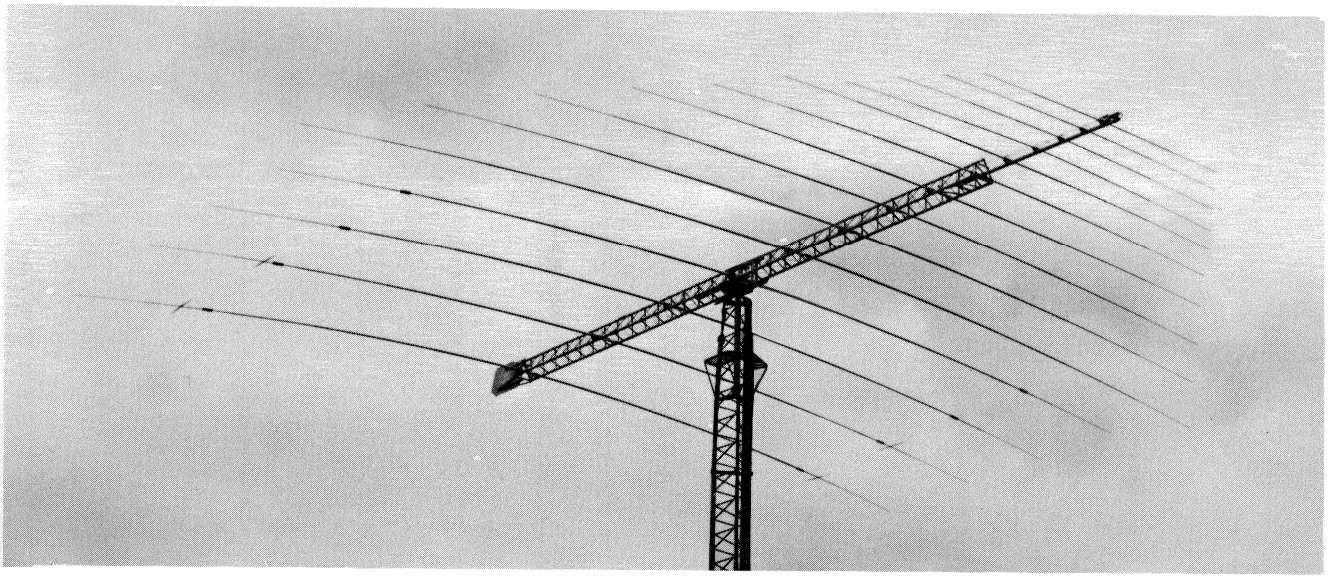
Commercial HF L.P. Antenna

CLP430R

4.2 TO 26 MHz

- ★ Small Size
- ★ Rugged Construction
- ★ Wide Range Operation
- ★ Rotatable or Fixed Operation



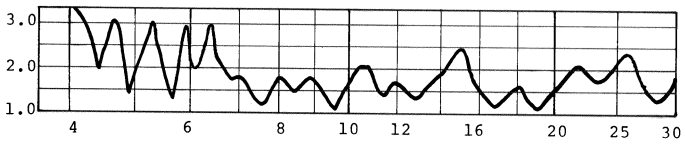
The rotatable log periodic antenna provides a variety of features and characteristics making it outstanting as a wide band antenna with high-level performance unmatched by any other type of antenna.

Through the technology evidencing by CD's long years of experience, this antenna provides 10~20 dB better performance in the range of both 200~2,000 km and 10,000~18,000 km than non-directional antennas, 3~6 dB or above than an ordinaly dipole antenna available as well. Since it features a high S/N ratio, in actual operation, even better results are possible, making it fully deserving of the title "high performance." In wide band coverage, this antenna provides good directional gain for high-performance results which cannot be obtained with any other rotatable antenna.

Feed point impedance of this antenna is 50 ohms, and a coaxial rotary joint is provided at the center of the mast, with a transmission line along the inside of the rotatable mast which joins directly with the rotary joint. Ease of construction makes it simple to install the antenna in any location, and an array of optional accessories is also available to expand the scope of usefulness. Only the finest and most suitable materials have been used in its construction, primarily strong, lightweight aluminum alloy.

To assure the highest quality for long durability and reliable service.

VSWR



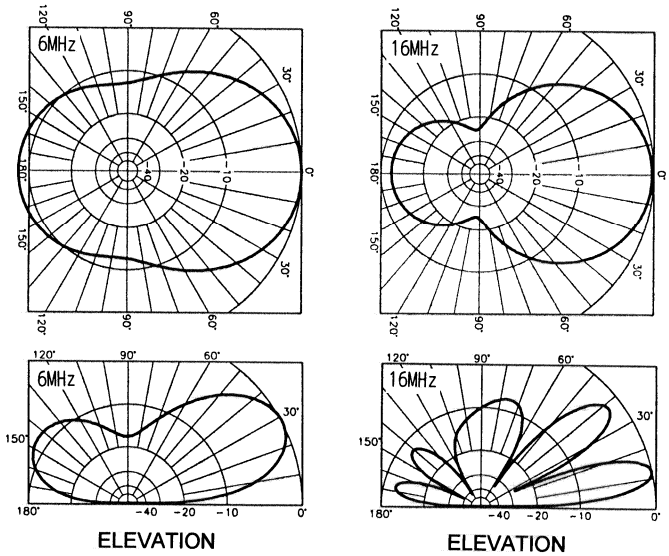
CLP430R VSWR CHART in MHz

SPECIFICATIONS

	CLP430R
Frequency Range	4.2 to 26 MHz
Polarization	Horizontal
Forward Gain	(Above 8 MHz) 8~10dBi
	(Below 7 MHz) 6~ 8dBi
Front To Back Ratio	8~15 dB
Half Power Beam Width	60°~90°
RF Power Handling Capability (Ave/PEP)	1/3 kW
Input Impedance	50 ohms
VSWR. Maximum	(Above 7MHz) 2.5:1
	(Below 6.5MHz) 3.0:1
Input Connector	Type -NR-
Longest Element Length	19.8 m
Boom Length	15m
Wind Loading Capability	45 m/s
Weight	160 Kg
Suggested Antenna Height	23 m/h
Recommended Rotator	Model RC20

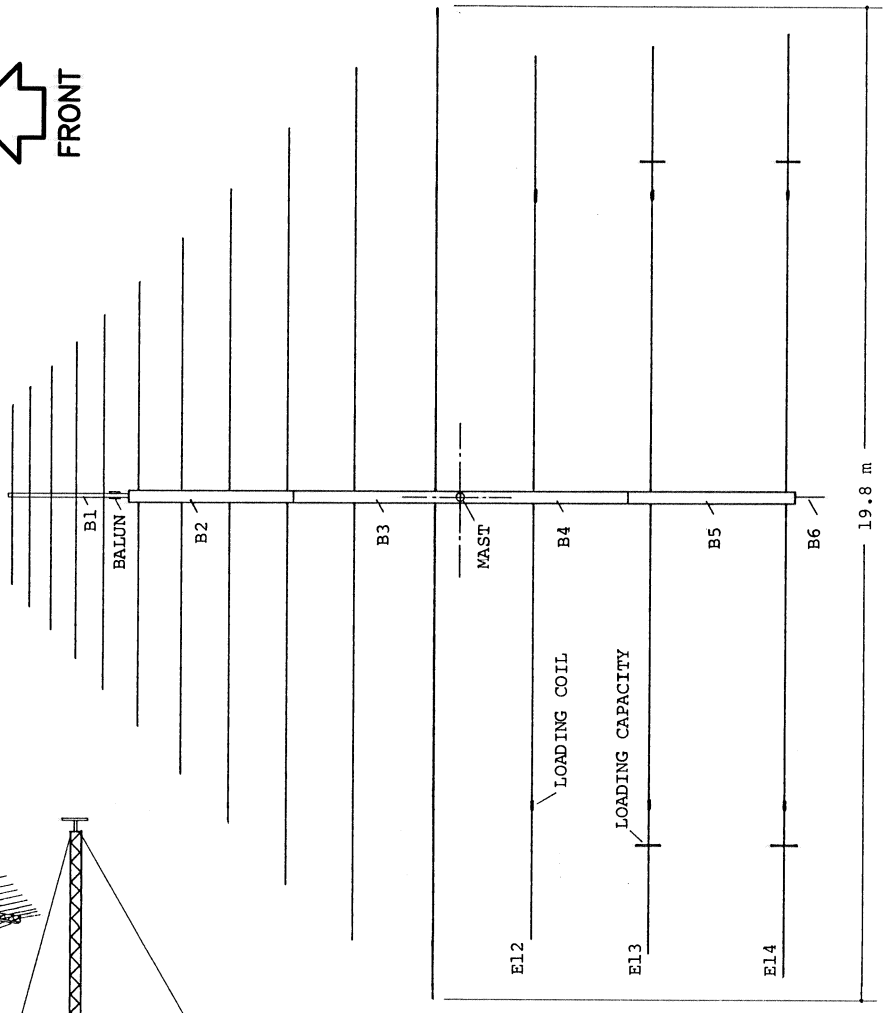
RADIATION PATTERNS

(Azimuth pattern at elevation angle of beam maximum)

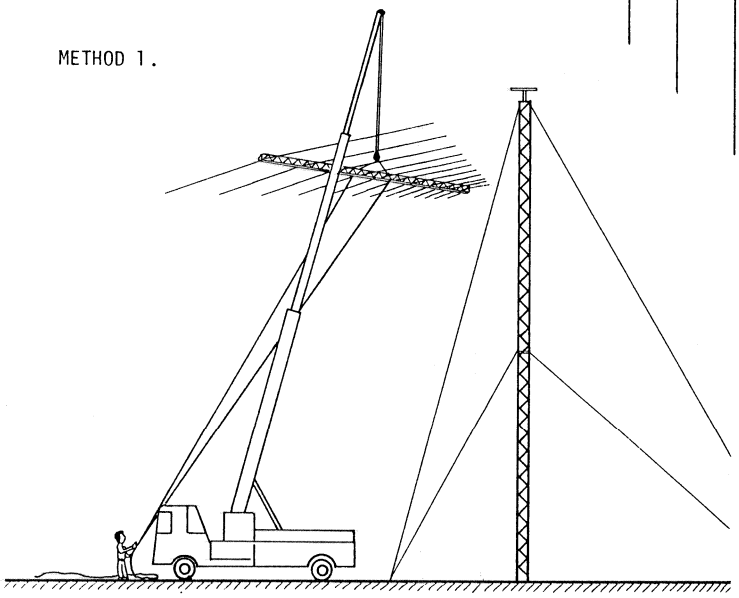


ELEVATION ELEVATION

Antenna Installations



METHOD 1.



INSTALLATION SCHEDULE

1. TEMPORALLY REMOVE THE LOWER SIDE GUY ROPE, AND HOIST THE ANTENNA ONTO THE POSITION AS SYOWN IN THE DRAWING.
2. RE-GUYING THE LOWER SIDE GUY ROPE.
3. TEMPORALLY REMOVE UPPER GUY ROPE, HOIST THE ANTENNA ONTO THE TOWER TOP, THEN RE-GUYING THE UPPER GUY ROPE.
4. INSTALL THE ANTENNA ON THE MAST BRACKET.

METHOD 2.