

APPLICATIONS

The LMV-0200/2900 series antennas are fixed station, vertically polarized, log periodic monopole antennas suitable for short range groundwave circuits in the 2-30 MHz frequency band.

FEATURES

The antenna series is a multi-stranded array utilizing corrosion resistant materials and components requiring low maintenance. It also utilizes a smaller footprint for use where space is a consideration.

CHARACTERISTICS

The LMV-2900 series utilizes independent LMV-0200 series curtains arrayed in a rosette configuration distributed around a single support tower. The antenna series provides independent sector coverage.

EQUIPMENT SUPPLIED

Prefabricated alumoweld curtain, bolted 6061-T6 aluminum tower, guy wires, front pole guys, anchors, copper ground screen, spare hardware, and impedance matching transformer.

OPTIONAL EQUIPMENT

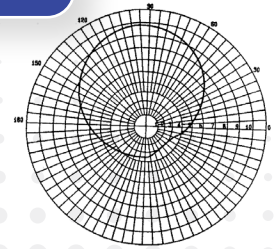
Galvanized welded steel tower, wood pole, obstruction lights, ladder, climbing devices, erection kit, repair kit, and repair tool kit. Coaxial cable, connector adapters and mating adapters.

LONG RANGE

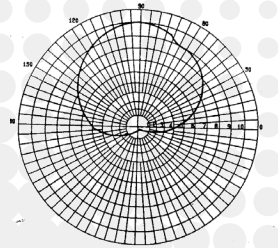
VERTICAL POLARIZATION

MONOPOLE LOG PERIODIC

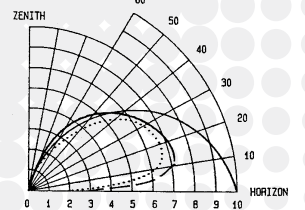
STEERABLE BEAM



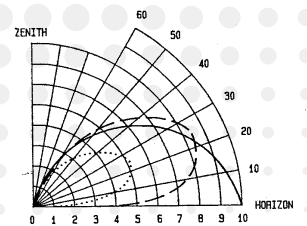
F = 3 MHz



F = 6 MHz



F = 2.5 MHz



F = 10 MHz

SPECIFICATIONS

| | |
|-------------------------|-----------------------------------|
| GAIN (PERFECT GROUND) | 10 dBi |
| GAIN (IMPERFECT GROUND) | 5 dB over 1/4 wavelength monopole |
| BACK AND SIDE LOBE | 14 dB minimum |
| INPUT IMPEDANCE | 50 Ohms unbalanced |
| VSWR | 2:1 typical |
| POWER CAPABILITY | |
| /1 | receiving to 1 kW avg/2 kW PEP |
| /2 | 10 kW avg/20 kW PEP |
| /3 | 25 kW avg/50 kW PEP |
| WIND LOADING | 120 mph |

| MODEL | 0205 | 0207 | 2905 | 2907 |
|-------------------------|------------|------------|------------|------------|
| FREQUENCY RANGE | 2.5-30 MHz | 3.5-30 MHz | 2.5-30 MHz | 3.5-30 MHz |
| MAXIMUM HEIGHT (H) | 120 ft | 100 ft | 120 ft | 100 ft |
| LENGTH (L) | 392 ft | 278 ft | 542 ft | 410 ft |
| WIDTH (W) | 218 ft | 156 ft | 542 ft | 410 ft |
| CURTAIN LENGTH (C) | 230.8 ft | 165 ft | 230.8 ft | 165 ft |
| SHIPPING WEIGHT (lbs) | 6,500 | 5,000 | 20,000 | 15,000 |
| SHIPPING VOLUME (cu ft) | 200 | 150 | 700 | 600 |