HARRIS®

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RF-3164-AT122

MANPACK HIGH BAND ANTENNA

225 TO 450 MHz



The RF-3164-AT122 UHF dismount antenna is a linearly polarized, center-fed dipole antenna for use with the AN/PRC-117G(V)1(C) and RF-7800M-MP Falcon III® manpack transceivers.

The antenna is composed of an N-type connector, matching network, flexible gooseneck and a blade-style upper element. The flexible gooseneck provides ideal antenna articulation without regard to radio orientation during both static and dynamic operation. If desired, the blade can be folded for stowage.

The RF-3164-AT122 connects directly to the high-band port of the Falcon III manpack radios via a custom N-type connector. Additionally, the antenna may also be tethered to the rucksack or side of the radio via a coaxial cable and N-type connector to further isolate it from the other antennas.



Specifications for the RF-3164-AT122

Electrical

- **Frequency Range**
  225 - 450 MHz
- **RF Power Capacity**
  10 watts
- **Input Impedance**
  50 ohms (nominal)
- **Radiation Pattern**
  Omnidirectional in azimuth,
  see radiation pattern below
- **Polarization**
  Linearly polarized, relative to 50 ohms
- **VSWR**
  < 3.0:1
- **Gain**
  > -3 to 1 dBi

Environmental

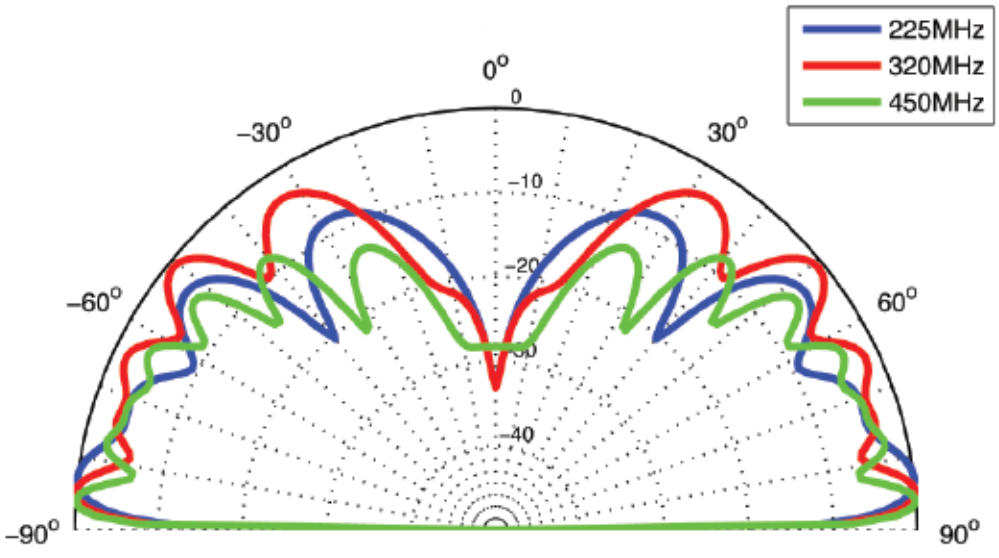
- **Meets MIL-STD-810F**

Mechanical

- **RF Connector**
  N-type male
- **Deployed Dimensions**
  22.5 inches (approx. 57 cm)
- **Stowed Size**
  < 16 inches (approx. 41 cm)
- **Weight**
  11.0 oz (0.31 kg)
- **Color**
  Black, matte finish

Features

- **Lightweight**
- **Dipole design isolates the antenna from RF current on the radio**
- **Passive matching**
- **May be removed from the manpack and used via a coaxial line**
- **Antenna may be elevated to enhance range performance**



RF-3164 Typical Radiation Pattern when mounted on the Falcon III manpack over ground

Specifications are subject to change without notice.

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