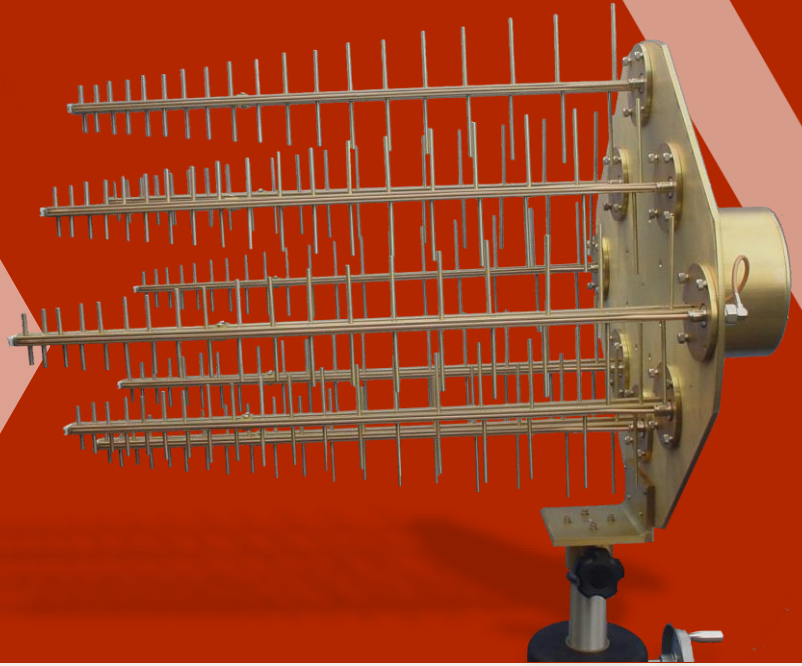




sales@ara-inc.com



LPA SERIES LOG-PERIODIC ACTIVE ARRAYS



ARA's series of log-periodic antenna arrays supports a wide variety of applications requiring high-power transmission. These arrays are designed to meet strict beamwidth, gain, and power handling requirements. The log periodic design produces very broadband characteristics and a unidirectional radiation pattern. These antennas can be used to make accurate electric field strength measurements and individually calibrated antenna factor curve can be provided.

ARA can also supply the pedestal, positioner and controller when a full antenna system is required. These systems can support high accuracy positioning. Power requirements and overall durability are our prime concerns to provide a long-term solution.

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.

ARA

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301-937-8888 | www.ara-inc.com



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Revised November 2020

FEATURES

- Broadband
- High Gain
- High Accuracy Positioning
- Pedestal, Positioner, and Controller Available when a full antenna system is required.
- Aluminum is Gold Iridite and can be supplied with an epoxy paint finish or anodized.
- Made in the USA

Specifications and Configurations

	LPA-1522-101	LPA-2201-A1	LPA-4048-101	LPA-820-8
Frequency	150 to 225 MHz	220 MHz to 1.0 GHz	400 to 480 MHz	750 MHz to 2.0 GHz
Gain	14 to 17 dBi	11.5 dBi	16 dBi Nominal	16 to 19 dBi Typical 18 dBi Average
Polarization	Horizontal	Linear H or V	Horizontal	Linear H or V
VSWR	2.0:1	1.3:1 Typical 2.0:1 Maximum	2.0:1 Nominal	3.0:1
Beamwidth (Nominal)	Azimuth: 18° Elevation: 30°	H Pol: 60° El x 30° Az V Pol: 30° El x 60° Az	Azimuth: 16° Elevation: 36°	H Pol: 30° El x 20° Az V Pol: 20° El x 30° Az
Power Handling	80 kW Peak 20 kW Avg	500 W CW	12 kW Peak 2.4 kW Avg	500 W CW
Antenna Connectors	3 1/8 EIA	N-Type Female	1 5/8 EIA	N-Type Female
Extended Dimensions	164.5" x 100" x 66.3"	8.0' x 2.7' x 6.3'	80" x 30" x 36"	34.5" x 28" x 26.5"
Weight	750 lbs (340 kg)	46 lbs (21 kg)	100 lbs (45 kg)	30 lbs (14 kg)

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