L3HARRIS™
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RF-387-AT002

VHF Vehicular Whip Antenna

PHYSICAL	
Height	131 in (3.3 m)
Weight	4.4 kg including GPS base
Color	CARC 383 Green

ENVIRONMENTAL	
Temperature	-67°F to +185°F (-55°C to +85°C)
Wind Rating	125 mph (55m/s)

MECHANICAL	
RF Connectors	VHF-BNC(f), GPS-SMA(f)
Mounting	Four 0.4 in holes spaced on 4.5 inches BHC (Hardware included) Bolts directly to RF-292 (not included)

VHF ELECTRICAL	
Frequency Range	30-108 MHz
Polarization	Vertical
Impedance	50 ohms
VSWR	3.5:1 max
Gain	-4 dB to +1 dB ref 1/4 wave monopole
Power Rating	100W continuous
Matching	No tuning required
Radiation Pattern	Omnidirectional, null overhead

GPS ELECTRICAL	
Frequency Range	1575.42 ±10 MHz
Preamplifier Gain	26.5 dB
Noise Figure	2.5 dB
Supply Voltage	5.0 ±0.5 V
Supply Current	<40 mA

The RF-387-AT002 is designed for use with the RF-5800V transceiver, and features integrated low-band VHF and GPS antennas. The 121-inch antenna provides exceptional gain and instantaneous bandwidth for ECCM waveforms. This vehicular solution puts the power pattern on the horizon supporting exceptional LOS communications without the need for a ground plane. The VHF center-fed element and matching network is rated for 100 watts. The flexible spring feed-through mounting base contains a GPS spring-based antenna with an overall length of 131 inches. The underside of the base includes a ground stud and two connectors; a VHF female BNC connector and female SMA connector.

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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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