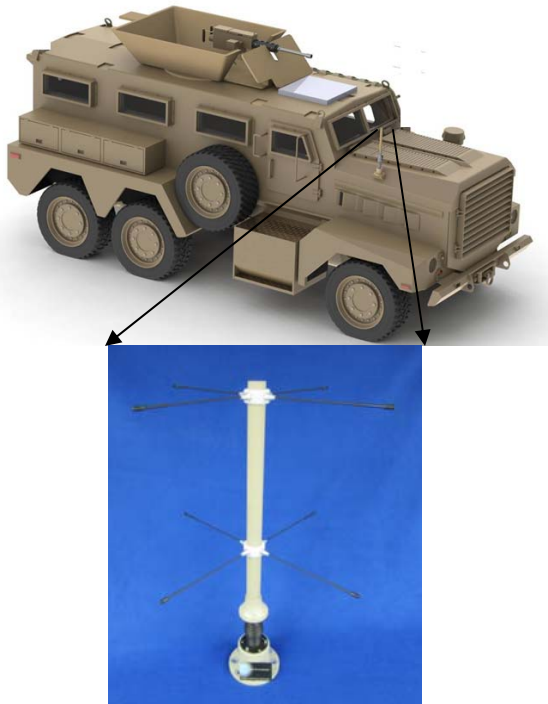


# FRF-176 DATA SHEET



**FRF-176 UHF SATCOM Antenna**

## Description:

The FIRST RF Corporation FRF-176 antenna is a high-gain, low profile vehicular UHF SATCOM antenna. The antenna is tailored to provide complete transmit and receive coverage for legacy UHF SATCOM systems, and a future revision will incorporate next-generation MUOS SATCOM as well.

Additionally, this product provides substantially higher levels of platform-independence and interference mitigation for advanced integration.

The product builds upon FIRST RF multi-band family of antennas which have been manufactured in quantities of over 160,000.

The antenna has been designed to meet MIL-STD 810 environments and to pass additional packaging conditions.

## Performance Overview:

Frequency: 240-320 MHz  
 Gain: +2dBic minimum  
 VSWR: 2.0:1 Max

Coverage: Upper-hemispherical RHCP

Power Handling:

- 100W peak
- 100W average

Nominal Impedance: 50 Ohms

## Mechanical Overview:

Connectors: 1xSMA or N female

Physical Dimensions

- Height: 3'
- Vehicle Mounting: Spring Mount Antenna has flexible eight hole mounting interface and vehicle mounting bracket provides the Standard four (4) hole interface mount per CECOM drawing A3207505.

Antenna Weight: under 5 lbs.

Typical Elevation Pattern

