

Part #: 100-00151-01



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.



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



Mechanical Specifications dimensions are in mm

## **Features**

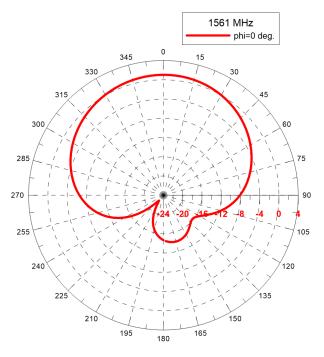
- · Very low axial ratio
- IP-67 mounted
- Ultra lightweight 45 grams
- Ground plane independent

#### **Applications**

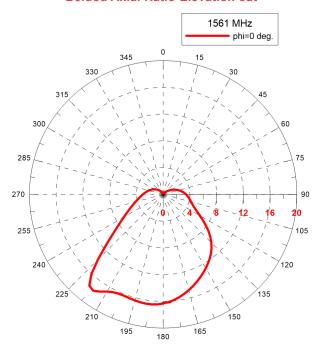
- · Vehicle and fleet tracking
- · Military & security
- Asset tracking
- OII & gas industries
- · Navigation devices
- Mining equipment
- LBS & M2M applications
- · Handheld devices
- Law enforcement



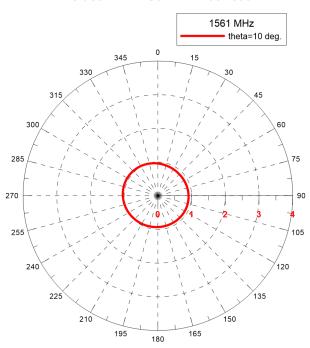
## **Beidou RHCP Gain-Elevation cut**



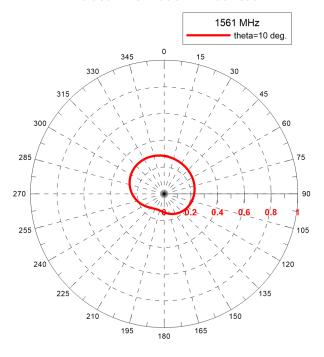
## **Beidou Axial Ratio-Elevation cut**



#### **Beidou RHCP Gain-Azimuth cut**

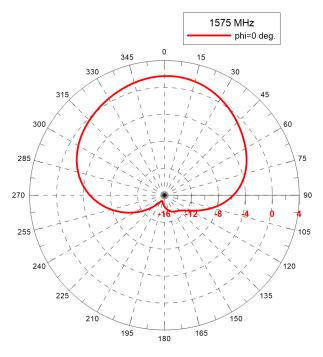


#### **Beidou Axial Ratio-Azimuth cut**

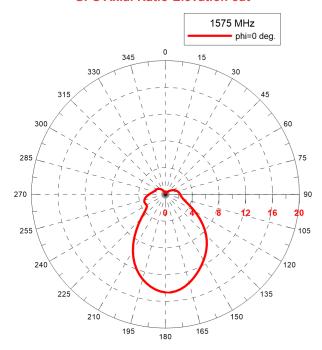




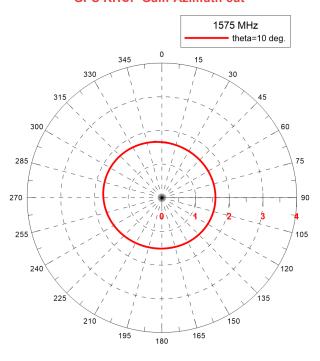
## **GPS RHCP Gain-Elevation cut**



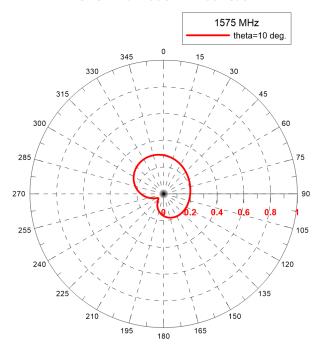
## **GPS Axial Ratio-Elevation cut**



## **GPS RHCP Gain-Azimuth cut**

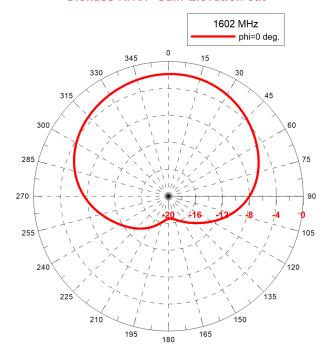


#### **GPS Axial Ratio-Azimuth cut**

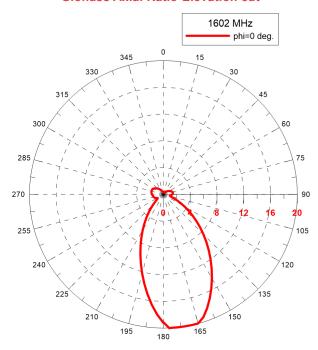




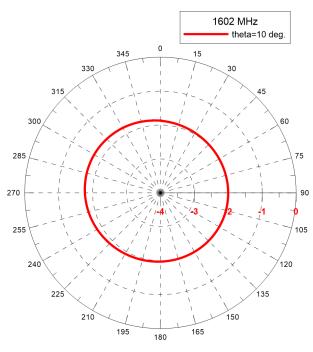
## **Glonass RHCP Gain-Elevation cut**



# **Glonass Axial Ratio-Elevation cut**



#### **Glonass RHCP Gain-Azimuth cut**



#### **Glonass Axial Ratio-Azimuth cut**

