

FRF-124 DATA SHEET

Description:

The FIRST RF Corporation FRF-124 antenna system is a Directional L/S and omni-directional, multi-band, omni VHF/UHF/L/S/C-Band antenna system suitable for installation on tactical vehicles.

The antenna eliminates the need for separate single or multi-band antennas on vehicles 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:

FRF	Port	Notes
124LX	1	VHF/UHF Omni
	2	L/S Directional
	3	C Omni

The FRF-1150 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: 100W CW

Polarization: Vertical

Isolation: 20 dB



FRF-124LX Directional Vehicular Antenna

Environmental:

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

Mechanical Overview:

Connectors: N Type Female Typical

Physical Dimensions: Height <83" with Base

Outside Diameter: 4.5" OD Radome

Antenna Weight: <28 lbs. with Base

Radome: Electrically Insulated to 10kV rms

The following standards shall apply to 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