

LOH-2

- INSTRUMENT LANDING SYSTEM
- LOCALIZER ANTENNA ARRAY
- AZIMUTH GUIDANCE



Applications

The LOH-2 instrument landing system localizer antenna array is used to provide azimuthal guidance to aircraft for accurate alignment with runway centerline during approach and landing of an aircraft under instrument flight rules. The LOH-2 is designed to be fed by a 108-112 MHz, 50 Ohm, 200 watt, RF transmitter delivering carrier power amplitude modulated by 90 Hz and 150 Hz sidebands, and sideband power in 90 Hz and 150 Hz sidebands only. All fifteen elements radiate carrier signal in-phase to produce a maximum lobe coincident with runway centerline. Fourteen elements arranged in seven symmetrical pairs radiate sideband energy in phase opposition to produce a null coincident with the runway centerline. The monitor circuit provides input to an alarm system.

Features

All elements are equipped with de-icing heaters, thermostats, and fuses. The outboard antennas can have optional obstruction warning lights.

Characteristics

The LOH-2 is designed to withstand 100 mph wind, with 1/2-inch radial ice, and operate in the temperature range of -50°C to +70°C.

Equipment Supplied

An LOH-2 array includes fifteen radiating elements, three monitor antennas, RF and AC power distribution network, monitor signal combining circuits, RF and AC distribution cables, and two aircraft obstruction lights.

Shipping Information

The LOH-2 is packaged for export shipment and has an approximate shipping weight of 4690 pounds and an approximate shipping volume of 312 cubic feet.

