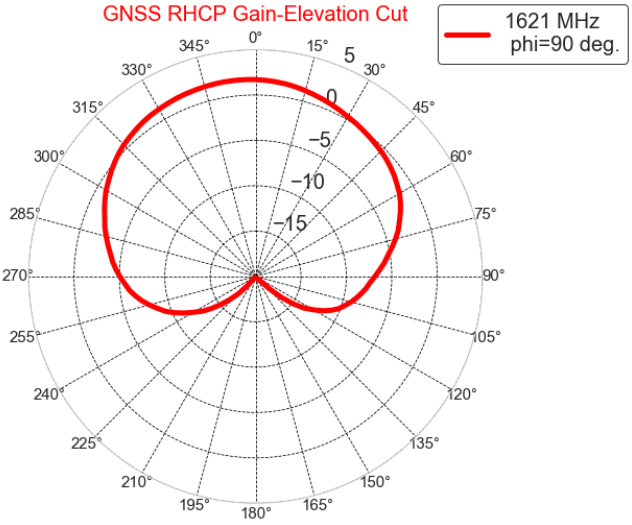
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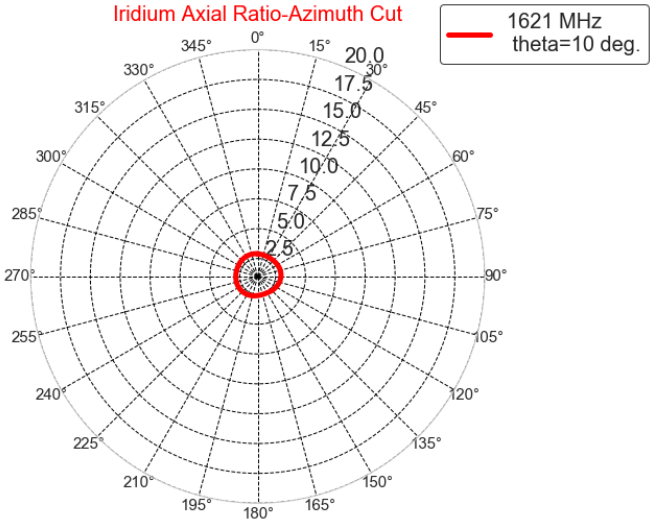
GNSS RHCP Gain-Elevation Cut



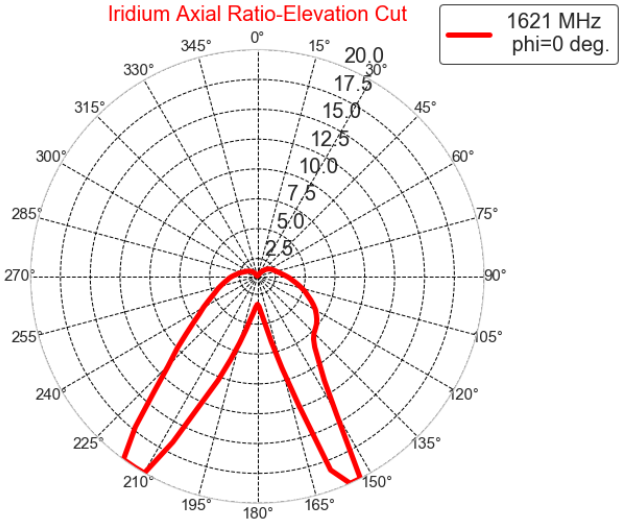
GNSS RHCP Gain-Elevation Cut



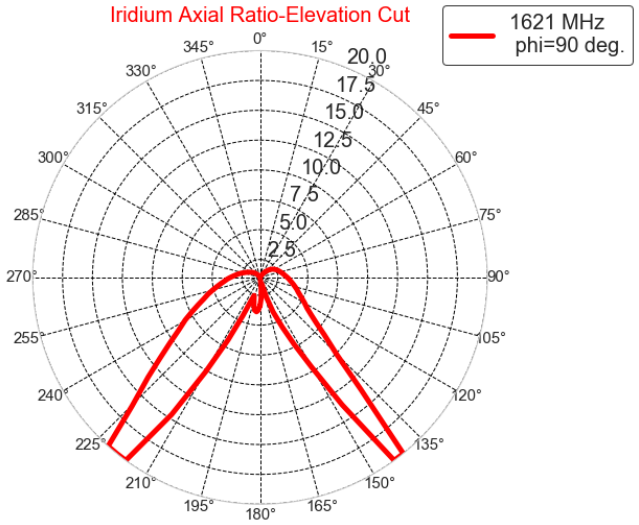
Iridium Axial Ratio-Azimuth Cut



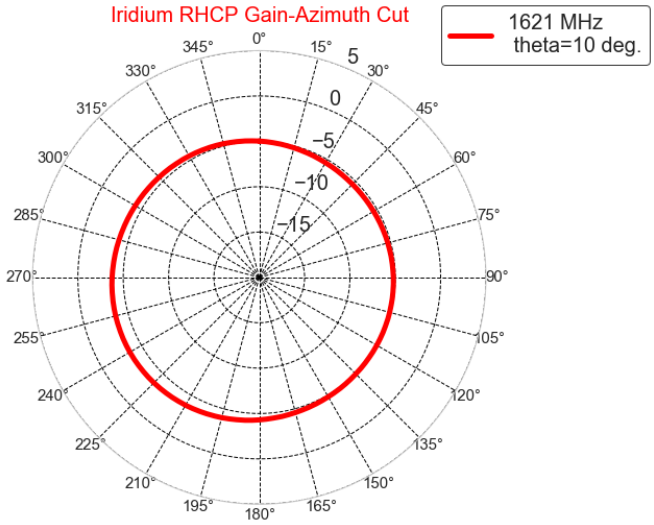
Iridium Axial Ratio-Elevation Cut



Iridium Axial Ratio-Elevation Cut



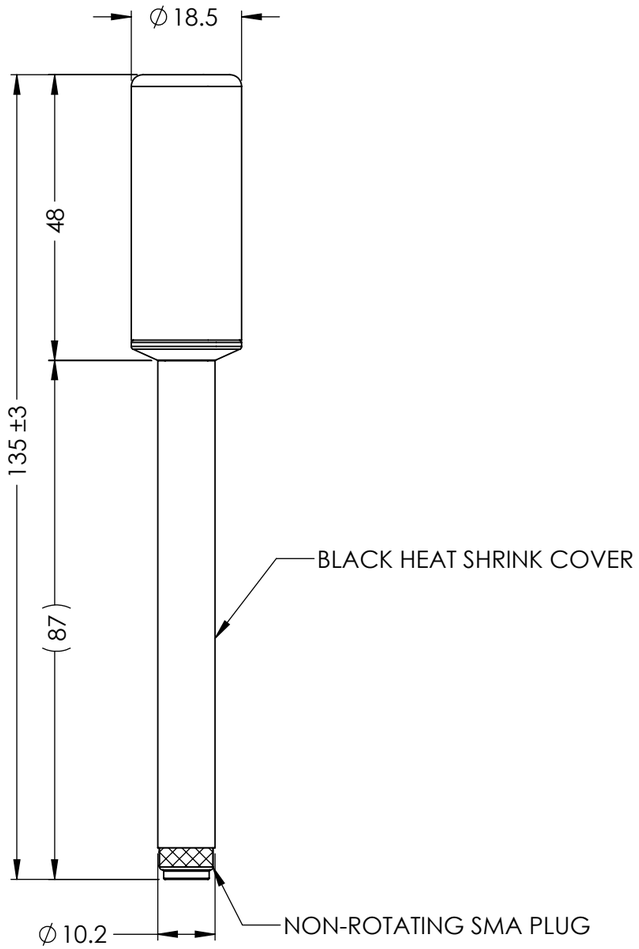
Iridium RHCP Gain-Azimuth Cut

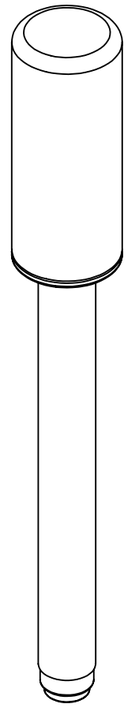


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DRAWING REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-05-05	MP





NOTES:
1. RADOME MATERIAL: BLACK PC/ABS .
2. GOOSENECK MATERIAL: STAINLESS STEEL WITH BLACK COATING.
3. RF CONNECTOR TYPE: SMA PLUG NON-ROTATING.
4. IP RATING: IP67

ITEM 100-00147-01 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-05-05	MP

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UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MM
TOLERANCES:
FRACTIONAL ±
ANGULAR: MACH ± .5° BEND ±
ONE PLACE DECIMAL ± 1.0
TWO PLACE DECIMAL ± .50
INTERPRET GEOMETRIC TOLERANCING PER:

THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

	NAME	DATE
DRAWN	MP	2021-05-05
CHECKED	ZX	2021-05-07
ENG APPR.	NPC	2021-05-13
MFG APPR.		
Q.A.		

CAD MAINTAINED. CHANGES SHALL BE INCORPORATED BY THE DESIGN ACTIVITY.

MAXTENA, INC

TITLE:
100-00147-01
M1621HCT-GN

SIZE	DWG. NO.	REV
B	117-00442-01	A

CAGE CODE: 5KQH7 | SCALE: NONE | SHEET 1 OF 1