

M1610HCT-GN

GPS/GLONASS/IRIDIUM PASSIVE ANTENNA

Part #: 100-00149-01

Description

The M1610HCT-GN is a high performance antenna designed for the Iridium network and GPS/Glonass bands. 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 M1610HCT-GN is rated IP-67 when mounted for added protection. This product is designed for applications requiring high quality Iridium, GPS and Glonass reception.

Electrical Specifications

Parameter	Specification
Frequency	1575 MHz (GPS) 1602 MHz (Glonass) 1621 MHz (Iridium)
Polarization	RHCP
Antenna Element Peak Gain	-3.8 dBic (GPS) -1.7 dBic (Glonass) 2.0 dBic (Iridium)
Axial Ratio	0.2 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



Mechanical Specifications

dimensions are in mm

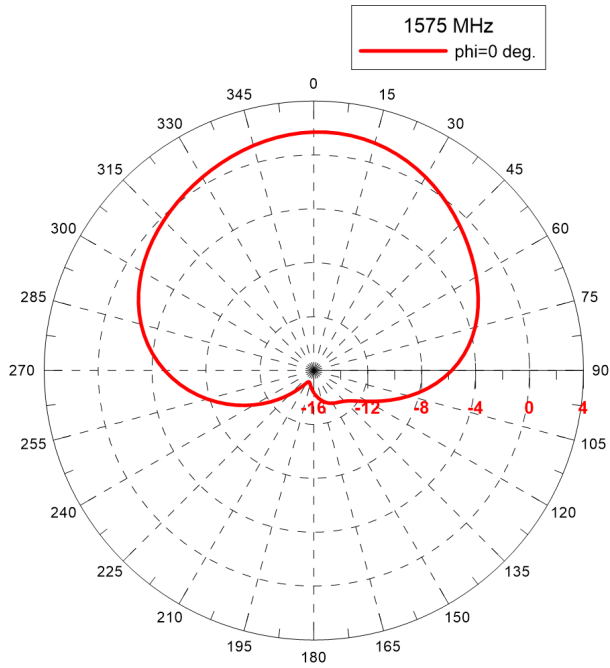
Features

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

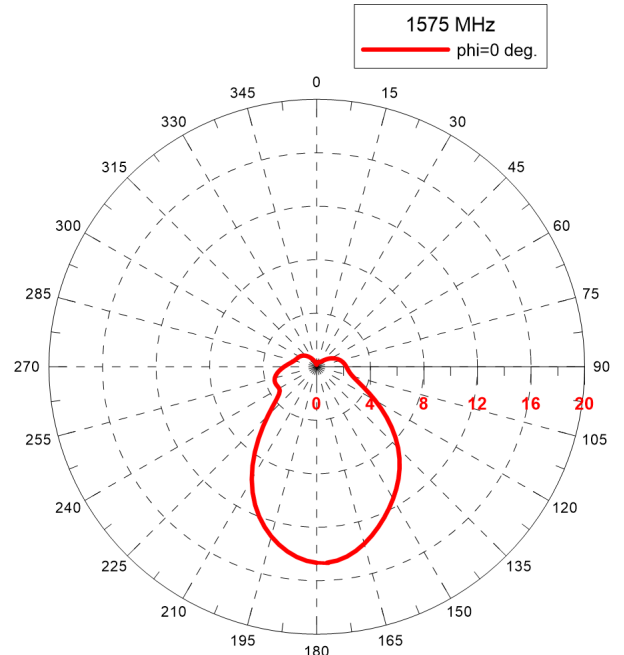
Applications

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

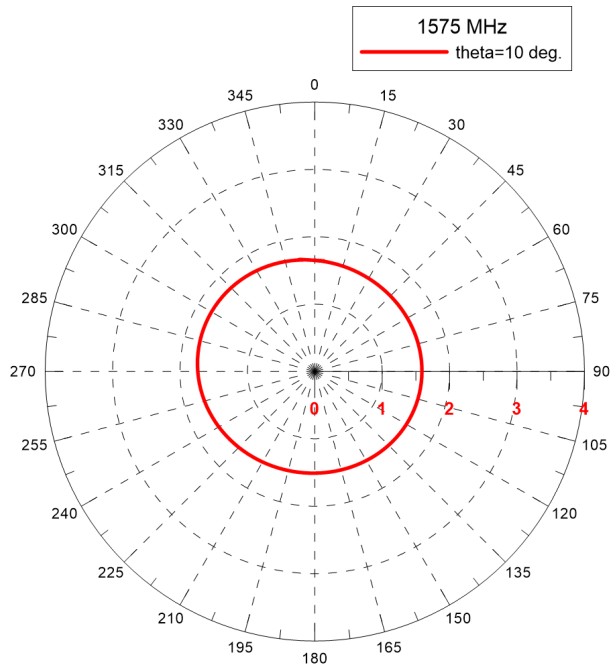
GPS RHCP Gain-Elevation cut



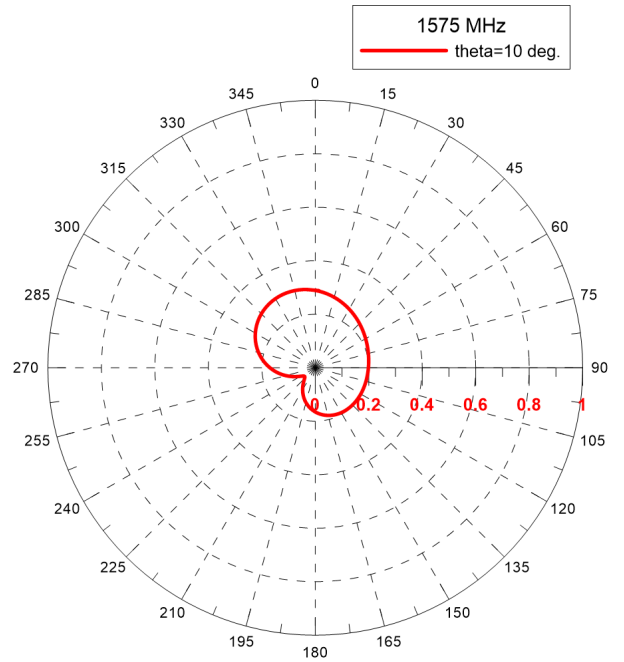
GPS Axial Ratio-Elevation cut



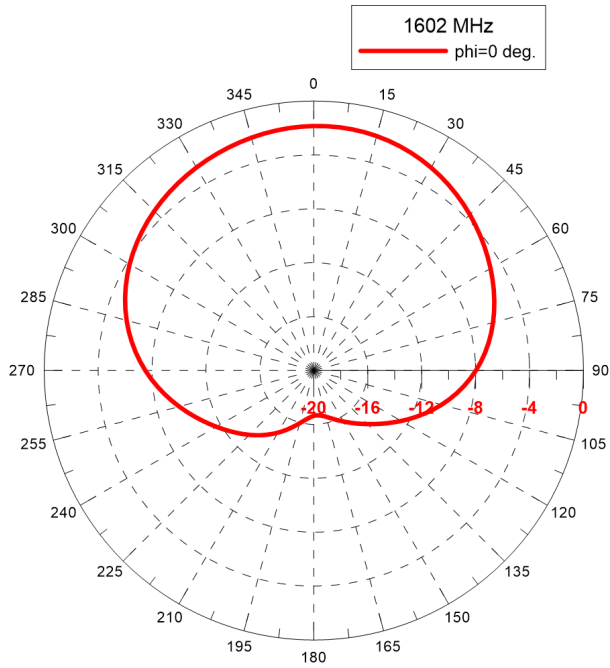
GPS RHCP Gain-Azimuth cut



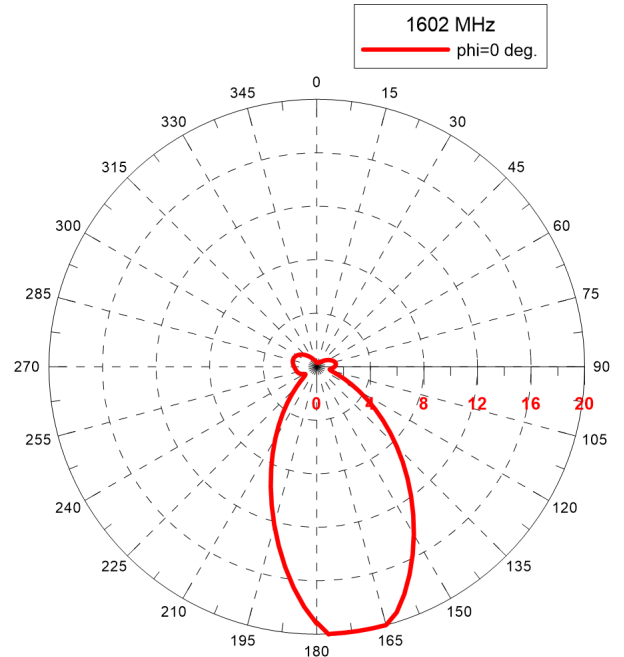
GPS Axial Ratio-Azimuth cut



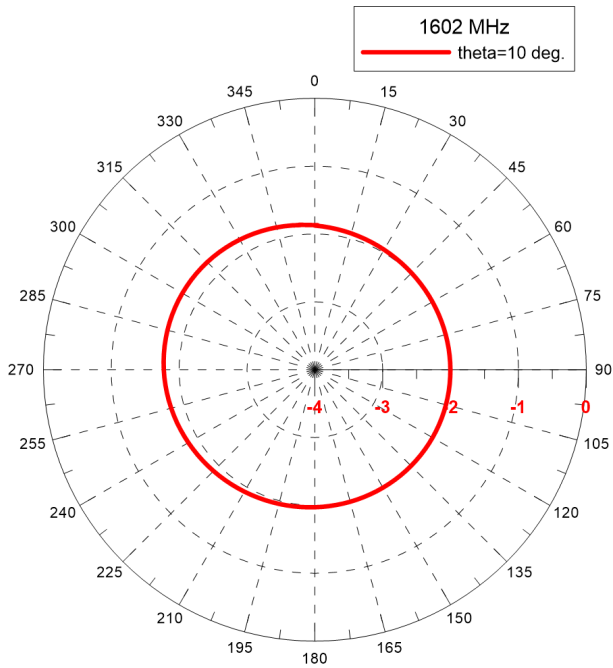
Glonass RHCP Gain-Elevation cut



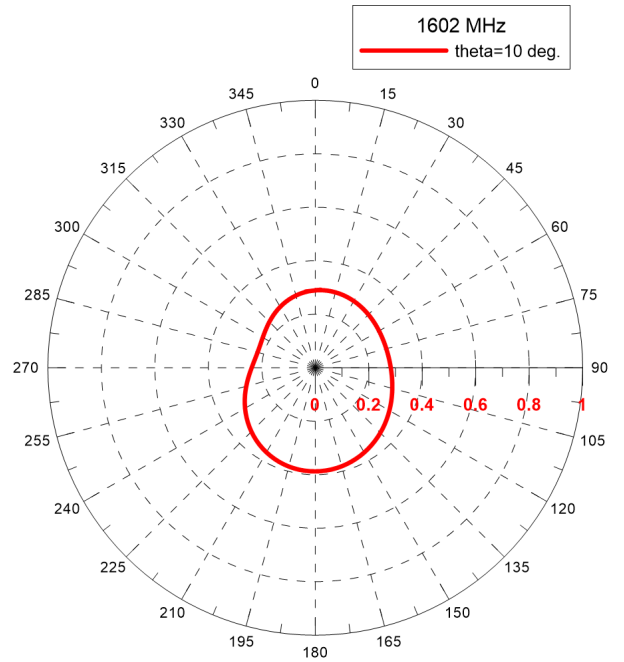
Glonass Axial Ratio-Elevation cut



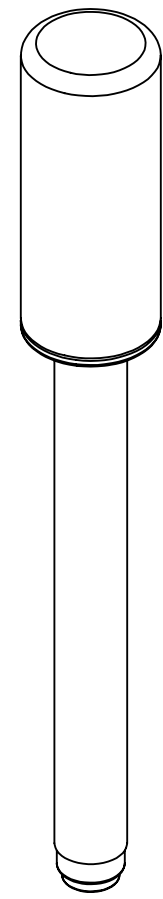
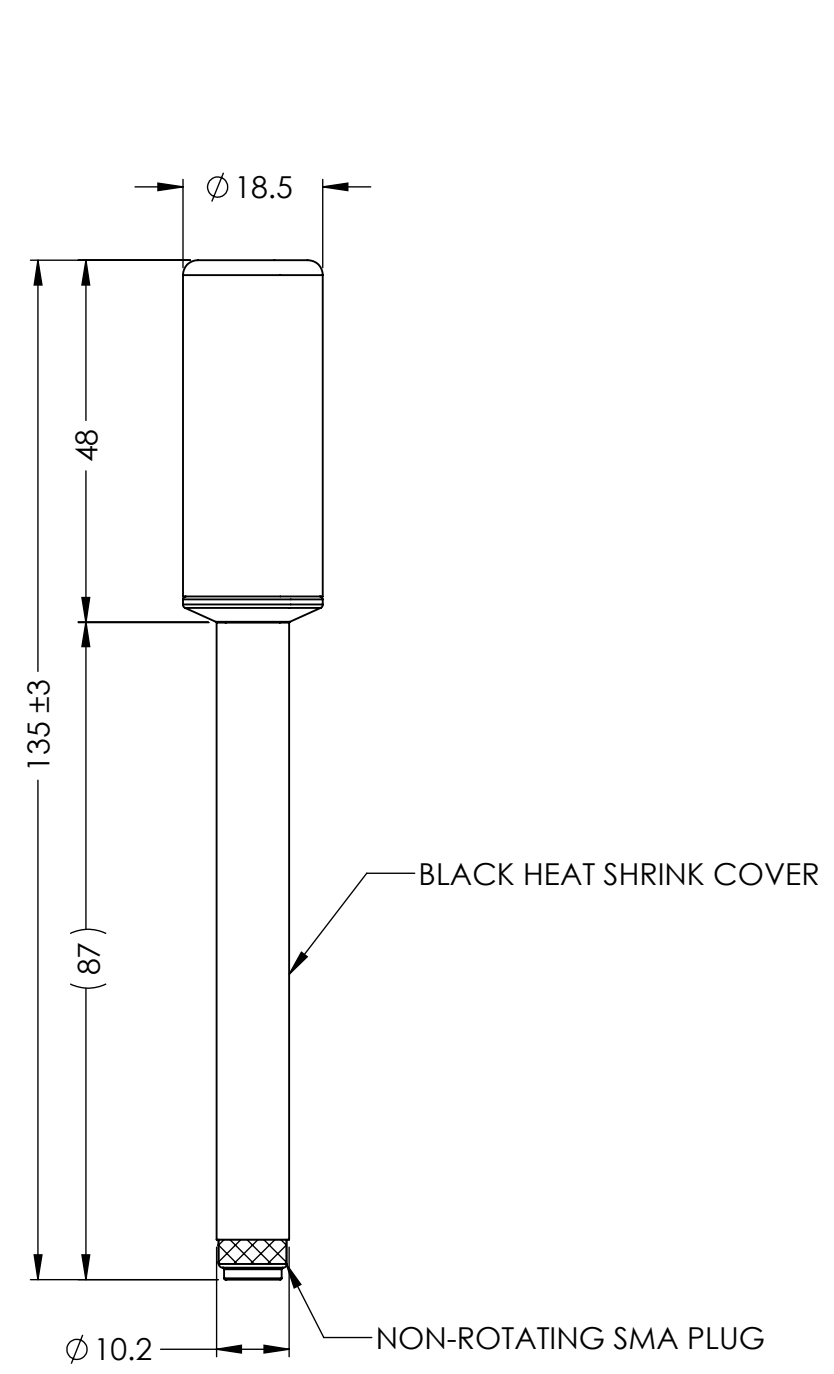
Glonass RHCP Gain-Azimuth cut



Glonass Axial Ratio-Azimuth cut



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 100-00149-01 REVISION HISTORY			
REV	DESCRIPTION	DATE	BY
A	INITIAL RELEASE	2021-05-05	MP

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TOLERANCES:	CHECKED ZX	2021-05-07
FRACTIONAL ±	ENG APPR. NPC	2021-05-13
ANGULAR: MACH ± .5° BEND ±	MFG APPR.	
ONE PLACE DECIMAL ± 1.0	Q.A.	
TWO PLACE DECIMAL ± .50		
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SIZE B	DWG. NO. 117-00444-01	REV A
CAGE CODE: 5KQH7	SCALE: NONE	SHEET 1 OF 1