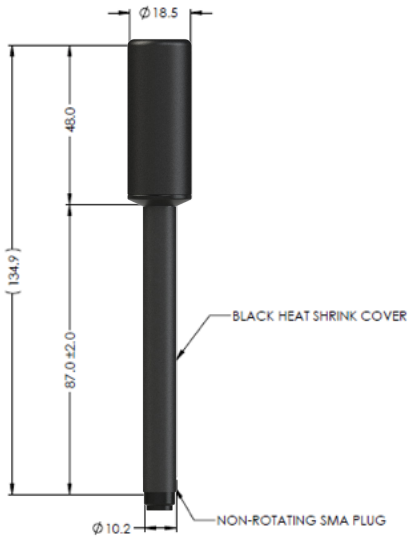
M1580HCT-GN

GPS/BEIDOU/GLONASS PASSIVE ANTENNA

Part #: 100-00151-01



Mechanical Specifications

dimensions are in mm

Description

The M1580HCT-GN is a high performance antenna designed for the GPS/Beidou/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 M1580HCT-GN is rated IP-67 when mounted for added protection. This product is designed for applications requiring high quality GPS/Beidou/Glonass reception.

Electrical Specifications

Parameter	Specification
Frequency	1561 MHz (Beidou) 1575 MHz (GPS) 1602 MHz (Glonass)
Polarization	RHCP
Antenna Element Peak Gain	1.3 dBic (Beidou) 1.8 dBic (GPS) -1.7 dBic (Glonass)
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

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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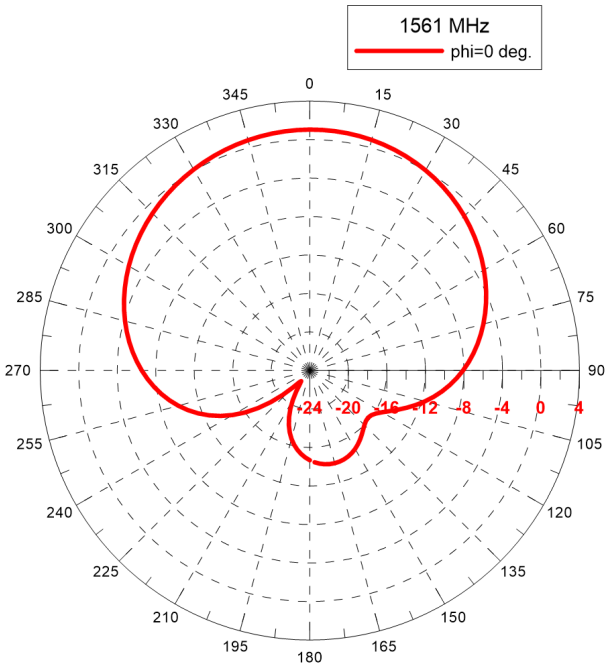
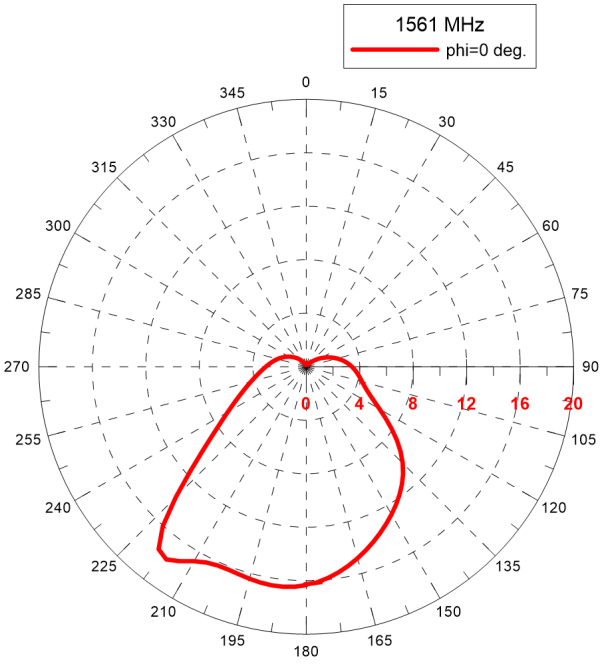
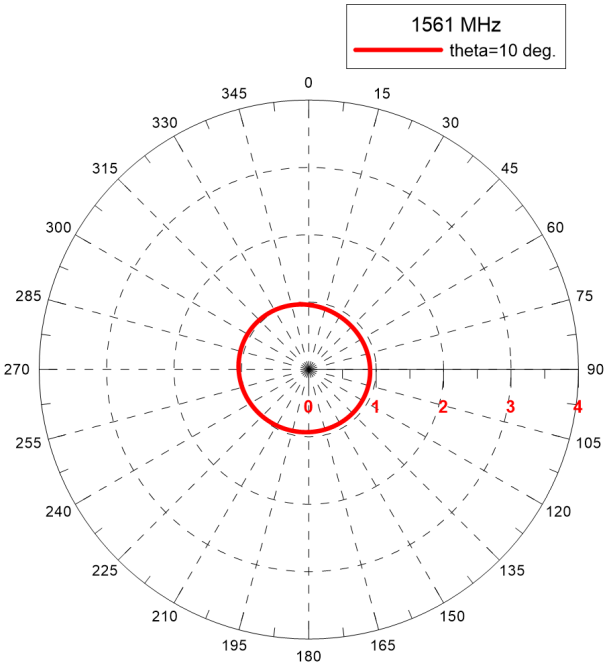
Beidou RHCP Gain-Elevation cut



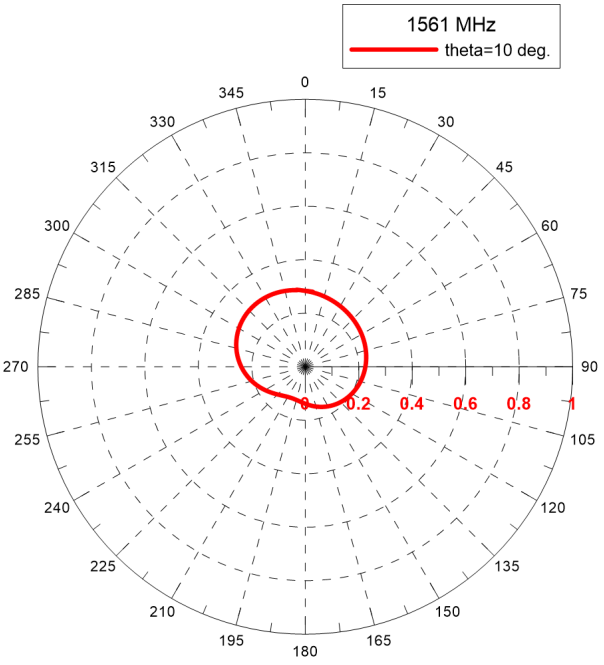
Beidou Axial Ratio-Elevation cut



Beidou RHCP Gain-Azimuth cut



Beidou Axial Ratio-Azimuth cut



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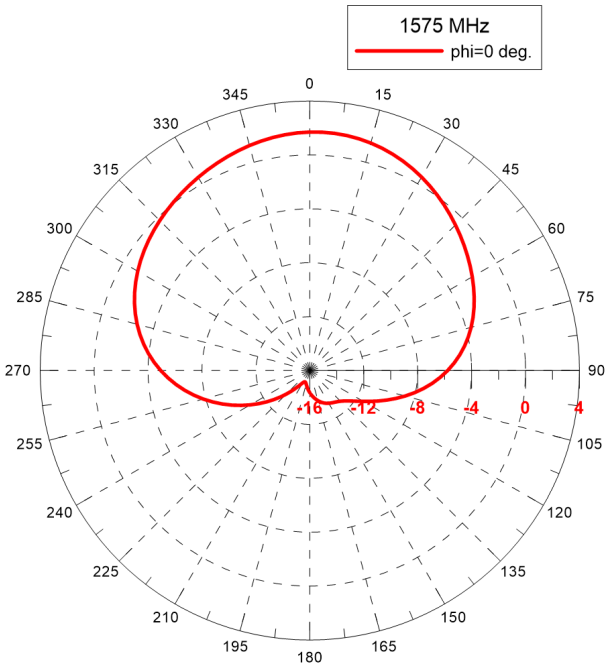
GPS RHCP Gain-Elevation cut



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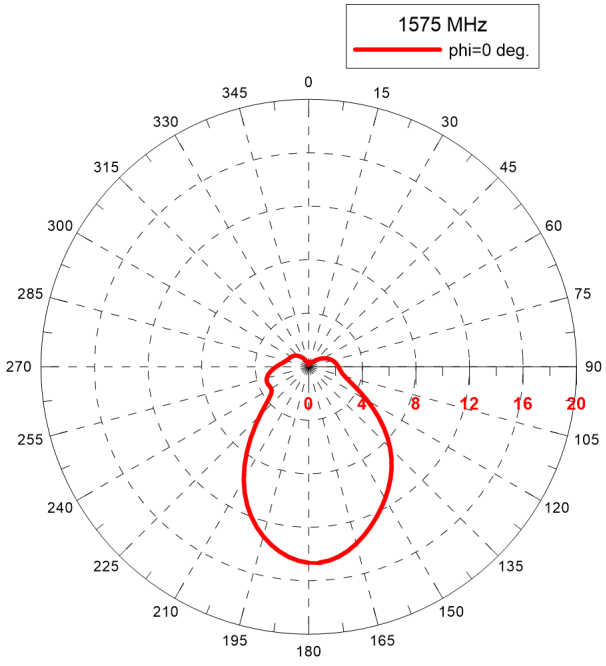
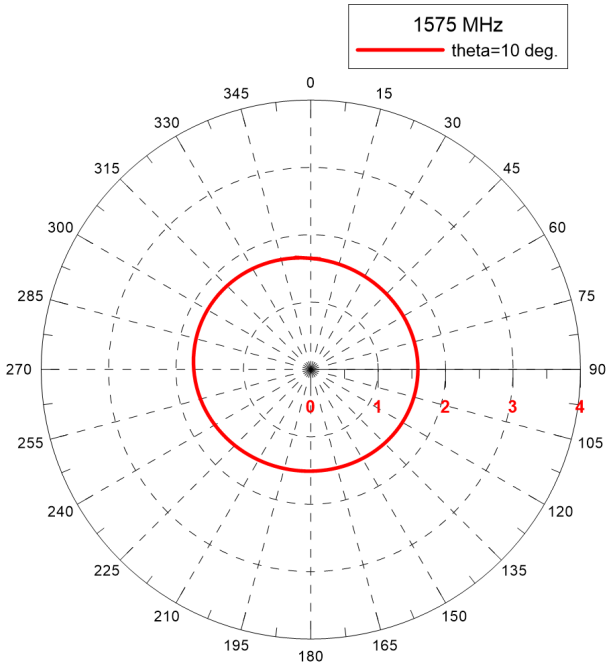


GPS RHCP Gain-Azimuth cut



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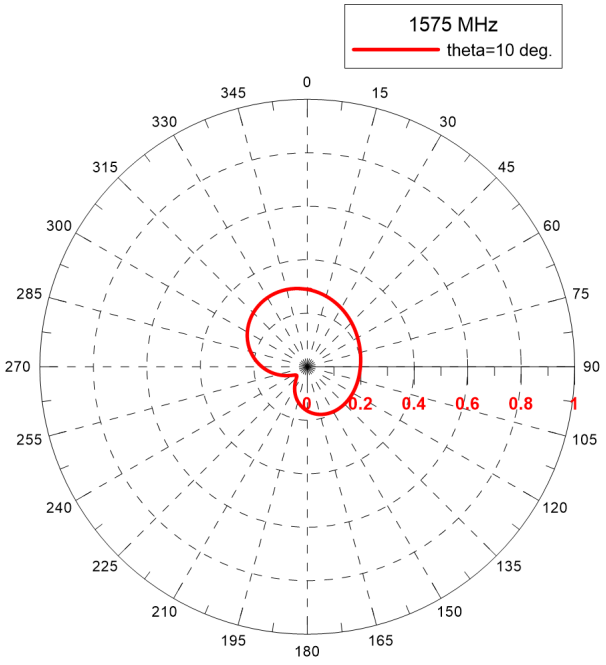

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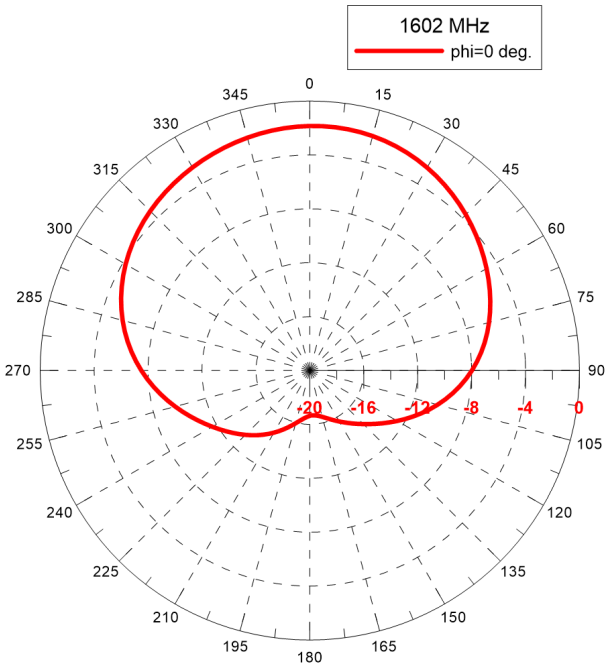
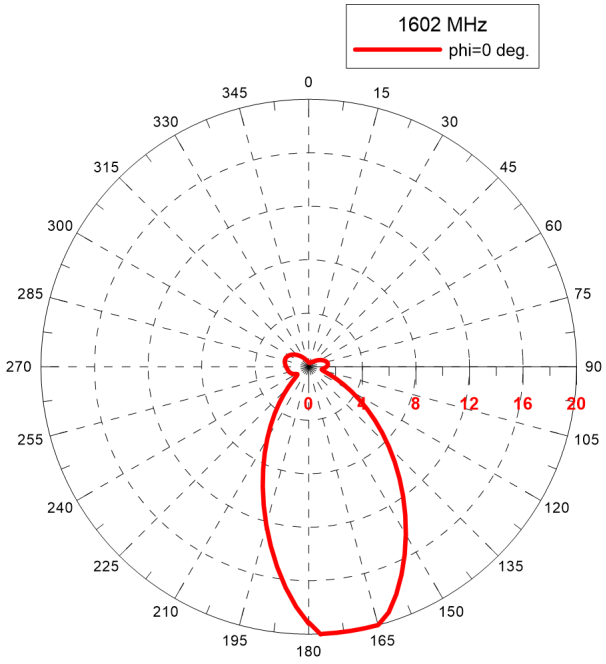
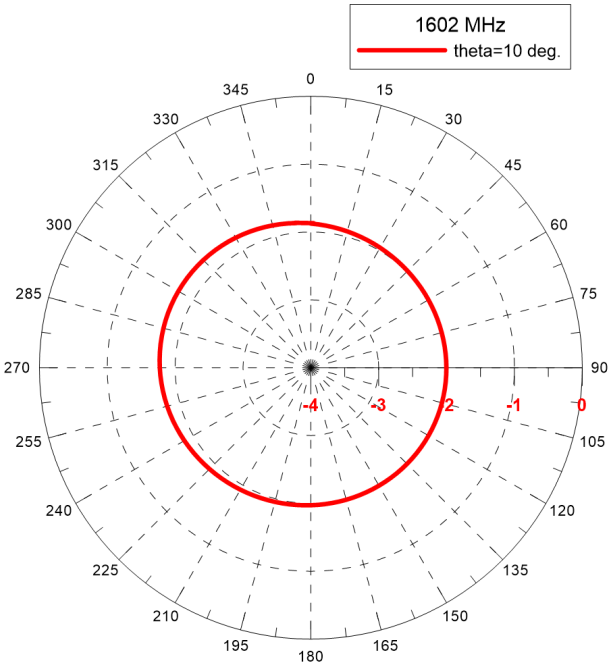
Glonass RHCP Gain-Elevation cut



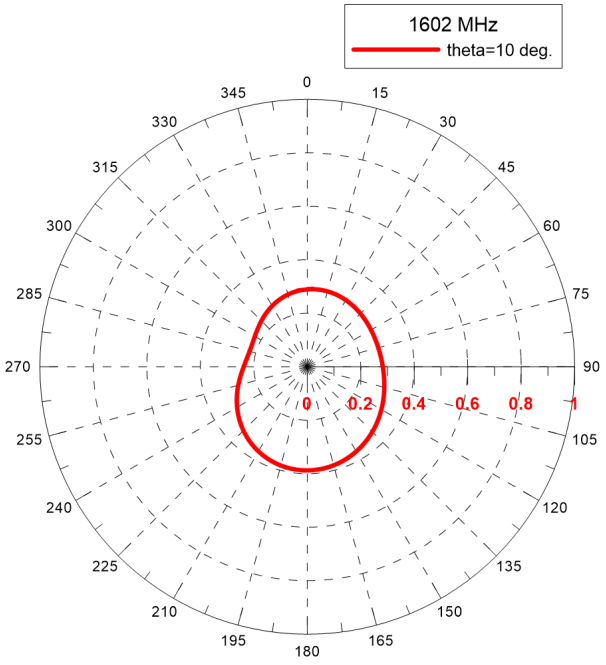
Glonass Axial Ratio-Elevation cut



Glonass RHCP Gain-Azimuth cut



Glonass Axial Ratio-Azimuth cut



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