

"The dielectric-loaded helical antenna solution"

MHD-1575A

Rugged L1 GPS dielectric loaded antenna: SMA (male)

APPLICATIONS

- Asset Tracking
- · Hand Held Devices
- UAV/AUV
- Vehicle GPS

- · Emergency Locators
- Net Radio Location/Synchronisation
- Seismic Monitors/Measuring
- Marine Tracking

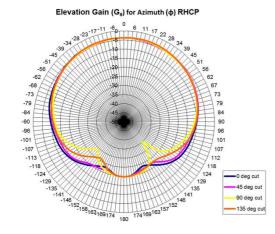


Product Description

The rugged MHD-1575A antenna is balanced, isolating it from the device and enabling the antenna to reject common mode noise. The design and materials of the antenna constrain its near-field to a very small volume. Therefore materials near the antenna have negligible de-tuning effects and the antenna maintains its pattern and efficiency in the presence of dielectric loading. The rugged MHD-1575A acts as its own filter, attenuating signals from common cellular and ISM frequencies by as much as 30dB. The MHD-1575A has a built in DC block to enable direct connection to receivers with DC on their input pin.

Key Features

- Negligible detuning in cluttered, dielectric loaded environments (hand-held, body-worn, close proximity to objects)
- Designed for harsh environments: exposed to force, dust and moisture
- · Useable in scenarios where orientation of antenna is random
- · Filters against interference from cellular and ISM bands
- Integrated O-ring water-seal



Design Specifications	Typical	Units
Frequency	1575.42	MHz
Gain (RHCP)	-3.0	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	14	grams