

assuredcommunications® 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

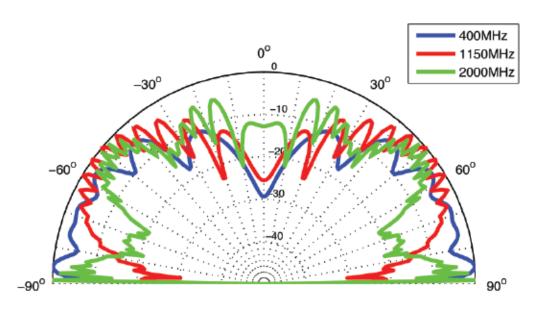
■ Meets MIL-STD-810F

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.

