M4HCT-22-P

PASSIVE GPS GLONASS GALILEO BEIDOU ANTENNA

Ordering Part #: 108-00073-04



Description

The M4HCT-22-P is a high-performance passive antenna designed for the GPS L1, GLONASS, Galileo and Beidou bands, and built on proprietary Helicore® technology. This technology provides exceptional pattern control, polarization purity, and high efficiency in a very compact form factor. The M4HCT-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, GLONASS, Galileo and Beidou 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.

Electrical Specifications*

Parameter	Design Specifications
Frequency	1575 MHz (GPS)
	1602 MHz (GLONASS)
	1561 MHz (Beidou)
	1575.42 MHz (Galileo)
Polarization	RHCP
Antenna element peak gain	-0.5 dBic (typical)
Efficiency	25% (typical)
Bandwidth (-1dB)	(-5 dB) 50 MHz (typical)
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 OR U.FL
Weight	2 grams

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

Features

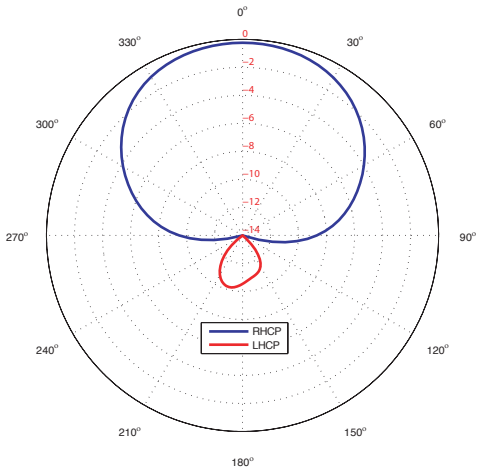
- GPS, GLONASS, Galileo, Beidou bands
- Very low axial ratio
- Easy integrate 3 pin connector
- Ultra lightweight - 2 grams
- Ground plane indepedent

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
WIRELESS INNOVATIONS COMPANY

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