

**RF-397**  
**VEHICULAR UHF**  
**ANTENNA**

The Harris RF-397 Vehicular UHF Antenna is a broadband, center-fed antenna operating in the 225 to 420 MHz frequency range. It maintains a VSWR of less than 3.0:1 over the entire frequency range without the need for a tuner or band switching. The RF-397 is efficient and built ruggedly, providing economical and dependable communications.

The RF-397 Antenna is designed to meet requirements of the Harris Falcon<sup>®</sup> II series UHF vehicular transceivers and is compatible with other Harris multiband transceivers as well. Covering only the UHF band allows the antenna to be very efficient while maintaining a very low profile of less than one meter.

The Type N connector is below the base with a nominal impedance of 50 ohms. Continuous power capability is 60 watts. It is completely compatible with present NATO mounting schemes and communication systems.

The RF-397 is intended primarily for ground vehicular applications but can be adapted for shipboard and fixed-station installations. The low profile design allows the vehicle to remain hidden until the entire vehicle is visible.



### General

- **Frequency Range:** 225 to 420 MHz
- **Polarization:** Vertical
- **Impedance:** 50 ohms (nominal)
- **VSWR:** Less than 3.0:1
- **Gain:** +2 dBi, nominal
- **Power Rating:** 60 watts
- **Matching Circuit:** Passive, Broadband
- **Radiation Pattern:** Omnidirectional
- **Salt Spray:** Salt spray resistant

### Features

- Standard NATO bolt pattern
- Instantaneous Bandwidth for ECCM waveforms
- Feed Thru base with spring
- Center-fed to minimize ground plane dependence

### Mechanical

- **Height:** 33.5 in. (0.86 m)
- **Weight:** 6 lbs (2.7 kg)
- **RF Connection:** Type-N Female
- **Bolt Hole Pattern:** Four 0.437 in. holes equally spaced on a 4.5 in. bolt-hole circle

### Construction

- Color: MIL-STD-383, Military Green
- Radome: G-10 Fiberglass
- Spring: Stainless Steel
- Insulator: Polycarbonate

Specifications are subject to change without notice.