

# FRF-171 DATA SHEET

## Description:

The FIRST RF Corporation FRF-171 antenna system is an omni-directional, high power, high gain omni L-Band antenna system suitable for installation on commercial and tactical wheeled vehicles.

The antenna is available in a ruggedized spring mount currently.

The product is the latest version of the FIRST RF vehicular family of antennas which have been manufactured in high quantities.

The antenna has been designed to meet MIL-STD 810 environments and to pass additional Munson road test conditions when suitably mounted on the vehicle platform. The antenna has also passed oak beam strike testing at 25 mph.

## RF Performance Overview:

L-Band: Frequency: 800-2500 MHz

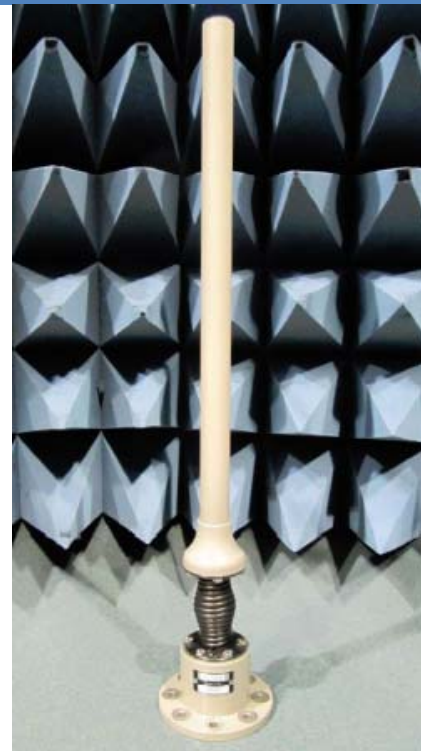
Gain:  $\geq +5$  dBi

VSWR: 2.5:1 Max

Nominal Impedance: 50 Ohms

Power Handling: 100W CW

Polarization: Vertical



**FRF-171 Spring Mount Antenna**

## Environmental:

Designed to exceed MIL-STD-810F  
Temperature: -40-+71°C Operational

## Mechanical Overview:

Connectors: Band L N Type Female

Flexibility: Spring with damping  
Physical Dimensions: Height <32" with Spring Base

Outside Diameter: 1.4"

Antenna Weight: <6 lbs. with Spring Base

Radome: Electrically Insulated to 10kV rms

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.