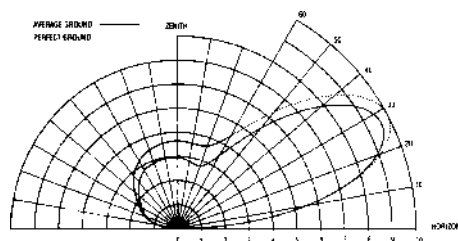
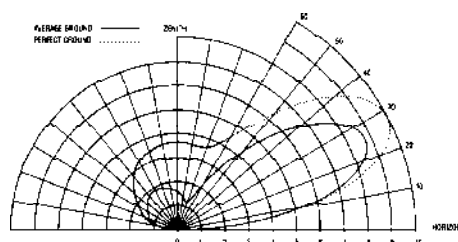


LPH-0500

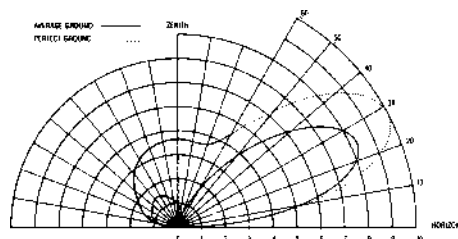
- MEDIUM RANGE
- HORIZONTAL POLARIZATION
- LOG PERIODIC ANTENNAS



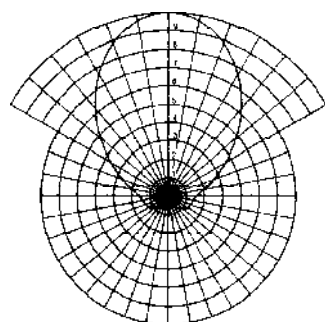
ELEVATION PATTERN (VOLTAGE) AT 2 MHz
CURVES FOR AVERAGE AND PERFECT GROUND



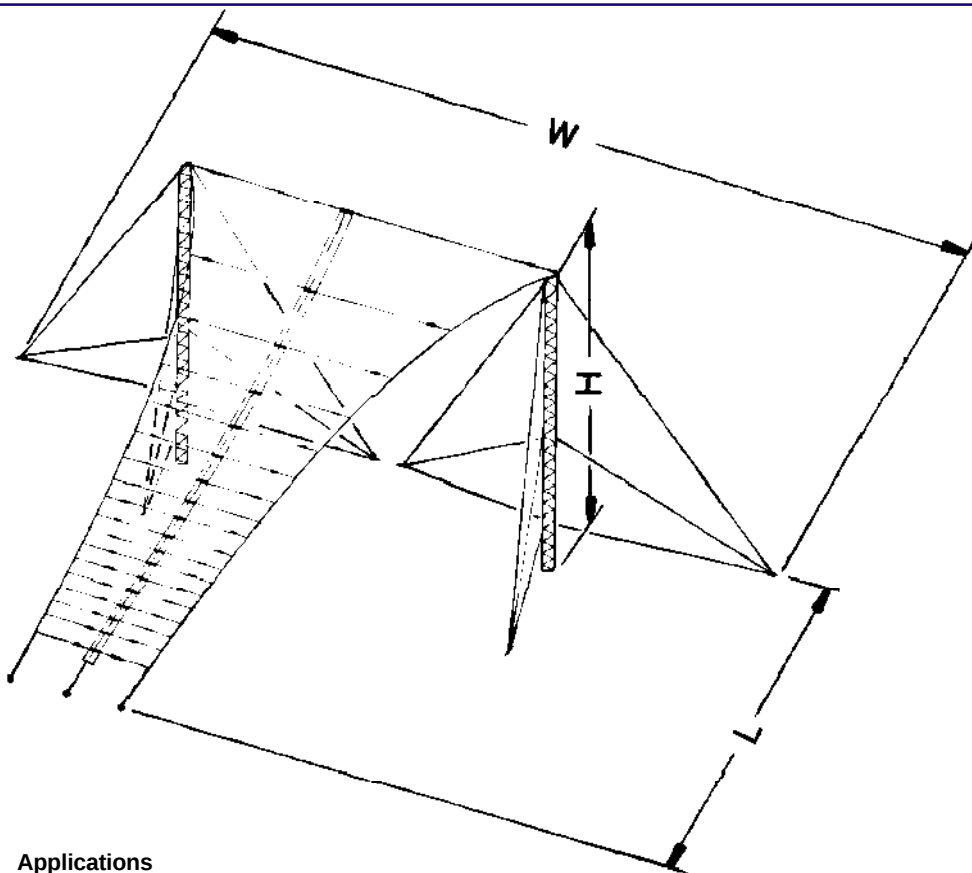
ELEVATION PATTERN (VOLTAGE) AT 10 MHz
CURVES FOR AVERAGE AND PERFECT GROUND



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



AZIMUTH PATTERN (VOLTAGE)
FREQUENCY: 8 MHz



Applications

The LPH-0500 series of horizontally polarized, fixed station, log periodic antennas are normally used for medium range communications in the 2-30 MHz frequency band.

Features

The LPH-0500 series has high gain and low VSWR. All RF connections are galvanic compatible and well-rounded to minimize the possibility of corona at high power levels. Multiple antennas can share common towers in custom configurations.

Characteristics

The LPH-0500 series of antennas are

broadband log periodic arrays and will operate within the frequency range for each applicable model without any adjustment or tuning.

Equipment Supplied

Prefabricated aluminum tower, two bolted 6061-T6 aluminum towers, guy wires, anchors, balun and spare hardware.

Optional Equipment

Galvanized towers, obstruction ladders, climbing devices, erection kit, repair kit, and repair tool kit. Coaxial cable, connector adapters and mating adapters.



SPECIFICATIONS

Gain (Perfect Ground)	12 dBi
Back and Side Lobe	14 dB minimum
Input Impedance	50 Ohms
VSWR	2:1 maximum
Power Capability	
/1	receiving to 1 kW avg/2 kW PEP
/2	10 kW avg/20 kW PEP
/3	25 kW avg/50 kW PEP
Wind Loading	120 mph

MODEL	0504	0506	0508	0511
Frequency Range	2-30 MHz	3-30 MHz	4-30 MHz	5.4-30 MHz
Maximum Height (H)	252 ft	170 ft	125 ft	100 ft
Length (L)	400 ft	268 ft	200 ft	148 ft
Width (W)	616 ft	412 ft	308 ft	228 ft
Shipping Weight (lbs)	7,300	5,700	4,200	3,200
Shipping Volume (cu ft)	150	120	90	80