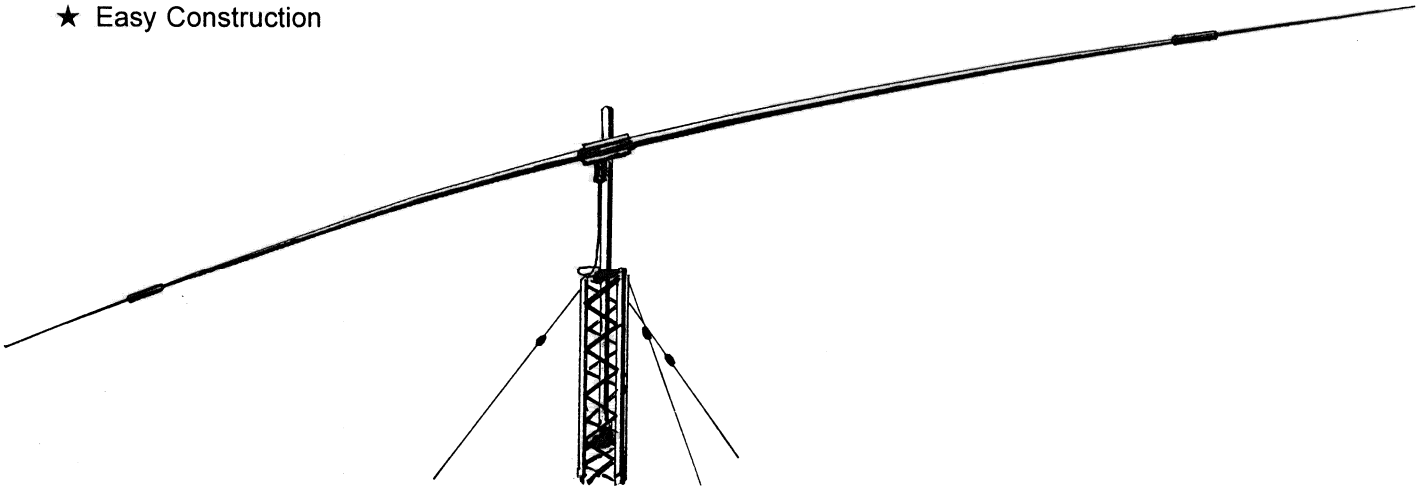
2 Band Trap Dipole Antenna 630D

6~30 MHz Adjustable

★ Single Element
★ Aluminum Tujbing Element
★ Easy Construction



630D series are 2 band dipole antenna. Designed and built to satisfy severe commercial requirements where good directive gain, easy construction and low construction costs are desired. This series do not requires 2 elements as double dipole antenna. 630 D series are single element length to maximum 50 percent of a full size model. which means it is valid for space saving, minimize construction costs. Construction consist of aluminum tubing element, which removes the necessity of twin mast as used for a wire element antenna and other conventional antennas. Rugged die-cast aluminum clamp, hot dip galvanized steel bolts are used for the hardwares. Band width on these antenna with a 2.0:1 VSWR is approximately 4 percent on high band, 2 percent on low band. The center frequency on low band is 20 percent adjustable. The frequency separation between high and low band should be 25 percent of low band center frequency.

SPECIFICATIONS

Model No.	630D-1	630D-2
Frequency Range	3~10 MHz	6~20 MHz
(Frequency range is available upon request.)		
Band Width, Figure 2	- 1~4% -	
Impedance	50 ohms	50 ohms
VSWR (at Resonance)	1.5 : 1	1.5 : 1
Element Length (Approx.)	18 m	18 m
Wind Loading Capability	45 m/s	45 m/s
Suitable Mast Diameter	50~61 mm	50~61 mm
Weight (Approx.)	22 Kg	15 Kg

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

Power	Connector	
630D-1. Receive, 500W	Type -N- Female	
630D-2. Transmit, 1kW	Type -N- Female	- All the models are equiped with balun. -
630D-3. Transmit, 5kW	Type -LC- Female	

High performance CD wave traps challenge full-size antenna elements by offering the same stable VSWR due to combined high Q factor and high power handling capability (Q is 250 minimum).

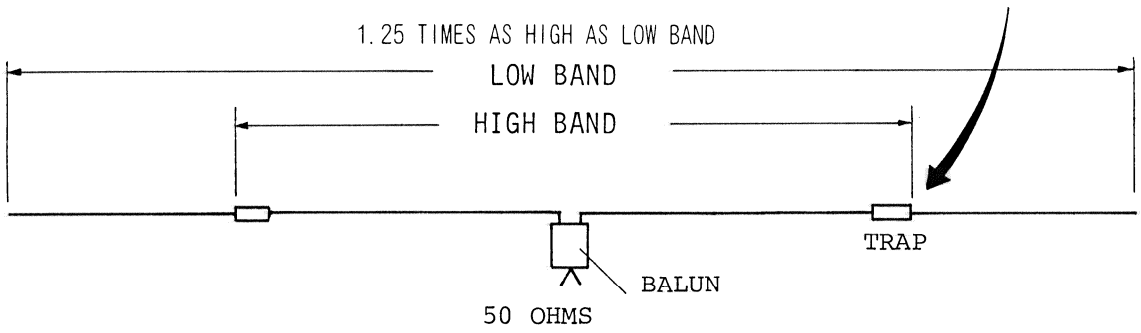


Figure 1. 630D-x, Element Simplified Schematic.

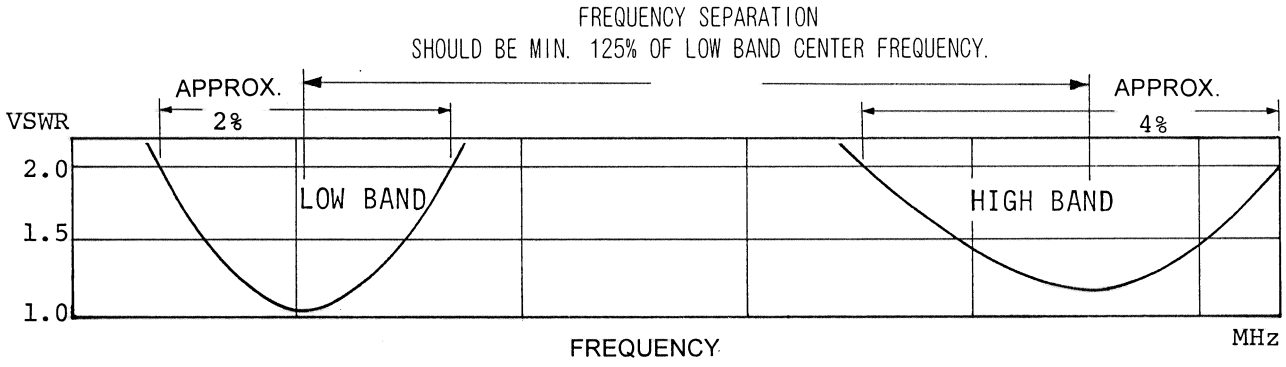
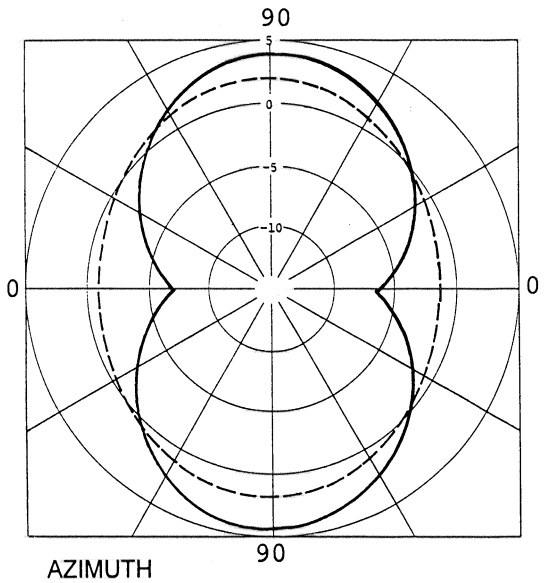


Figure 2. 630D-x, Band Width and Frequency Separatio.



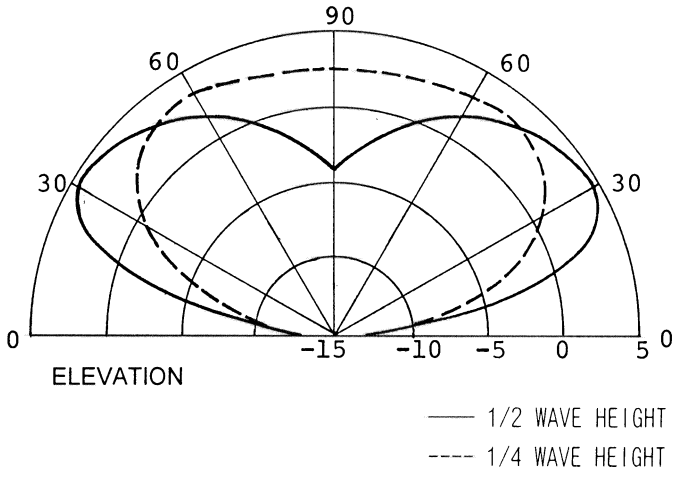


Figure 3. Radiation Patterns.