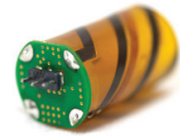


M1575HCT-22-P

HIGH PERFORMANCE PASSIVE GPS ANTENNA

Ordering Part #: TBD (Custom)

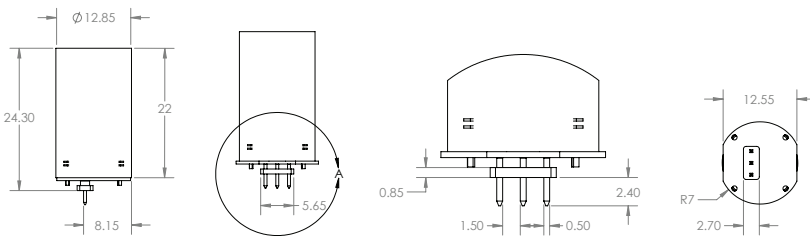


Description

The M1575HCT-22-P is a high performance passive antenna designed for the GPS L1 band, and built on proprietary Helicore® 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 applications 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 dB (typical) / 1.5 dB (max)
VSWR	1.5 (max)
Impedance	50 Ohm
Operating temp.	from -40°C to 85°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 independent

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

