

LPH-1A



The LPH-1A provides excellent reliability in medium to long range HF circuits. The rotatable antenna allows communication between a fixed station and mobile stations, such as ships, aircraft, or tactical deployments.

FEATURES

APPLICATIONS

The LPH-1A rotatable log periodic array (RLPA) is a lightweight, high-strength antenna which provides excellent HF performance in the 2 to 30 MHz frequency band. A rotary joint allows continuous rotation.

CHARACTERISITICS

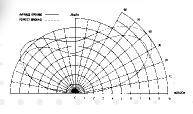
The **LPH-1A** lightweight, rotatable, horizontal log periodicantenna, produced to U.S. Air Force requirements, is suitable for use where limited space and difficult access are encountered. The LPH-1A system is supplied with a 60-foot tower. Primarily constructed of aluminum with the longest single piece being twelve feet, the entire system can easily be roof-mounted. A sixty foot self-supporting tower is also available. The rotator is controlled remotely to any azimuth, with lights indicating the antenna heading.

HORIZONTAL POLARIZATION

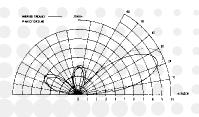
MIL TYPE AS-3250/F

LIGHTWEIGHT

ROTATABLE



F. PARTION PATTERN (VOLTAGE) AT 6.2 MHZ CURNES FOR AVERAGE AND PERFECT GROUN



SHAPE OF A PERMISE AND PENALS AND DEPARTS.

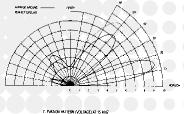
EQUIPMENT SUPPLIED

Array, balun transformer, rotator, sixty-foot guyed tower, and remote control unit.

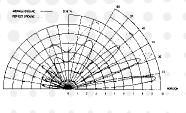
OPTIONAL EQUIPMENT

Tower from 24 to 60 feet (12-foot increments), erection kit, erection winch, and obstruction lights. Coaxial cable, connector adapters andmating adapters. Computer controller with RS-232 interface.

SPECIFICATIONS	1A	1B
FREQUENCY RANGE	2-30 MHz	6.2-30MHz
POWER CAPABILITY	1kW avg/2 kW PEP	4kW avg/8 kW PEP
INPUT IMPEDANCE	50 Ohms unbalanced	50 Ohms unbalanced
VSWR	2.5:1 Maximum	2.5:1 Maximum
INPUT CONNECTOR	Type "N"	Type "N"
GAIN	6.2-12 MHz 9dBi	9dBi
	12-30 MHz 12 dBi	12dBi
FRONT-TO-BACK RATIO	6.2-12 MHz Bi-directional	Bi-directional Bi-directional
	12-30 MHz 10 dB	10 dB
AZIMUTH BEAM WIDTH	65 Degrees nominal	65 Degrees nominal
ROTATION	.3 rpm continuous	.3 rpm continuous
WIND LOADING	100 mph, no ice	100 mph, no ice
	65 mph, ½" ice	65 mph, ½" ice
ERECTED DIMENSIONS (H x L x W)	63'H x 42'L x 70.7'W	63'H x 42'L x 70.7'W
TURNING RADIUS	32 ft	32 ft
SHIPPING WEIGHT	1,800 lbs	1,800 lbs
SHIPPING VOLUME	56 cu ft	56 cu ft



F. FVATION PATTERN (VOLTAGE) AT 15 MILZ CHRVES FOR AVERAGE AND PERFECT GROUND



ELEVATION PATTERS OVELTAGE) AT 30 MHZ Curves for average and perfect ground