

FRF-119 Series DATA SHEET

Description:

The FIRST RF Corporation FRF-119 antenna system is a high gain, high power, directional and omni-directional antenna system suitable for installation on fixed site towers, buildings, tactical and commercial vehicles.

The product is within the FIRST RF multi-band family of antennas which have been manufactured in high quantities. The technology covers an unprecedented number of commercial communications bands from GSM through WiMax frequencies from a single compact aperture minimizing cost of installation and maintenance to a single site.

The antenna provides broad band high gain coverage for various EW and communications fixed site and vehicular applications.

The antenna is available in a ruggedized spring mount configuration or low profile magnetic mount configuration.

The antenna system has gone through extensive environmental and performance testing to ensure reliability in the harshest environments. The antenna exceeds MIL-STD-810F performance requirements and has passed rigorous road test conditions (Munson Road Test) when suitably mounted on the vehicle platform

RF Performance Overview:

Please contact FIRST RF for detailed RF Specifications.

Environmental:

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



FRF-119 Antenna Series (119 Left, 119C Right)

Mechanical Overview:

Connector: N and TNC dependent upon model number

Flexibility: Spring with damping

Physical Dimensions:

FRF-119 – 32" H x 10.5" W with Spring Base

FRF-119C – 65" H x 10.5" W with Spring Base

FRF-119L – 6" H x 18" W with MagMount

Antenna Weight:

FRF-119 – 15.5 lbs. with Spring Base

FRF-119C – 17 lbs. with Spring Base

FRF-119L – 6 lbs. with MagMount

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 mounting bracket and choice of stackable risers along with the 8 hole mounting interface provides a flexible vertical mounting system.