

# Sinclair SRL-224 Antenna

Sinclair Model 224 is a broadband, high gain antenna offering omni-directional or offset coverage. The antenna pattern can be easily changed from a 6 db omni-directional mode to a 9 db offset gain pattern. The 224 antenna has been designed to use in areas where ice, snow and wind demand an antenna of superior construction and design. When packed for shipment the 224 is less than 10 ft. in length.

Model 222 is similar to the 224 except it has two dipoles for 3 db omni-directional or 6 db offset gain patterns. It is 10 ft. in length.

Both antennas utilize solid aluminum alloy rod folded dipoles with unique reinforced dipole feed. The masts are thick wall aluminum alloy pipe. Clamp set included.

## ELECTRICAL SPECIFICATIONS

### Model 224

Frequency Range .....	132-174 MHz
Gain (Dipole Reference) .....	6 db (omni), 9 db (offset)
Vertical Beamwidth (½ Power Points) .....	16°
Bandwidth at 1.5:1 VSWR .....	10 MHz
Impedance .....	50 Ohms
Power Rating .....	500 Watts
Lightning Protection .....	dc ground
Termination .....	Type 'N' Female on Flexible Lead of RG-213/U Cable

## MECHANICAL SPECIFICATIONS

### Model 224

Length .....	20 ft. (6.1 m)
Weight .....	35 lbs. (15.88 kg)
Rated Wind Velocity .....	100 M.P.H. (160.9 kph)
Rated Wind Velocity with 0.5" radial ice .....	75 M.P.H. (120.7 kph)
Projected Area .....	3.8 sq. ft. (.34 sq. m)
Projected Area with 0.5" radial ice .....	5.8 sq. ft. (.52 sq. m)
Horizontal Thrust at 100 M.P.H. (no ice) .....	126 lbs. (57.15 kg)
Mounting .....	Two No. 117 clamps supplied for parallel mounting to a 1.5" to 2.375" (3.8 - 6.0 cm) O.D. Support.

## ORDERING INFORMATION

- Specify frequency range.
- Specify termination of other than N female.
- Specify mounting clamps if other than No. 117 Clamps.

