

M1575HCT-22P

High Performance GPS Antenna

Description

The M1575HCT-22P is a high performance passive antenna designed for the GPS L1 band, and built on Maxtena proprietary Helicore® technology. This technology provides exceptional pattern control, polarization purity and high efficiency in a very compact form factor. The M1575HCT-22P is designed for embedded applications and features an integrated 3 pin connector. This product is designed for applications requiring high quality reception of GPS signals. The ultralight 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 much more.

Mechanical Specifications

Parameter	Design Specifications
RF connector	3 pin connector

dimensions are in mm

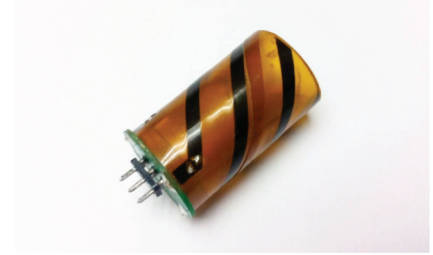
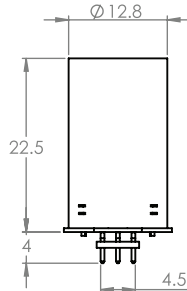


Image does not reflect actual size of the antennas

Features

- GPS Band
- Very Low Axial Ratio
- Easy Integrate 3 Pin Connector
- Ultralight Weight - 2 Grams
- Ground Plane Independent

Applications

- Vehicle & Fleet Tracking
- Military & Security
- Asset Tracking
- Seismic Recording Instruments
- Oil & Gas Industries
- Navigation Devices
- Mining Equipment
- LBS & M2M Applications
- Handheld Devices

Electrical Specifications*

Parameter	Design Specifications
Frequency	1575 MHz
Polarization	RHCP
Antenna element peak gain	0 dBic
Efficiency	30 %
Bandwidth (-1dB)	20 MHz
Axial ratio	1 dB (typical) / 1.5 dB (max)
VSWR	1.5 (max)
Impedance	50 Ohm
Operating temp.	from -40°C to 85°C

*This is a preliminary datasheet, electrical specifications may change.

Realized Gain Plot

measured at 1575 MHz

