

RF-3183-AT0XX MULTIBAND VEHICULAR ANTENNA SERIES

*for tactical, C3I, or battlefield
conditions using new
broadband antenna
technology*

The RF-3183 vehicular whip antennas are a series of tactical, multiband antennas that are designed for use with Harris multi-mission military radios, including the RF-300M-MP, RF-7800M-MP, AN/PRC-117F, RF-5800M-MP, RF-5800V and the vehicular AN/PRC-152 handheld radio. Available in single and dual port configurations with either BNC or Type N connectors, they provide maximum performance over the 30MHz to 512MHz spectrum. The dual port configurations are enabled through the use of a diplexer.

The antennas utilize the latest in broadband antenna technology and provide exceptional LOS and BLOS communications. Designed specifically for battlefield conditions, these antennas remain mechanically strong and flexible even when deployed in the harshest of conditions. They incorporate high-voltage power line protection, and due to their passive characteristics, they operate without an antenna tuner, band-switching or operator intervention.

The antenna series is designed to meet and exceed the rigors of MIL-STD-810 and SINCGARS testing for mechanical, environmental and tactical survivability. They bolt directly to a NATO standard 4.5-inch bolt circle or the Harris RF-292 Universal Antenna Mount and, by reducing the typical multiband antenna signature to a single antenna they become the ideal choice for multiband radio deployment.



Electrical

- **Frequency Range:** Without Diplexer: 30 to 512 MHz
With Diplexer: 30 to 88 MHz
108 to 512 MHz
- **Polarization:** Vertical
- **Impedance:** 50 Ω (nominal)
- **VSWR:** <3.5:1 over 95% of the pass band
- **Gain:** -5 dB to +1.5 dB rel 1/4 Wave radiator on 10'x10'x10' Ground Plane
- **Power Rating:** 50 W, 1 hour
- **Matching:** Passive, distributive
- **Radiation Pattern:** Omnidirectional

Mechanical

- **Height:** 2.7 m (105 in., 8.75 ft.)
- **Weight:** 4 kg. (8.75 lbs.)
- **RF Connector:** Single connector, BNC female or Type N
Dual feed, Diplexer BNC Female only
- **Wind Rating:** 123 mph
- **HV Protection:** 20 kV RMS
- **Mounting:** Four 0.5 in holes spaced on 4.5" BHC
(Hardware included)
Bolts directly to RF-292 (not included)

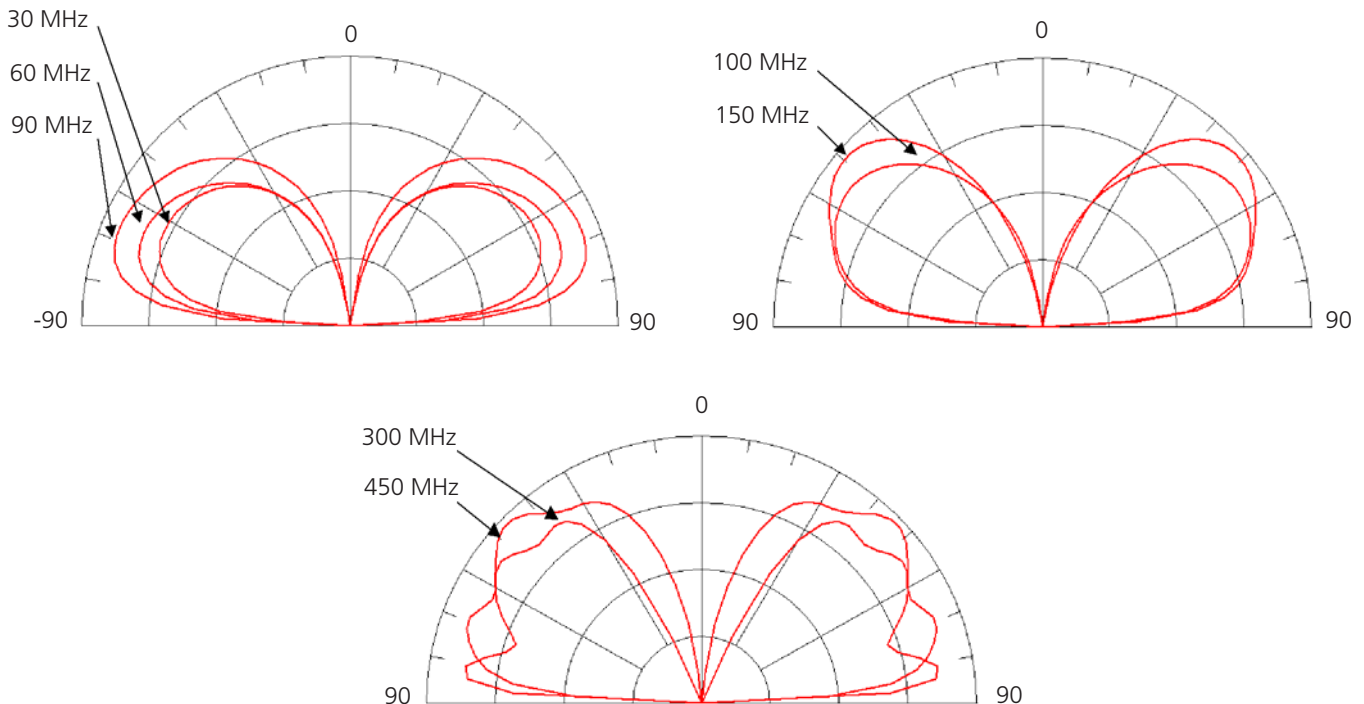
Models

Antenna	Port / GPS / Diplexer	Color Matrix
RF-3183-AT001	Dual BNC / Yes / Yes	Green
RF-3183-AT002	Dual BNC / Yes / Yes	Tan
RF-3183-AT003	Type N / Yes / No	Green
RF-3183-AT004	Type N / Yes / No	Tan
RF-3183-AT005	BNC / Yes / No	Green
RF-3183-AT006	BNC / Yes / No	Tan
RF-3183-AT011	Type N / No / No	Green
RF-3183-AT012	Dual BNC / No / Yes	Tan
RF-3183-AT013	Dual BNC / No / Yes	Green
RF-3183-AT014	Type N / No / No	Tan
RF-3183-AT015	BNC / No / No	Green
RF-3183-AT016	BNC / No / No	Tan

Features

- Instantaneous bandwidth for ECCM waveforms
- Dual or single port
- Multi-sectional
- Standard NATO bolt pattern
- Feed through base with spring
- High voltage protection

Radiation Patterns Over Average Ground



Specifications are subject to change without notice.