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ARA-1220 SERIES L-BAND COMMUNICATIONS ANTENNA



The ARA-1220 and ARA-1220-101 antennas are wide band, omni-directional, vehicular communications antennas. The ARA-1220 and ARA-1220-101 are designed for use in the most demanding and harsh tactical conditions. The lightweight, low-profile construction combined with a standard NATO 4-Bolt mounting pattern allows it to be easily integrated into military vehicles and most antenna mast systems.

The ARA-1220 has been tuned for performance between 1200 MHz and 2000 MHz but performs well up to 2500 MHz. The ARA-1220-101 version of this antenna includes a bandpass filter and low noise preamplifier built-in. DC power is applied and decoupled from the single RF connector at the base. The bandpass filter on the ARA-1220-101 reduces the band to operate between 941.5 MHz and 1126.5 MHz.

The maximum gain has been tuned for -10° to 10° in elevation with azimuthal variations ± 1 dB. Broadband, low SWR ensures no effective radiated power reduction in mobile or vehicular platforms.

ARA

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FEATURES

- Lightweight
- Extremely Rugged
- Low-Profile Construction
- NATO 4-Hole Vehicular Mount
- Option for bandpass filter and low-noise preamplifier.
- Available in CARC Green, Tan, or Black finish. Other colors available on request.
- Made in the USA

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Specifications		
	ARA-1220	ARA-1220-101
Gain (dBi)	3.0 to 5.5	9.0 to 15.0
Frequency (MHz)	1200 to 2000	941.5 to 1126.5
Noise Figure	N/A	1 dB typical
DC Input	N/A	12 to 15 V
Power Handling	100+ W CW	19 mW (+13 dBm)
Impedance	50 Ω	
VSWR	< 1.75:1 typical; 2.25:1 max	
Port	J1	
Connector	Type N Female	
Weight	3.5 lbs (1.6 kg)	
Height	24 in (0.61 m)	
Diameter	1.5 in (38 mm)	
Spring	>40,000 flexures at 60°; 4,000 flexures at 90°	

The data described herein is subject to licensing under the International Traffic Arms Regulations (ITAR) 22 CFR Parts 120-130. This data sheet has been released into the public domain in accordance with these regulations.

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