

The ARA-2245A antenna is a single-band, omni-directional, vehicular communications antenna. This is a ground plane dependent antenna designed to maintain high gain over a -10 to +50 degree range of elevation angles. The peak performance is, typically, at +15 degrees in elevation. Broadband, low VSWR ensures no power reduction in mobile or vehicular amplifiers.

The sealed radome offers both mechanical stability and environmental protection for the antenna when it is deployed. The antenna is fastened onto a heavy duty spring mount with the NATO 4-hole bolt pattern to minimize high velocity impacts. Lightweight materials enhance the antenna's flexibility and durability.

**ELECTRICAL SPECIFICATIONS:**

Frequency	225 - 450 MHz
VSWR	< 2.0 : 1 typical
VSWR	3.0:1 max
Gain (boresight)	-1 – 1 dBi
Power	300 Watts CW
Input Impedance	50 Ohms
High Voltage Isolation	>25 KV
Ports	J1
Connector	TNC

**MECHANICAL SPECIFICATIONS:**

Weight (vehicular)	< 2.5 lbs
Height	< 14 in
Diameter	2 in
Mount (vehicular)	NATO 4-hole
Finish	CARC Green, Tan, Black
Temperature	-30° - 50° C
Spring	>40,000 flexures at 60° 4,000 flexures at 90°



ARA-2245A

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**Antenna Research**