

FRF-107 DISMOUNT SERIES DATA SHEET

Description:

The FIRST RF Corporation FRF-107 antenna system is an omni-directional, multi-band, high gain omni/Directional antenna system suitable for installation on dismantled soldiers and portable deployable masts or structures.

The antenna eliminates the need for separate single or multi-band antennas on the soldier and improves cosite and RF system performance.

The product is the latest version of the FIRST RF multi-band 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 packaging conditions.

RF Performance Overview:

The FRF-107 is available in a variety of port configurations and band breaks as shown above. Additional configurations are available using FIRST RF modular technology.

Nominal Impedance: 50 Ohms

Power Handling available upon request.

Detailed RF performance specifications available upon request.



FRF-107 Antenna Dismount Antenna

Environmental:

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

Mechanical Overview:

Connectors: N Type Female Typical

Physical Dimensions: Height <38" with Base

Outside Diameter: 1.4" OD Radome
Antenna Weight: <1.5 lbs. depending on configuration

Radome: Electrically Insulated to 10kV rms

The following standards shall apply to a dismantled environment:

- Altitude: MIL-STD-202G, Method 105C, Test Condition A
- Operating temperature: -40°C to +65°C
- Non-operating ambient storage temperature: -40°C to +71°C
- Humidity: Operation in an 85% humidity, non-condensing environment