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RF-3164-AT122

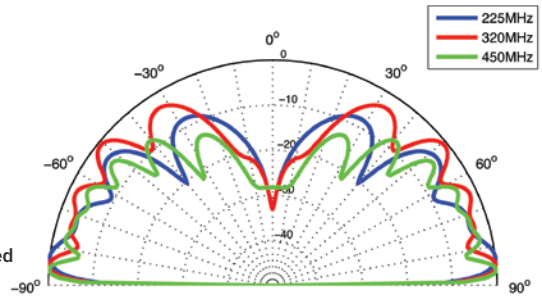
Manpack Highband Antenna, 225 to 450 MHz

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
Dimensions	22.5 in (approx 57 cm) — deployed; < 16 in (approx 41 cm) — stored
Weight	11.0 oz (0.3 1 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.

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 storage.

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 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.

Non-Export Controlled Information

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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