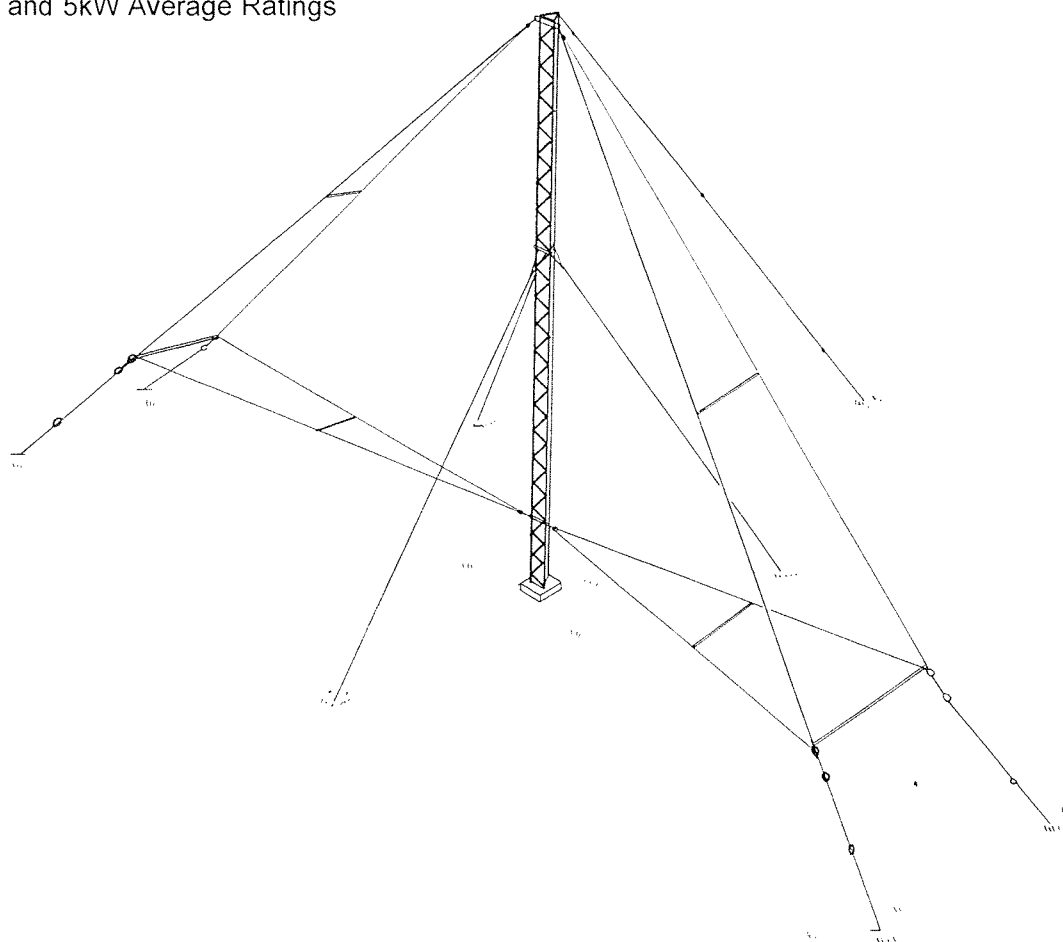




Terminated Delta Loop Antenna

HR230

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



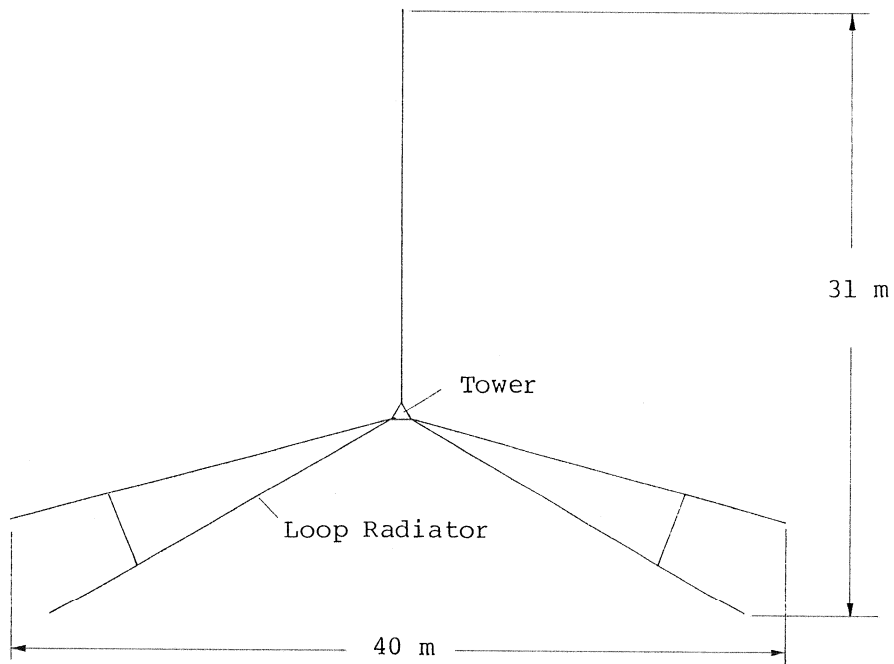
The CD Model HR230-x is a broadband terminated loop antenna which provides excellent performance over short, medium range circuits. The HR230 is designed to direct energy straight overhead and in addition, HR230 has omni-directional and bi-directional azimuth plane pattern, provides optimum coverage for communication centers, airports for ground-air and shore stations for shore-ship communications. Structurally, the antenna supported by a single galvanized steel tower, thereby 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 ohms line.

Power Handling Capability:

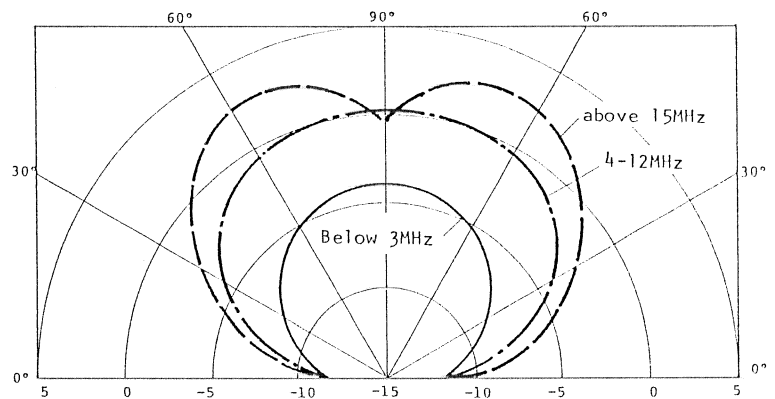
Power (CW/PEP)	Connector
HR230-x-1. Transmit, 50W/100W	-N- Female
HR230-x-2. Transmit, 1kW/2kW	-N- Female
HR230-x-3. Transmit, 5kW/10kW	7/8" EIA Female

SPECIFICATIONS

Model No.	HR230-1	HR230-2
Frequency Range	1.6~30 MHz	2~30 MHz
Polarization	Horizontal	
Gain	-7~+5 dBi	
Impedance	50 ohms	
VSWR, Nominal	2.0:1	
Maximum	2.5:1	
Antenna Height	30 m	25 m
Land Area (Guy-Guy)	40 x 31 m	35 x 27 m
System Net Weight	600 kg	530 kg
Wind Loading Capability	45 m/s	
Concrete Volume	4 m ³	3 m ³

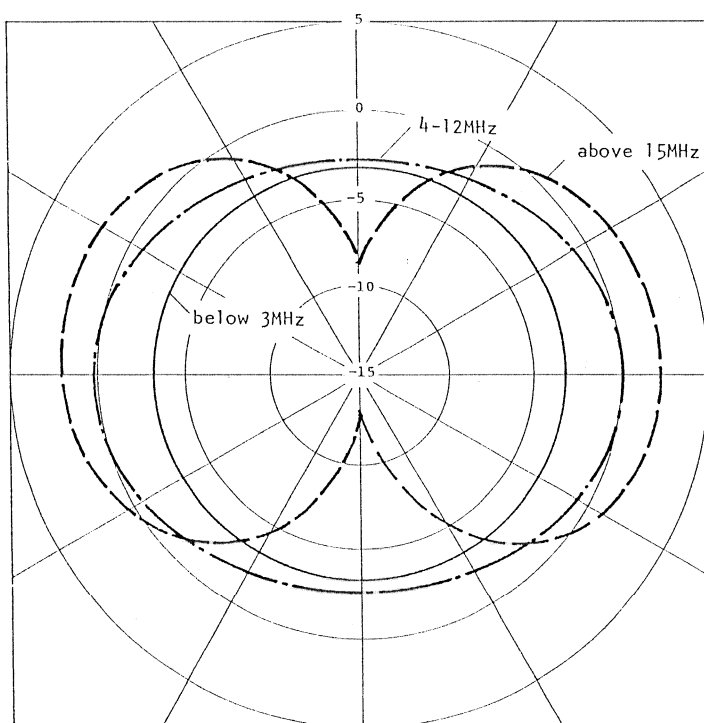


HR230, Plan View



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.