

LAL Series Low Power UHF Television Antenna

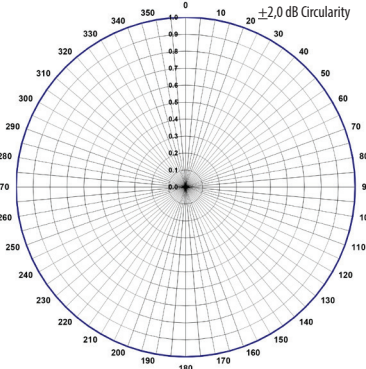
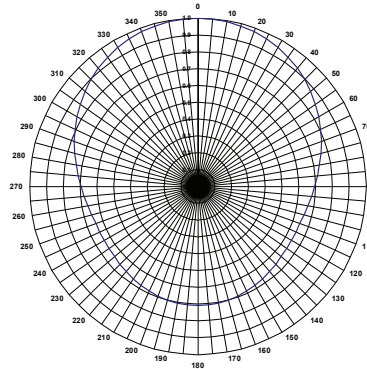


Features

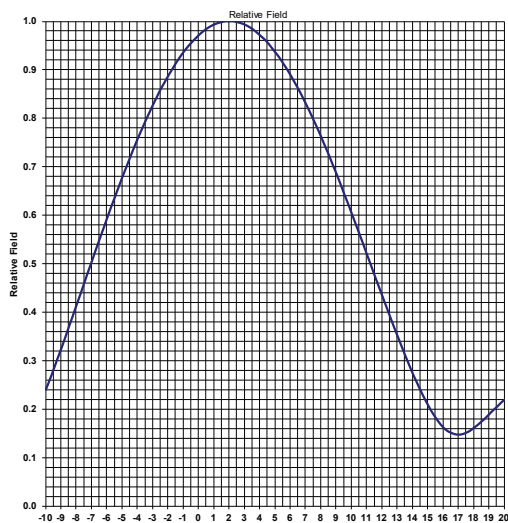
- 4 and 8 bay models
- Full radome enclosure
- One kilowatt input power rating, digital average power
- Null fill standard
- Economical
- Light weight and easy to install
- Includes brackets for mounting to pole or tower leg

The LAL Series UHF television antenna is an economical choice for digital or analog UHF transmission systems. This is a light weight coaxial slotted array antenna single channel antenna for any single UHF channel from 470 to 806 MHz. LAL Series television antennas include a full radome enclosure, unpressurized, for protection from snow and ice and include standard mounting brackets for attachment to tower legs or poles from 1.25 inches (32 mm) to 5 inches (127 mm) in diameter. Mounts and hardware for other configurations is optionally available from ERI.

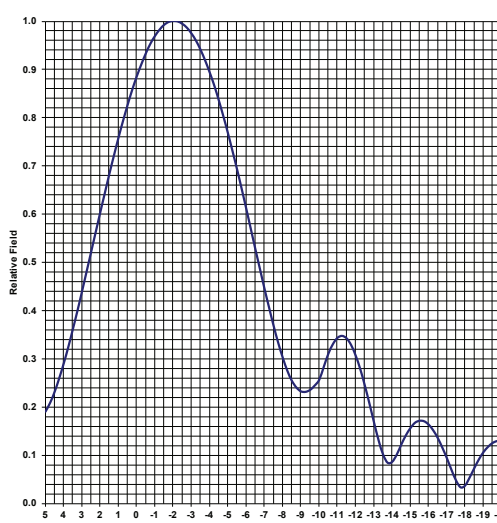
LAL Series antennas are available in 4-bay and 8-bay configurations and have 7/8-inch EIA flanged RF inputs. The LAL Series television antennas are the ideal choice for UHF translator or low power applications.



LAL Series Azimuth Patterns



LAL4 Elevation Pattern



LAL8 Elevation Pattern

LAL Series Low Power UHF Television Antenna

LAL Series Horizontally Polarized Low Power UHF Television Antenna

	LAL4	LAL8
Mechanical Specifications		
Mount:		Side
Number of Bays:	4	8
Radome Color:		White
Ingress Protection Rating (IEC EN 60529):		IP56
Weight (Antenna only):	31.00 lbm (14.06 kilograms)	40.00 lbm (18.14 kilograms)
Weight (Antenna with half inch ice):	50.22 lbm (22.78 kilograms)	59.94 lbm (27.19 kilograms)
Diameter:	4.50 inches (114 mm)	4.50 inches (114 mm)
Length:	10.20 ft (3.11 mtr)	18.20 ft (5.55 mtr)
EPA (Antenna only):	3.07 sq ft (0.29 sq mtr)	5.48 sq ft (0.51 sq mtr)
EPA (Antenna with half inch ice):	5.39 sq ft (0.50 sq mtr)	10.06 sq ft (0.94 sq mtr)
Areas per TIA-222-G		
Electrical Specifications		
Polarization:		Horizontal
Band:		UHF
Peak Gain:	OC 6.84 numeric (8.35 dBd)	13.56 numeric (11.32 dBd)
RMS Gain:	O 4.22 numeric (6.25 dBd)	8.37 numeric (9.23 dBd)
Beam Tilt, Degrees:	2.00-degrees	1.75-degrees
Feed Configuration:		End
RF Input:		7/8-inch 50 Ohm EIA Male
Power Rating, Average:		1.50-kW
Any Single Channel:		14 to 51 (470 to 698 MHz)
VSWR, maximum:		1.35:1

Average power rating for DVB-T, DVB-M, and ATSC operation up to 608 MHz (RF Channel36). Contact ERI for other digital television systems and if operation at higher RF channels is required.

All LAL Series UHF television antennas are shipped include standard mounting brackets for attachment to tower legs or poles from 1.25 inches (32 mm) to 5 inches (127 mm) in diameter. Mounts and hardware for other configurations is optionally available from ERI.

The IEC Test Standard EN 60529 outlines an international classification system for the sealing effectiveness of enclosures of electrical equipment against the intrusion into the equipment of foreign objects (i.e. tools, dust, fingers) and moisture. This classification system uses the letters "IP" ("Ingress Protection") followed by two digits. The first digit of the IP code indicates the degree that persons are protected against contact with moving parts (other than smooth rotating shafts, etc.) and the degree that equipment is protected against solid foreign bodies intruding into an enclosure. The second digit indicates the degree of protection of the equipment inside the enclosure against the harmful entry of various forms of moisture (e.g. dripping, spraying, submersion, etc.).

Prices and specifications subject to change without notice.