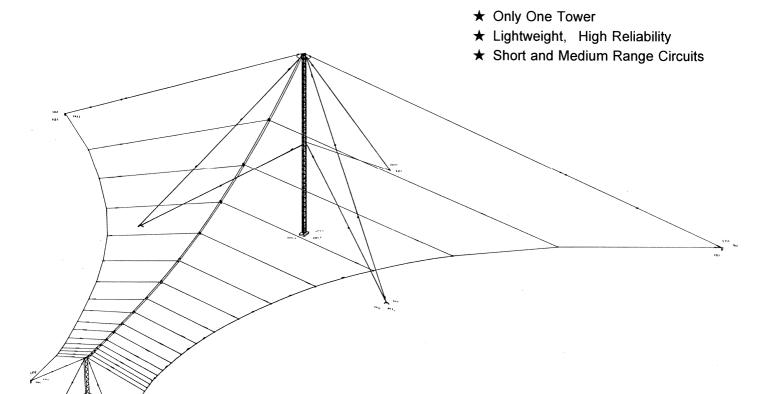


HF Log-Periodic Antenna CL247-x



Model CL247M

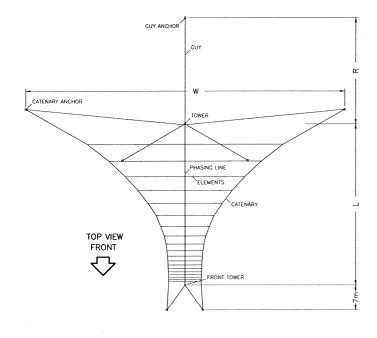
The CD short-medium range CL247 series antenna system has been designed to provide, unsurpassed short to medium range performance through their respective frequency ranges. Due to the characteristics in log-periodic designes, these system provide radiation efficiency which is maintained at a high level. This high radiation efficiency assures that maximum input power is radiated rather than partially dissipated. These systems exhibit VSWR characteristics below 2.0:1 across the designed frequency spectrum with the VSWR remaining below 1.6:1 over 80 percent of the specified bandwidth. The radiation pattern of these antennas exhibits a front-to-back ratio exceeding -10 dB with front-side ratio exceeding 20dB relative to the principle lobe intensity. These characteristics assure a minimum of off-path interference. Radiation pattern characteristics are shown in the specification summary and have been examined through calculations to provide maximum front gain at take-off angles optimum to specified or required path distance. Ground screens are not a part of these system nor are they required, due to insignificant effects upon performance over average or poor earth.

SPECIFICATIONS

Model No.	CL247L	CL247B	CL247M		
Frequency Range	2~30MHz	3~30MHz	4~30MHz		
Forward Gain	10dBi	11dBi	12dBi		
Azimuth Half Power					
Beam Widt	h 80°~60°	75°∼60°	70°~55°		
Front/Back Ratio	10dB	10dB	10dB		
VSWR, Maximum	2:1	2:1	2:1		
Power Handling					
Capability	- Refe	- Refer to Note Below -			
Input Impedance	50 ohms	50 ohms	50 ohms		
Wind Loading					
Capability	45 m/s	45 m/s	45 m/s		
System Net Weight	1950 Kg	1100 Kg	1050 Kg		

Note: Use an appropriate sub-model number when specifying or ordering a system.

Power	Connector
CL247x-1. Receive	-N- Female
CL247x-1. Transmit, 1kW/2kW PEP	-N- Female
CL247x-3. Transmit, 5kW/10kW PEP	7/8" EIA Female
CL247x-4. Transmit, 10kW/20kW PER	1-5/8" EIA Female



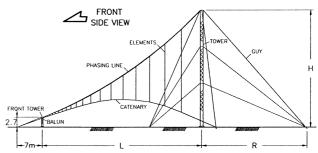
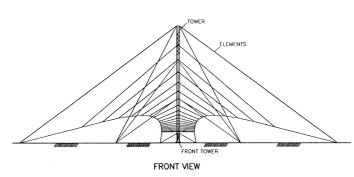


TABLE-1. Outline Dimentions.

MODEL	Н	L	W	R
CL247M	32	44	88	29
CL247B	32	44	88	29
CL247L	42	60	116	38

Dimention in Meter.



Elevation and Azimuth Patterns (Azimuth Pattern at Elevation Angle of Beam Max.)

