

FRF-105 SERIES DATA SHEET

Description:

The FRF-105 series of antennas provides broadband omni-directional coverage over unprecedented 300:1 bandwidth making it well suited for applications which require broadband or multi-band performance. This includes single installation multi-band communications for both commercial and military applications, EW, Electromagnetic Surveillance, Spectrum Monitoring, and Metrology.

The FIRST RF Corporation FRF-105 series antenna systems have high power omni-directional capability over a broad frequency range, with the choice of adding additional directional pattern capability. The antenna systems are designed to meet the most stringent environmental requirements including tactical and commercial vehicles as well as fixed site installations.

The antenna is a superior choice for broad band EW and communications functions for vehicular and fixed site applications.

The antenna series 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:

Nominal Impedance: 50 Ohms
High Power Handling Capability
Polarization: Various options are available
Please Contact FIRST RF for Detailed RF performance specifications on specific model series.



FRF-105 Antenna Series

Environmental:

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

Mechanical Overview:

Flexibility: Available in Ruggedized Spring, Magnetic or Adjustable Swivel Mounts

Physical Characteristics vary dependent upon model number :

Nominal height: 49" Tall

Nominal Antenna Weight: 7 to 13.0 lbs
dependent upon base configuration

Available in 1.4" to 4.5" diameters

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 mounting system.

Radome: Electrically Insulated to 10kV rms