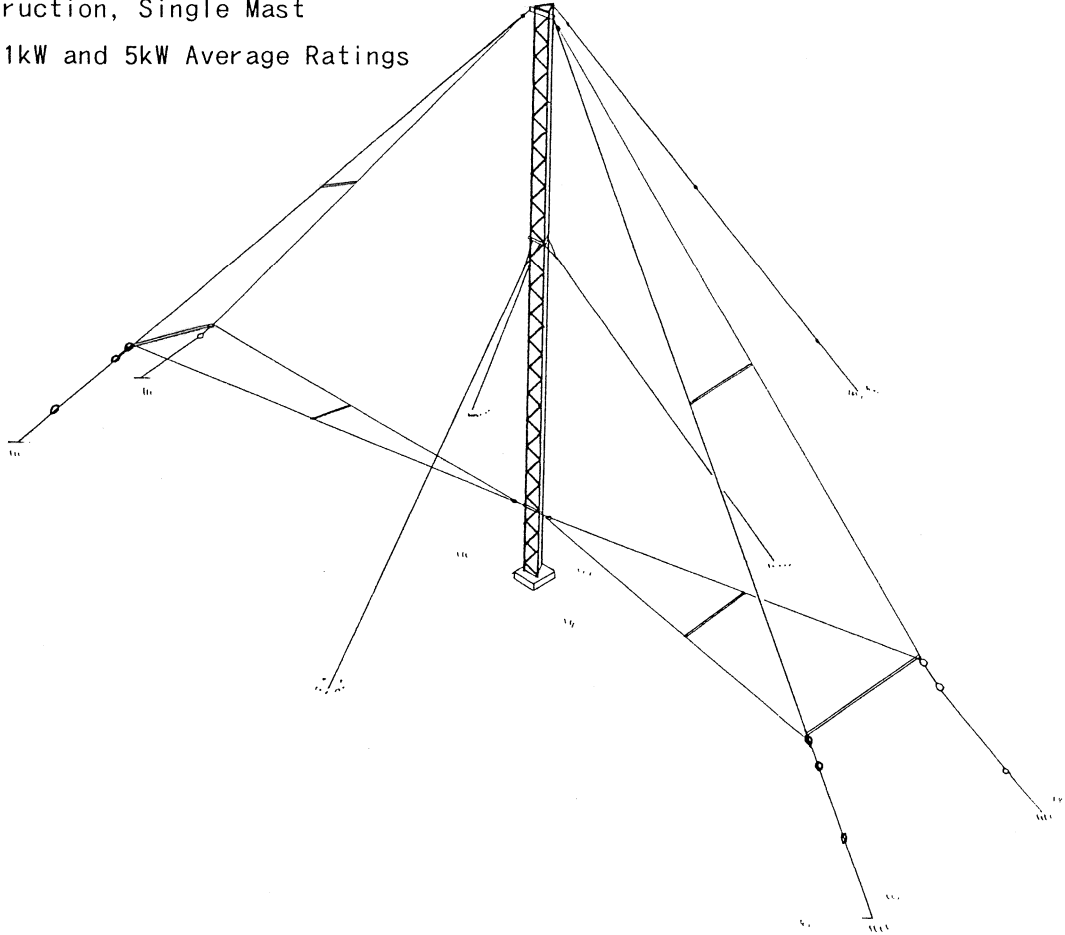




# Terminated Delta Loop Antenna HR230

- ★ Reliable Communications, Small Land Area
- ★ Broadband Operation
- ★ Easy Construction, Single Mast
- ★ Transmit, 1kW and 5kW Average Ratings

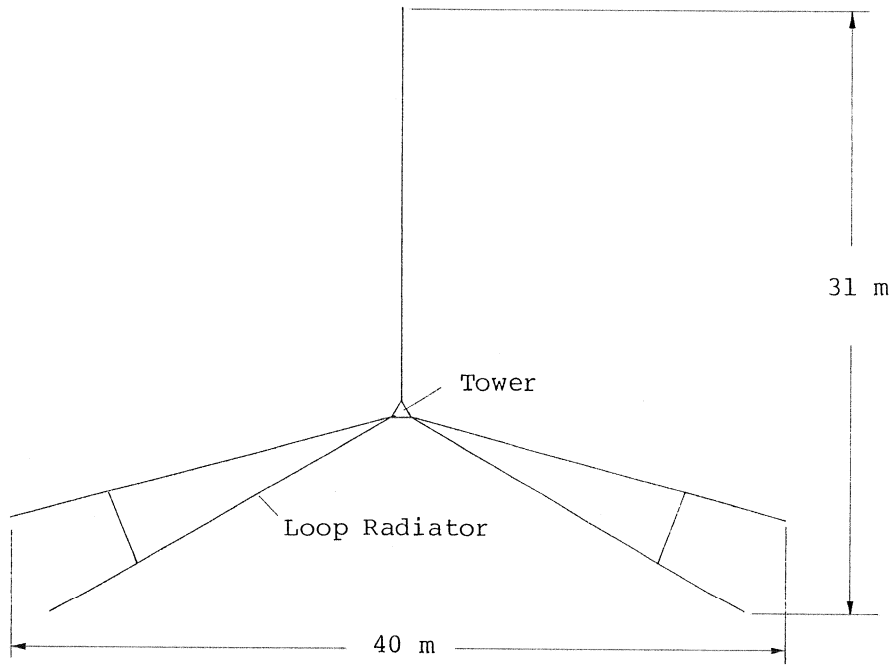


The CD Model HR230-x is a broadband terminated loop antenna which provides excellent performance over short, medium range circuits. The HR230 is designed to direct energy straight overhead and in addition, HR230 has omni-directional and bi-directional azimuth plane pattern, provides optimum coverage for communication centers, airports for ground-air and shore stations for shore-ship communications. Structurally, the antenna supported by a single galvanized steel tower, there by decreasing installation costs, maintenance costs, and the required land area. The antenna is supplied complete with a balun transformer for direct connection to a coaxial 50 ohm line.

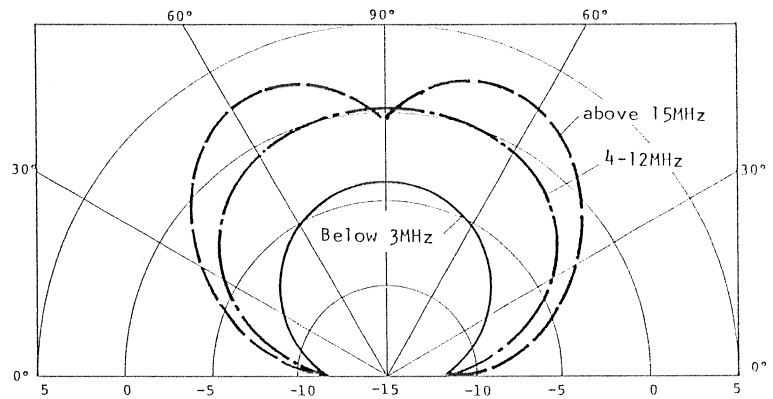
SPECIFICATIONS	HR230-1	HR230-2
Polarization	-Vertical and Horizontal-	
Frequency Range	1.6-30 MHz	2-30 MHz
Gain	-3- 3 dBi	-3- 3 dBi
Impedance	50 ohms	50 ohms
VSWR	Nominal 2:1 Maximum 2.5:1	Nominal 2:1 Maximum 2.5:1
Antenna Height	30 m	25 m
Land Area(Guy-Guy)	40 x 33m	35 x 27m
Antenna Weight(Net)	600Kg	530Kg
Wind Loading Capability	45m/s	45m/s
Concrete Volume	4m <sup>3</sup>	3m <sup>3</sup>

**Power Rating:**

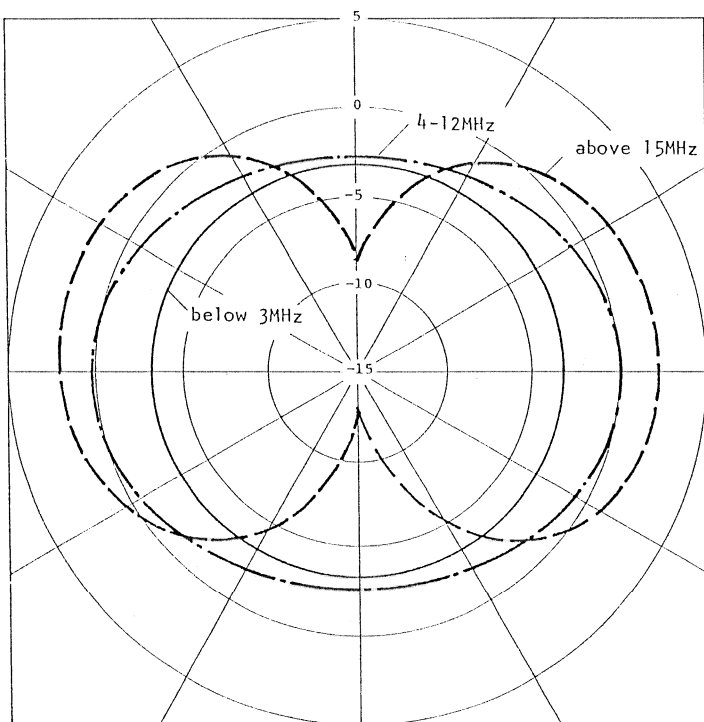
- |        |     |          |            |
|--------|-----|----------|------------|
| CW/PEP | -1. | 50W/100  | (-N-)      |
|        | -2. | 1kW/2kW  | (-N-)      |
|        | -3. | 5kW/10kW | (7/8" EIA) |



HR230, Plan View



HR230-x, Elevation Patterns.  
gain in dBi



Azimuth Patterns at elevation angle of beam maximum. gain in dBi.

HR230-x, Azimuth Patterns at elevation angle of beam maximum.