



L3HARRIS™
FAST. FORWARD.

RF-3161-AT001

Broadband Body-Worn Dipole Antenna, 30-108 MHz

RF PERFORMANCE

Frequency Range	30–108 MHz
Polarization	Vertical
Impedance	50 ohms (nominal)
VSWR	<3.5:1
Power Rating	8 W Continuous
Matching	Passive network
Radiation Pattern	Omnidirectional
Gain	–10 dBi (30 MHz) to 0 dBi (108 MHz)

MECHANICAL

Height	1.75 m (5.74 ft)
Diameter	2.88 cm (1.13 in)
Weight	1.36 kg (3 lb)
RF Connector	BNC
RF Cable length	0.9 m (3 ft)
Color	Black
Environment	Tested to MIL-STD-810F

FEATURES

Wide instantaneous bandwidth
Increased performance over standard blade antenna
Position and handling of radio has no effect on antenna performance
Increased immunity to EMI from data terminals
Self contained passive matching network
Flexible blade allows folding
Flexible antenna body contours to operator
ALICE clips allow simple attachment to vest or rucksack
Environmentally sealed in durable material



The RF-3161-AT001 is an omnidirectional, vertically polarized antenna designed for operation while directly attached to the operator's vest or rucksack. Using this antenna, a 1 kg handheld radio can achieve similar range performance as a traditional 3-5 kg manpack radio with integrated blade antenna. The RF-3161-AT001 consists of three parts; a flexible antenna body, a coaxial cable and a 1 m flexible blade antenna that can be folded to remain below helmet level. This broadband solution is ground-independent and can easily be deployed in a variety of configurations to gain additional height and Line-Of-Sight range.

OPTIONAL CONFIGURATIONS

**RF-5800V-DS0011 VHF Dismounted Communication System and
RF-5800V-DS101 VHF Dismounted Communication System With Internal GPS**

RF-5800V-HH Handheld Radio

2 High Capacity Li-Ion Batteries

RF-3161-AT001 VHF Soldier Antenna

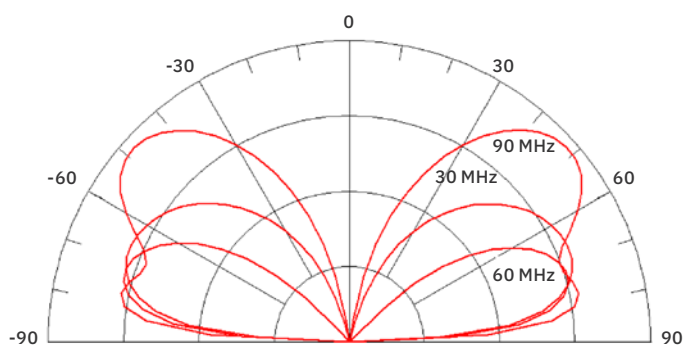
Antenna Elevation Kit

Holster

Rubber Duck Antenna

VHF Blade Antenna

Accessory Bag



**RF-3161 Elevation Radiation Patterns for 30, 60, and 90 MHz
(Azimuth are Omnidirectional)**

Specifications are subject to change without notice.

RF-3161-AT001

© 2020 L3Harris Technologies, Inc. | 03/2020 SP140

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.



L3HARRIS™
FAST. FORWARD.

1025 W. NASA Boulevard
Melbourne, FL 32919