

LPH-1C



APPLICATIONS

The LPH-1C provides excellent reliability in medium to long range HF circuits.

FEATURES

The LPH-1C log periodic array is a lightweight, high-strength antenna which provides excellent HF performance in the 2-30 MHz frequency band. The antenna does not utilize a rotator, it has a fixed position mount that allows the antenna to be manually turned in 30 degree increments and locked to the customers desired azimuth.

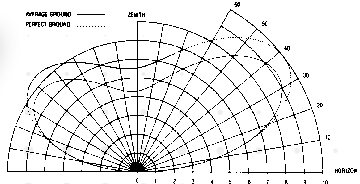
CHARACTERISTICS

The LPH-1C is a lightweight, horizontal log periodic antenna, produced to U.S. Air Force requirements, is suitable for use where limited space and difficult access are encountered. The LPH-1C system is supplied with a 60 foot, guyed 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.

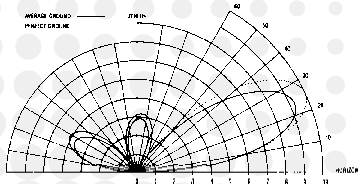
HORIZONTAL POLARIZATION

MANUAL ROTATION

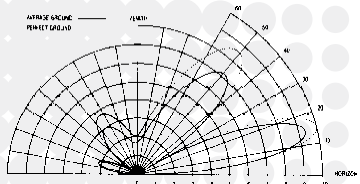
LIGHTWEIGHT



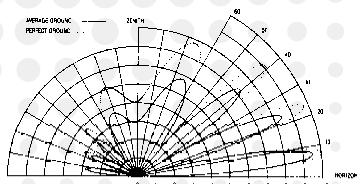
E. PATTERN (VOLTAGE) AT 6.2 MHz
CURVES FOR AVERAGE AND PERFECT GROUND



E. PATTERN (VOLTAGE) AT 12 MHz
CURVES FOR AVERAGE AND PERFECT GROUND



E. PATTERN (VOLTAGE) AT 30 MHz
CURVES FOR AVERAGE AND PERFECT GROUND



E. PATTERN (VOLTAGE) AT 30 MHz
CURVES FOR AVERAGE AND PERFECT GROUND

EQUIPMENT SUPPLIED Array, balun transformer, sixty foot guyed tower, manual (fixed direction) rotator.

OPTIONAL EQUIPMENT Tower from 24 to 60 feet (12-foot increments), erection kit, erection winch and obstruction lights, Coaxial cable, connectors, obstruction lights, self-supported tower (60 foot).

SPECIFICATIONS	1C
FREQUENCY RANGE	2-30 MHz
POWER CAPABILITY	1kW avg/2 kW PEP
INPUT IMPEDANCE	50 Ohms unbalanced
VSWR	2.5:1 Maximum
INPUT CONNECTOR	Type "N"
GAIN	6.2-12 MHz 9dBi 12-30 MHz 12 dBi
FRONT-TO-BACK RATIO	6.2-12 MHz Bi-directional 12-30 MHz 10 dB
AZIMUTH BEAM WIDTH	65 Degrees nominal
WIND LOADING	100 mph, no ice 65 mph, 1/2" ice
ERECTED DIMENSIONS (H x L x W)	63'H x 42'L x 70.7'W
TURNING RADIUS	32 ft
SHIPPING WEIGHT	1,400 lbs
SHIPPING VOLUME	56 cu ft