## Description

The M1575HCT－22－P is a high performance passive antenna designed for the GPS L1 band，and built on proprietary Helicore ${ }^{\circledR}$ technology．This technology provides exceptional pattern control，polarization purity and high efficiency in a very compact form factor．The M1575HCT－22－P is designed for embedded ap－ plications and features an integrated 3 －pin connector．This product is designed for applications requiring high quality reception of GPS signals．The ultra light design weighs only 2 grams making this antenna ideal for the most demanding， mechanically constrained platforms including handheld devices，asset tracking， seismic recording instruments and many more．

Mechanical Specifications
dimensions are in mm


Electrical Specifications＊

| Parameter | Design Specifications |
| :--- | :--- |
| Frequency | 1575 MHz |
| Polarization | RHCP |
| Antenna element peak gain | -0.5 dBic （typical） |
| Efficiency | $25 \%$（typical） |
| Bandwidth（－1dB） | 20 MHz |
| Axial Ratio | $1 \mathrm{~dB}($ typical ）／1．5 dB（max） |
| VSWR | $1.5($ max $)$ |
| Impedance | 50 Ohm |
| Operating temp． | from $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ |
| RF connector | 3 pin，U．FL |
| Overall dimensions | See mechanical drawing above |
| Weight | 2 grams |

＊Declared peak gain and reported radiation pattern are intended for a rotationally symmetrical plastic radome．

## Features

－GPS band
－Very low axial ratio
－Easy integrate 3 pin connector
－Ultra light weight－ 2 grams
－Ground plane indepedent

## Applications

－Vehicle and fleet tracking
－Military \＆security
－Asset tracking
－Seismic recording instruments
－Oil \＆gas industries
－Navigation devices
－Mining equipment
－LBS \＆M2M applications
－Handheld devices

Realized gain plot
Measured at 1575 MHz


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

