

RF-3165-AT122**MANPACK HIGH****BAND ANTENNA****225 TO 2000 MHz**

The RF-3165-AT122 dismount antenna is a center-fed dipole antenna for use with the AN/PRC-117G(V)1(C) and RF-7800M-MP Falcon III® manpack transceivers. It connects directly to the high-band port of the Falcon III manpack radios via a custom N-type connector.

The antenna includes both a flexible gooseneck base that allows the operator to orient the antenna for optimum performance and a tubular, upper radiator. The passive matching network allows operation over the complete 225 to 2000 MHz band.

The antenna may also be attached to a rucksack and tethered to the radio via a coaxial cable. This will increase the isolation between the low-band and high-band antennas. Furthermore, with proper elevation of the antenna, the tethered configuration can enhance overall range performance.



Electrical

- **Frequency Range**
225 - 2,000 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**
< 3.5:1
- **Gain**
> -5 dBi at 225 to 450 MHz
> -5 dBi at 1,350 to 1,550 MHz
> -15 dBi at all other frequencies

Environmental

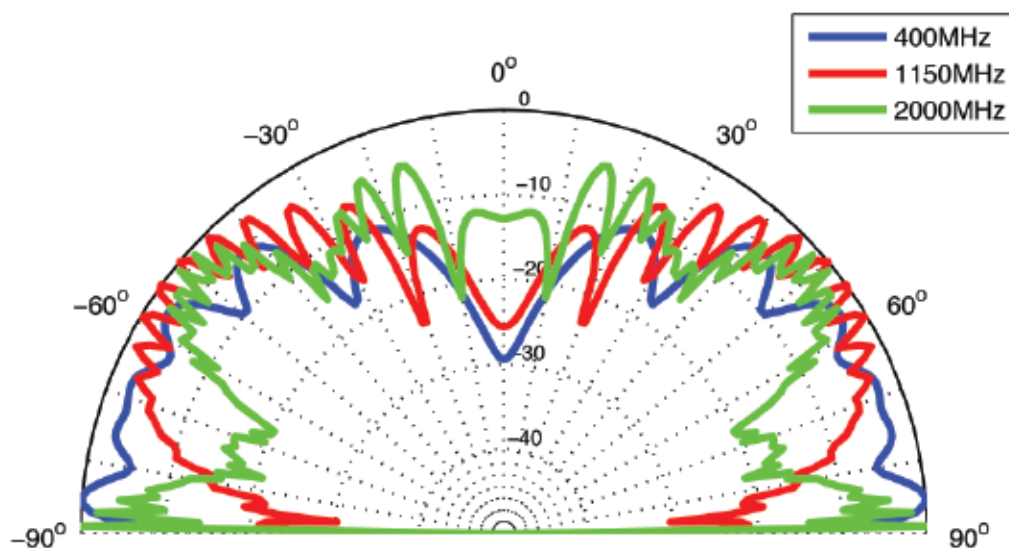
- Meets MIL-STD-810F

Mechanical

- **RF Connector**
N-type male
- **Deployed Dimensions**
22.5 inch (approx. 57 cm)
- **Weight**
14.0 oz. (0.397 kg)
- **Color**
Black, matte finish

Features

- Ruggedized antenna
- Lightweight
- Broadband passive matching
- Extreme bandwidth
- May be removed from manpack and used via a coaxial cable
- May be elevated to improve range



RF-3165 Typical Radiation Pattern when mounted on the Falcon III manpack over ground

Specifications are subject to change without notice.