Active Wide Band GPS Antenna

(Model: A-GPSA98NP3)

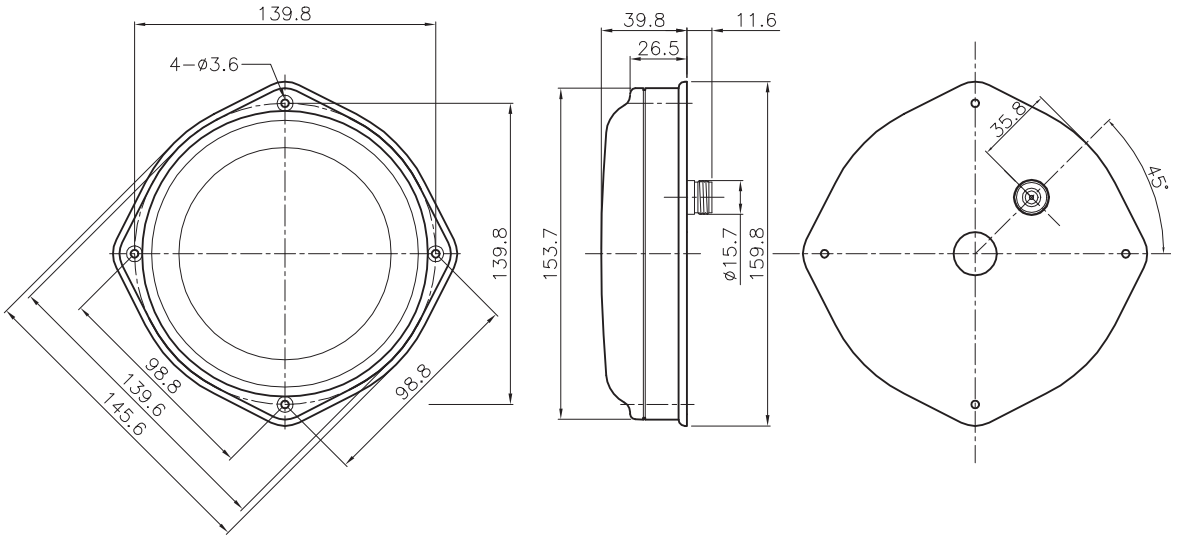
Description

A-GPSA98NP3 is a wide band high performance GPS antenna, which is designed for professional applications with extremely stable phase and amplitude performance across a wide temperature range. It will provide high accuracy, high reliable GPS signals received from satellites with 5-90 degree elevation.

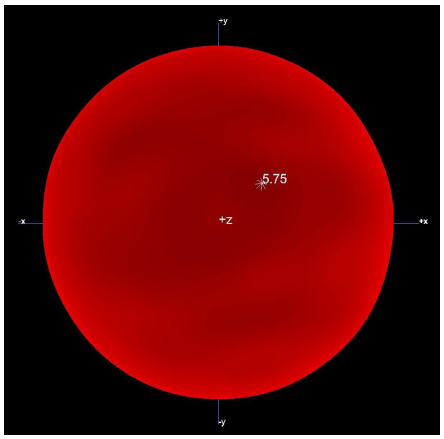
This antenna is an ideal choice for positioning and timing applications. It has been widely used for survey environments and communication system synchronisation around the world.

Specifications

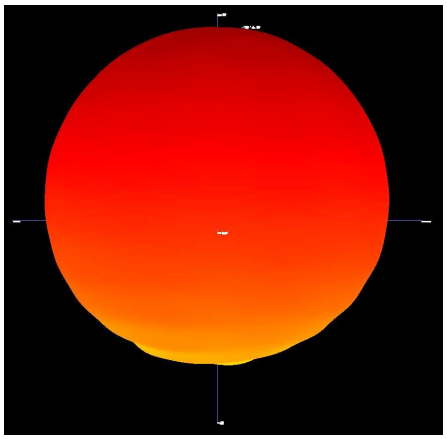
Frequency	1530-1580 MHz
Gain	38dBic Typical
Power Supply	2.7-15V / 35mA
Noise Figure of LNA	1dB typical
Impedance	50 Ohms
Temperature Range	-25°C to +80°C
Polarisation	RHCP
Coverage Pattern	38dBic @ 90° elevation, 33dBic @ 10° elevation
Packaging	White, UV Stable Radome
RF Connector	N Female base exit
Size	146x100mm (diameter x height)



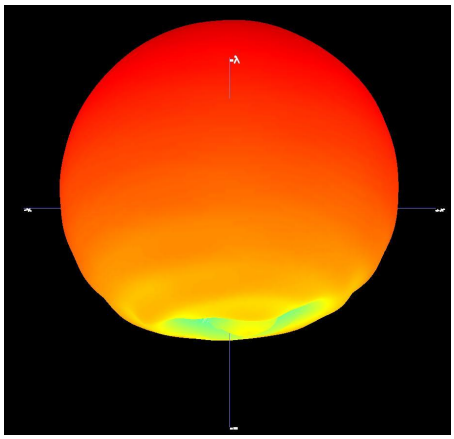
Test Result Diagrams



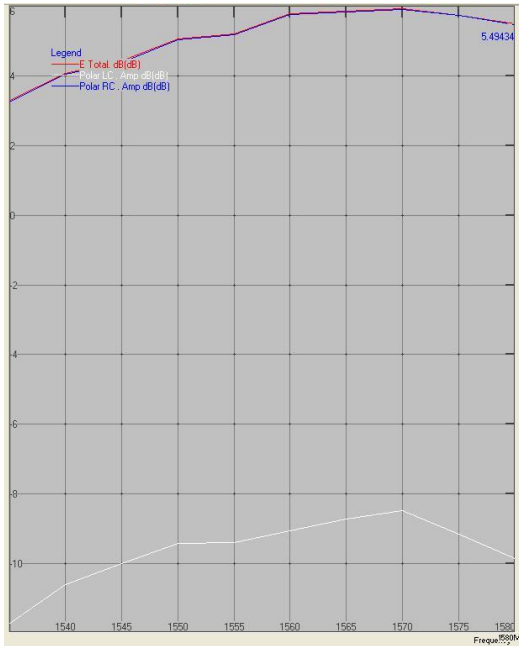
Top View @ 1575MHz. Gain =5.75dBic max.



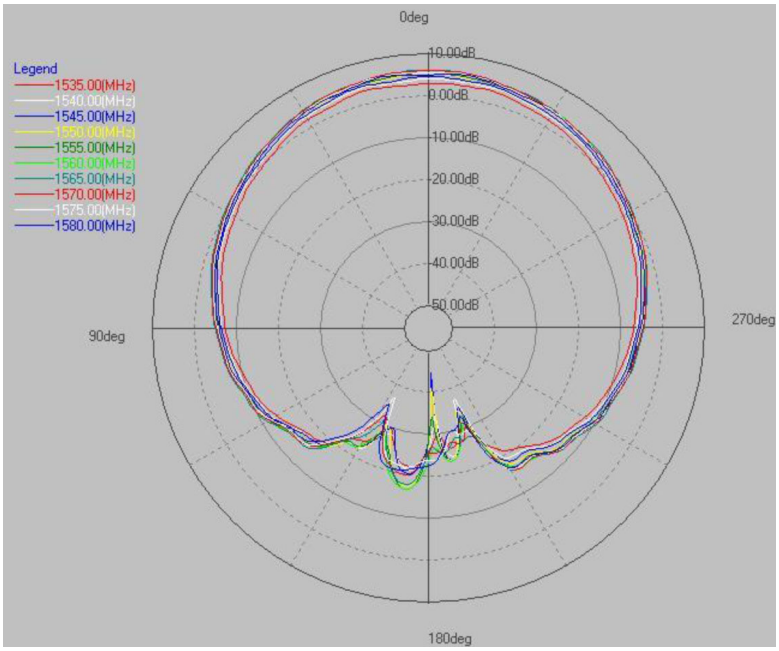
Side View @ 1575MHz



60 deg View from the ground @ 1575MHz



Gain from 1535 to 1580MHz (top line is the gain of RHC and bottom line is LHC)



Normal antenna pattern without LNA from 1535 to 1580MHz