



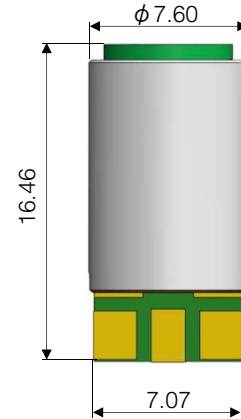
"The dielectric-loaded helical antenna solution"

MHA-1575A

L1 GPS miniature dielectric loaded antenna : PCB feed

APPLICATIONS

- Asset Tracking
- Hand Held Devices
- UAV/AUV
- Traffic Enforcement
- Emergency Location
- Seismic Monitors/Measuring
- Wildlife Tracking
- Marine Tracking

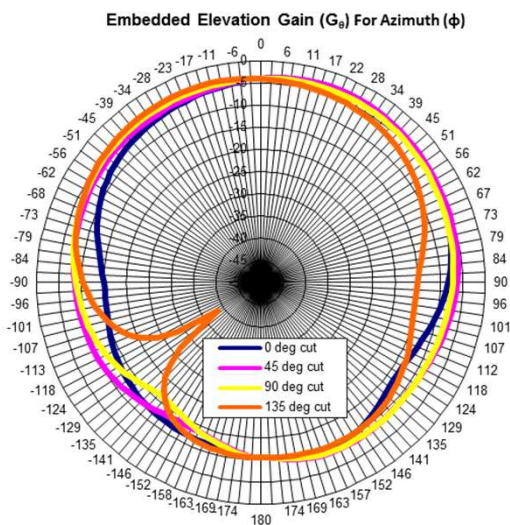


Product Description

The MHA-1575A is a breakthrough GPS L1 dielectric-loaded antenna which uses MARUWA's distinctive materials technology to provide unrivalled circularly-polarized gain from a uniquely small volume. The dielectric core together with the flywheel effect of the advanced design provides excellent performance in the most tightly integrated applications. The MHA-1575A acts as its own filter, attenuating signals from common cellular and ISM frequencies by as much as 30dB.

Key Features

- Designed for installation with 1.5mm gap from antenna side to host PCB ground-plane
- Filters against interference from cellular and ISM bands
- Balanced design rejects common mode noise from ground plane
- Solder-pad installation to device PCB



Design Specifications	Typical	Units
Frequency	1575.42	MHz
Gain (RHCP)	-3.5	dBic at zenith
Beamwidth	> 135	Degrees
Bandwidth	15	MHz
Axial Ratio	< 1.5	at zenith
VSWR	< 2.0:1	-
Impedance	50	Ohms
Operating Temp	-40 → +85	°C
Weight	3	grams