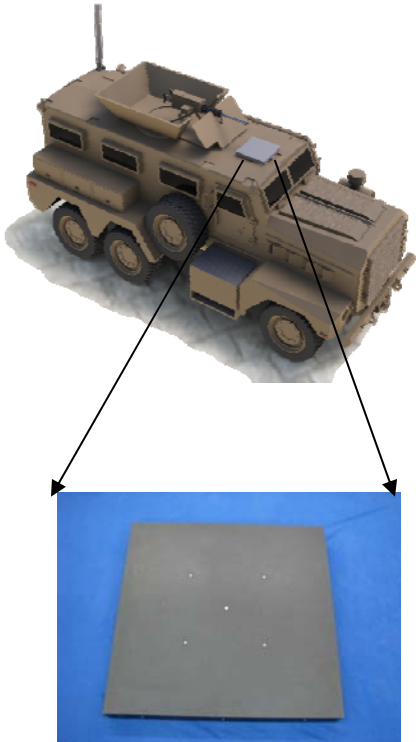


# FRF-175 DATA SHEET



FRF-175 UHF SATCOM Antenna

## Description:

The FIRST RF Corporation FRF-175 antenna is a high-gain, conformal 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 antenna has been designed to meet MIL-STD 810 environments and to pass additional packaging conditions.

## Performance Overview:

Frequency: 240-320 MHz  
Gain: +4dBic minimum  
VSWR: 2.5:1 Max

Coverage: Upper-hemispherical RHCP

Power Handling:

- 100W peak
- 100W average

Nominal Impedance: 50 Ohms

## Mechanical Overview:

Connectors: 1xSMA or N female  
1xGrounding strap

Physical Dimensions

- Footprint:
  - -500 series: 32"x32"
  - -501 series: 24"x24"
- Height: 3.00"

Antenna Weight: under 20 lbs.

Typical Elevation Pattern

