

# M1580HCT-P-SMA

GPS/BEIDOU/GLONASS PASSIVE ANTENNA

Part #: 100-00180-01



## Description

The M1580HCT-P-SMA is a high performance antenna designed for the GPS/Beidou/Glonass frequency 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-P-SMA features a very rugged housing with an integrated SMA male connector and is rated IP-67 when mounted. This product is designed for applications requiring high quality GPS/Beidou/Glonass reception and is ideal for handheld and body worn applications. The very low axial ratio allows the antenna to have outstanding multipath rejection and operate with precision in the most challenging locations.

## 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 $\Omega$
Operating temp.	from -40°C to +85°C
RF Connector	SMA male

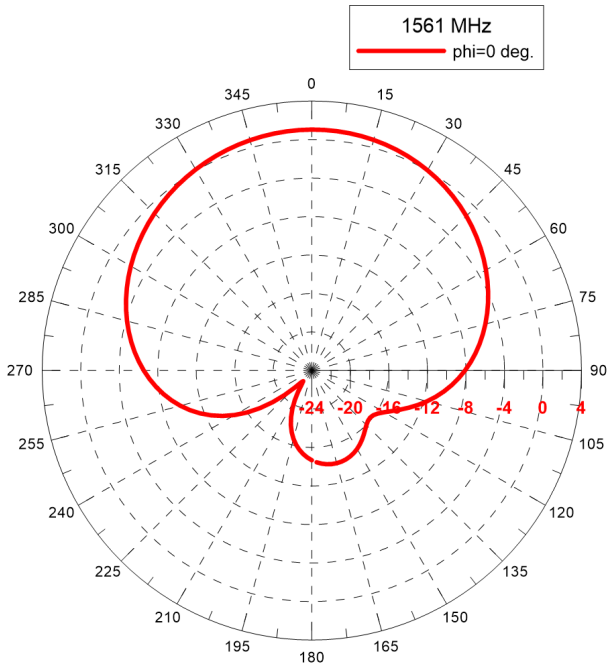
## Features

- Very low axial ratio
- Superb multipath rejection
- IP-67 Rated
- Ground plane independent
- Omni Directional
- High Gain & Efficiency

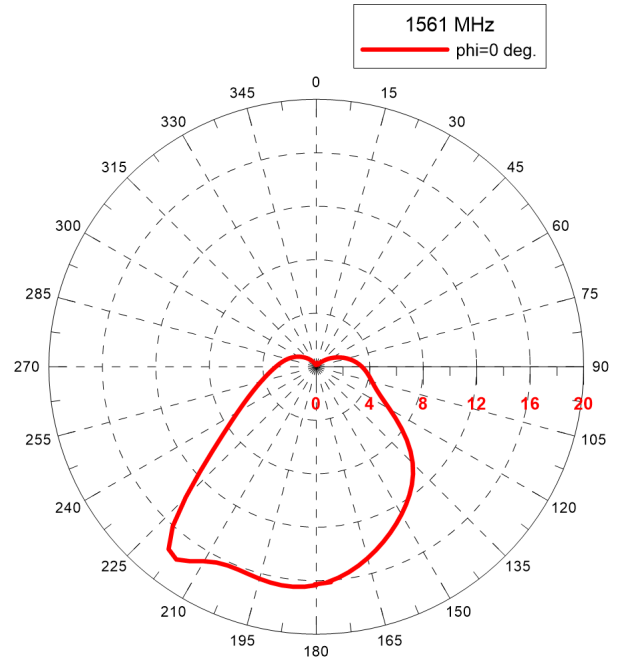
## Applications

- Handheld Devices
- Military Radios & Manpacks
- Asset tracking
- Security & Surveillance
- IOT applications
- Drones & UAV
- Navigation devices
- Marine

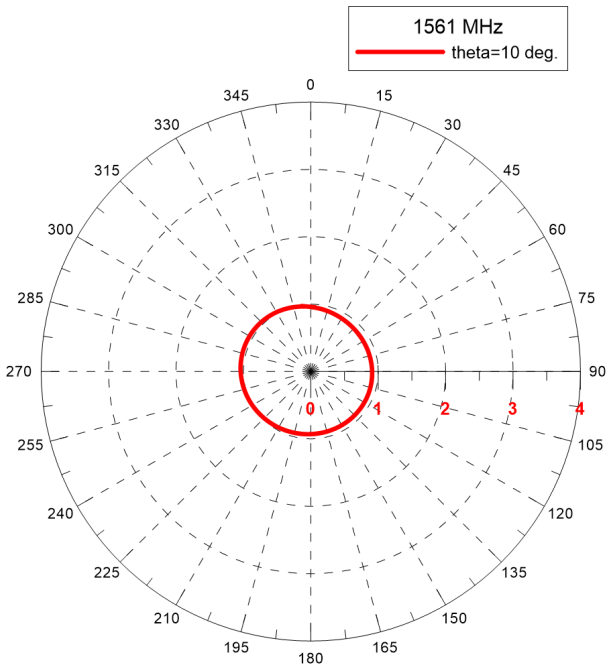
Beidou RHCP Gain-Elevation cut



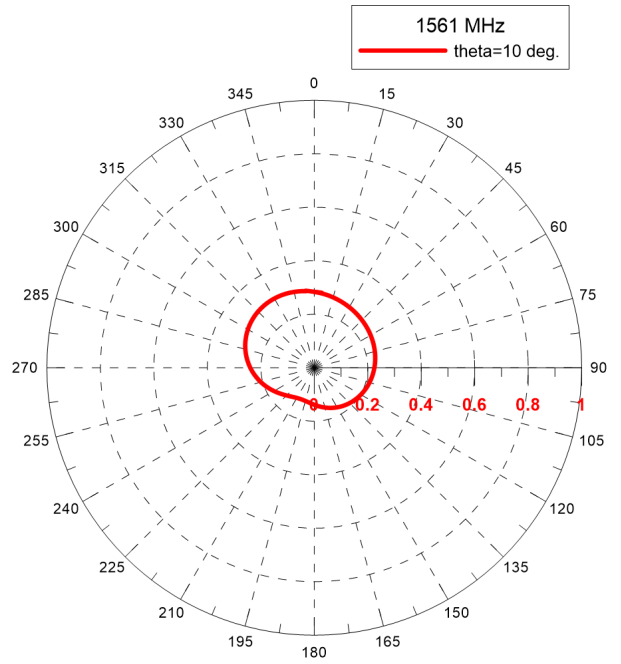
Beidou Axial Ratio-Elevation cut



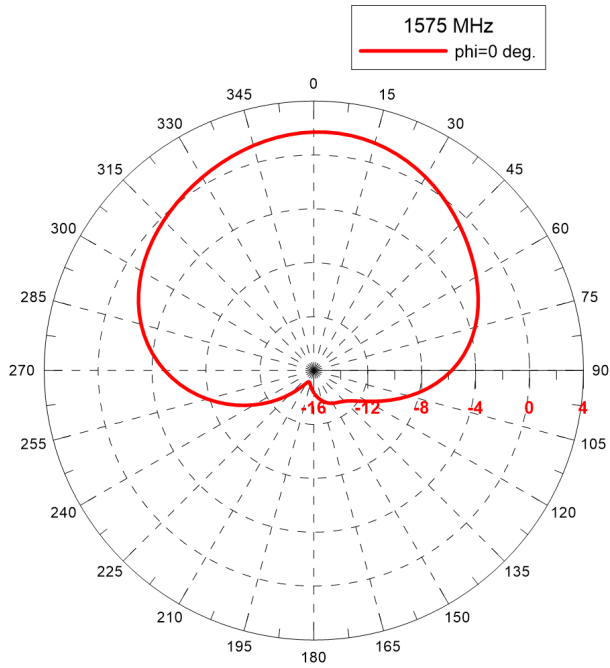
Beidou RHCP Gain-Azimuth cut



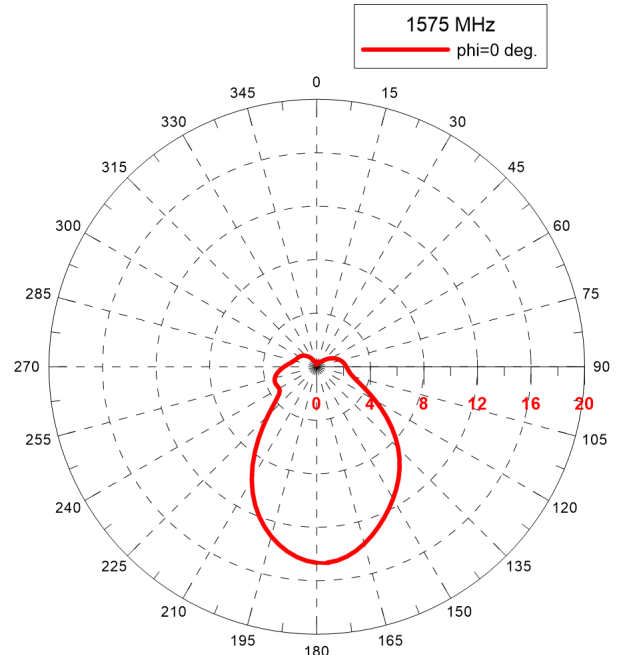
Beidou Axial Ratio-Azimuth cut



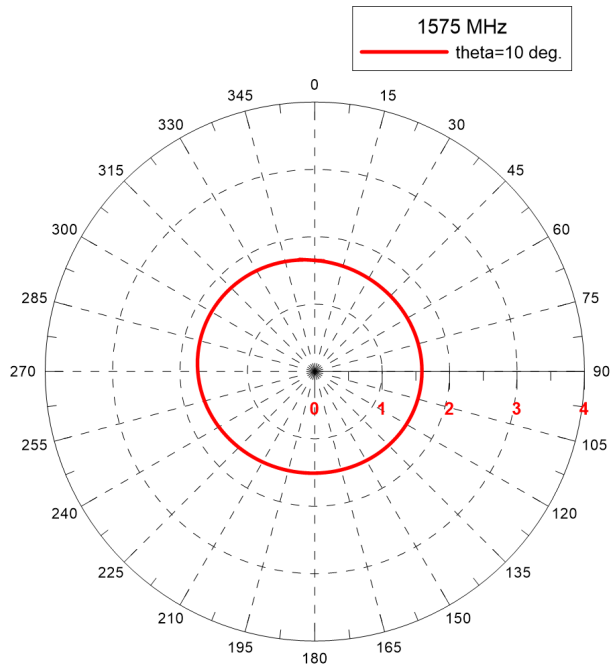
GPS RHCP Gain-Elevation cut



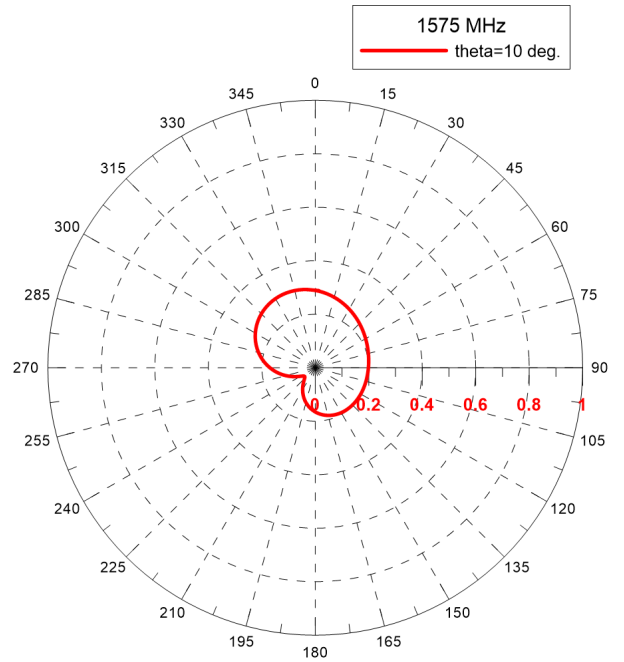
GPS Axial Ratio-Elevation cut



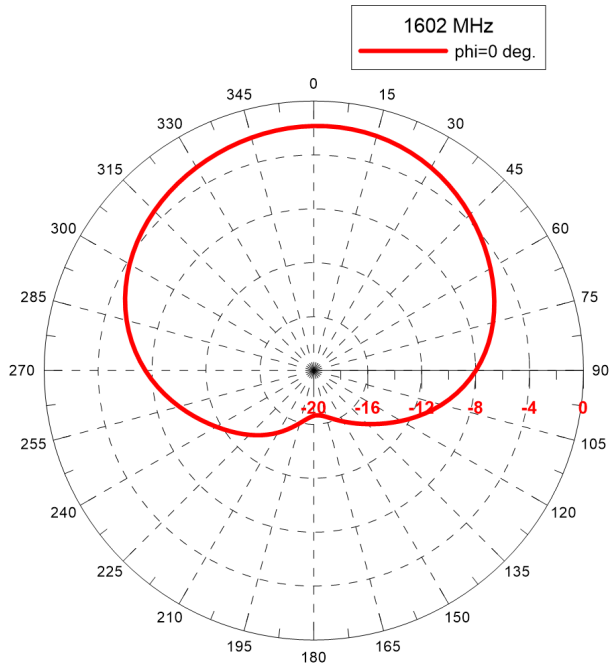
GPS RHCP Gain-Azimuth cut



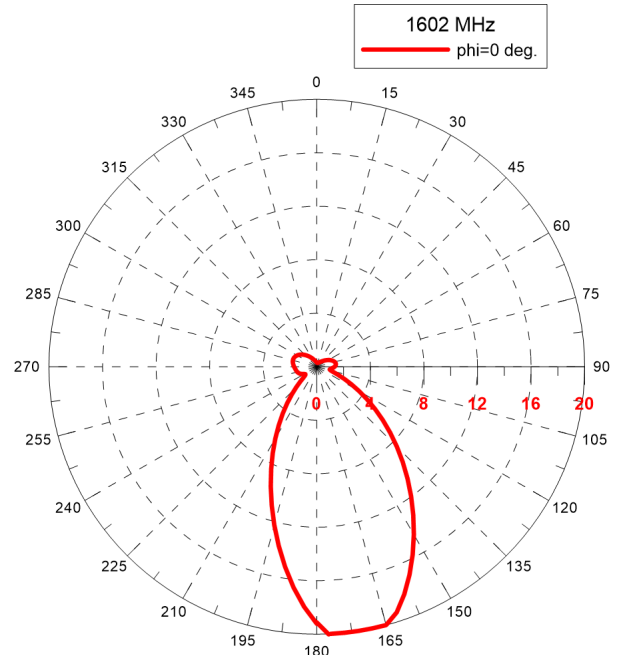
GPS Axial Ratio-Azimuth cut



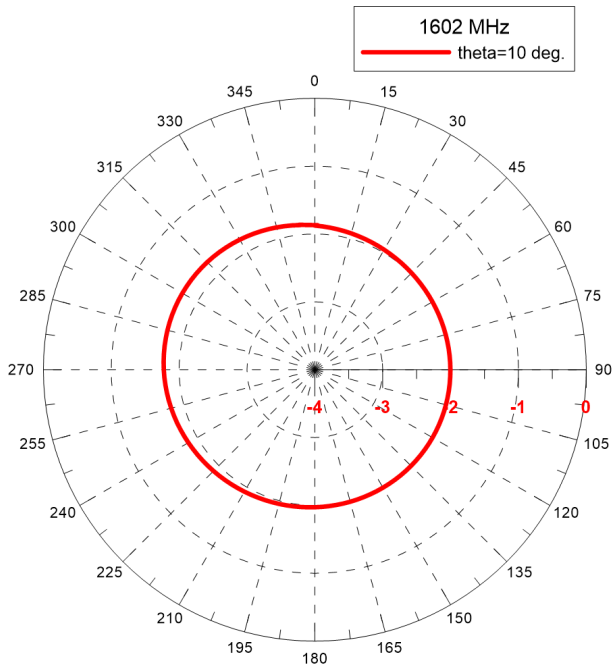
**Glonass RHCP Gain-Elevation cut**



**Glonass Axial Ratio-Elevation cut**



**Glonass RHCP Gain-Azimuth cut**



**Glonass Axial Ratio-Azimuth cut**

