



ARA-3545

Vehicular-Mounted
Omni Directional Antenna

The **ARA-3545** antenna is a single band, omni- directional, vehicular broadband communications or jamming antenna.

This antenna is designed to meet MIL-STD-810 for military vehicles. This rugged antenna can be coated with a variety of materials including CARC Green/Tan or Dead Flat Black paint. The design also uses technology from our larger vehicular mount antennas to pass the Oak Beam Test; this rigorous test involves 25 oak beam strikes to the mid point of the antenna at 25 miles per hour.

Electrical Specifications

Frequency (MHz):350 - 450
 VSWR: 2.0:1 typical
 VSWR (*max*): 3.0:1
 Gain 2 dBi, minimum
 Power 100+ Watts CW
 Input Impedance: 50 Ω
 Port: J1
 Connector: Type N, Female*
 Out-of-Band Frequency (MHz) 225 – 500 MHz
 Out-of-Band Gain (dBi) 0 dBi, minimum



ARA-3545

Mechanical Specification

Weight < 3 lbs
 Height 25 in
 Diameter 1.75 in
 Mount NATO 4-hole
 Finish CARC (Green/Tan), Black
 Spring >40,000 flexures at 60°
 Spring 3,000 flexures at 90°

The ARA-3545 is a ground-plane independent antenna with an electrically conductive aluminum mount for excellent electrical bonding to a standard vehicular NATO mount. The radome offers high voltage isolation of greater than 25 kV for overhead obstacles.

*Connector can be modified to meet system requirements

This data sheet has been released into the public domain in accordance with International Traffic in Arms Regulations (ITAR) 22 CFR 120.11(6)