

Part #: 100-00146-01

Description

The M1575HCT-GN is a high performance antenna designed for the GPS band. 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 M1575HCT-GN is rated IP-67 when mounted for added protection. This product is designed for applications requiring high quality GPS reception.



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

Electrical Specifications

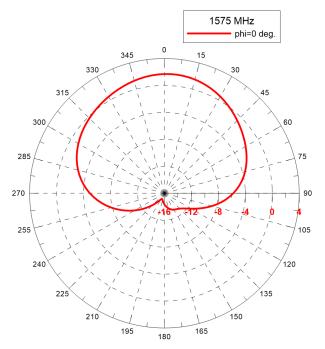
| Parameter | Specification |
|---------------------------|--------------------------------------|
| Frequency | 1575 MHz (GPS) |
| Polarization | RHCP |
| Antenna Element Peak Gain | 1.8 dBic (GPS) |
| Axial Ratio | 0.2 dB (typical) |
| VSWR | 1.5 (max) |
| Impedance | 50 Ω |
| Operating temp. | from -30°C to 60°C |
| RF Connector | SMA male |
| Overall dimensions | 135 mm (height) x 18.5 mm (diameter) |
| Weight | 45 grams |



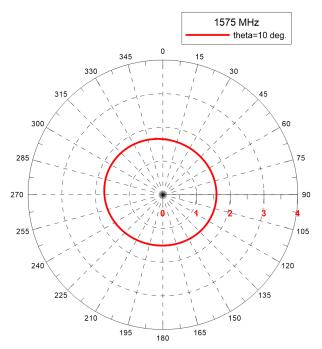
Maxtena Inc. 7361 Calhoun Place, Suite 102 Rockville, MD 20855 1-877-629-8362 info@maxtena.com

www.maxtena.com

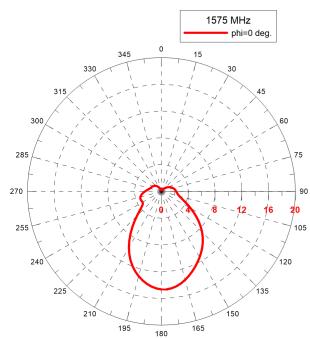
GPS RHCP Gain-Elevation cut



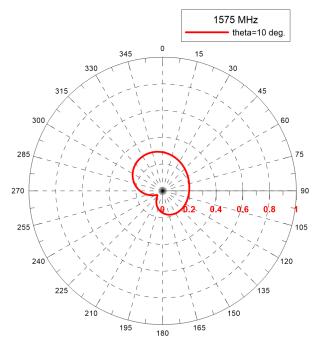
GPS RHCP Gain-Azimuth cut



GPS Axial Ratio-Elevation cut



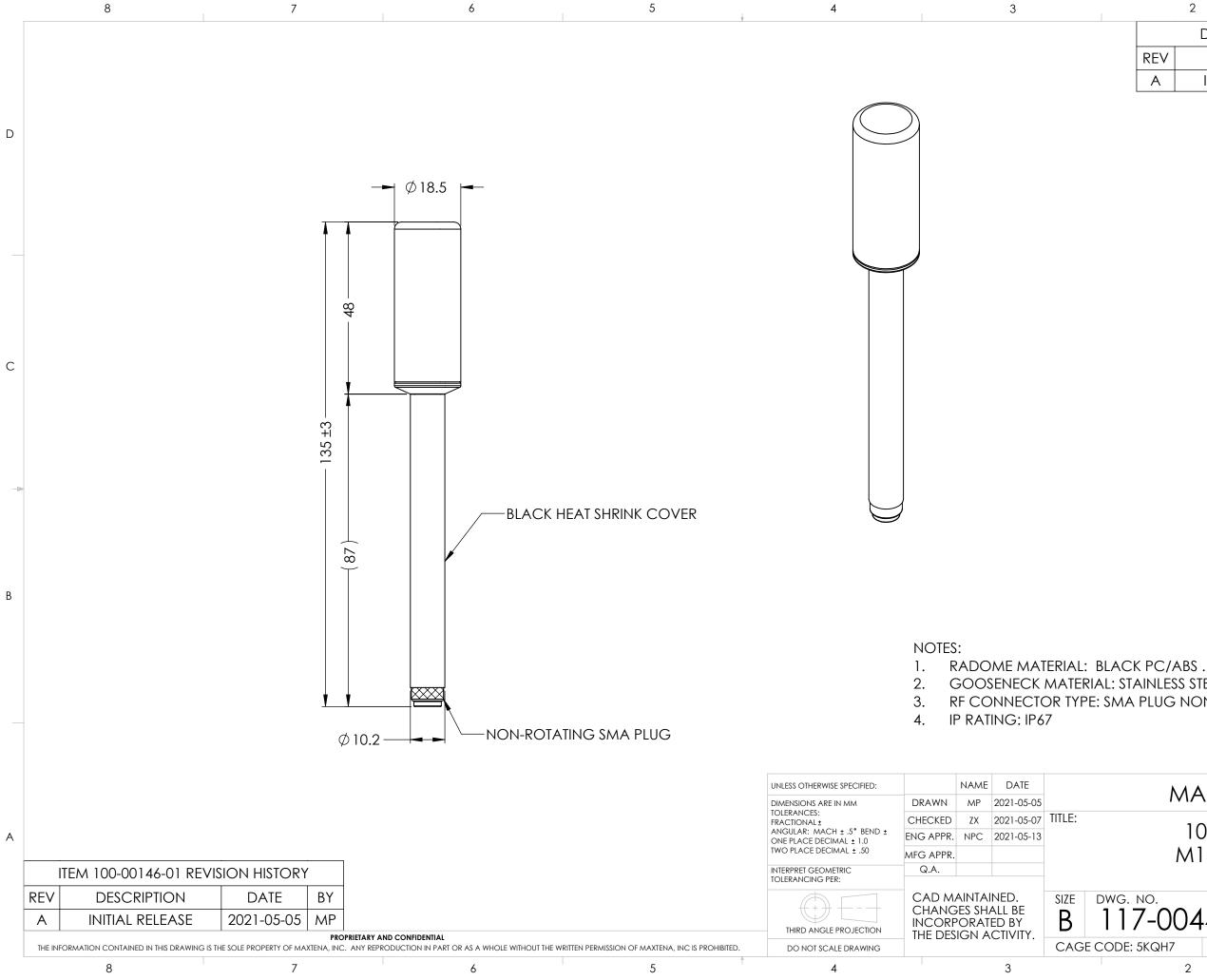
GPS Axial Ratio-Azimuth cut





Maxtena Inc. 7361 Calhoun Place, Suite 102 Rockville, MD 20855 1-877-629-8362 info@maxtena.com

www.maxtena.com



| 2 | | 1 | | |
|--------------------------|--------------|-----|------------|----|
| DRAWING REVISION HISTORY | | | | |
| REV | DESCRIPTIC | ЛС | DATE | BY |
| Α | INITIAL RELE | ASE | 2021-05-05 | MP |

D

С

А

GOOSENECK MATERIAL: STAINLESS STEEL WITH BLACK COATING. RF CONNECTOR TYPE: SMA PLUG NON-ROTATING.

MAXTENA, INC

100-00146-01 M1575HCT-GN

| vg. no. 17-004 | REV A | | |
|-------------------|-------------|--------------|--|
| DDE: 5KQH7 | SCALE: NONE | SHEET 1 OF 1 | |
| 2 | | 1 | |