## DATA

**GENERAL**

- **Heater**: Voltage 4.0 ac or dc volts.
- **Current**: 1.0 amp.
- **Direct Inter-electrode Capacitances (Approx.)**
  - Modulator to All Other Electrodes: 15 μμf.
  - Anode 1 to All Other Electrodes: 15 μμf.
  - Cathode to All Other Electrodes: 14 μμf.
- **Screen**: Aluminium Backed.
- **Fluorescence**: Orange.
- **Afterglow**: Long.
- **Persistence of Afterglow**: Electrostatic.
- **Focusing Method**: Magnetic.
- **Deflection Method**: Any.
- **Overall Length**: 445 mm. ± 7 mm.
- **Greatest Diameter of Bulb**: 230 mm.
- **Minimum Useful Screen Diameter**: 190 mm.
- **Mounting Position**: American.
- **Anode Cap**: International Octal.

![Diagram of the 9LO1A radar tube](image)

**Maximum Ratings**

- **Final Anode Voltage**: 10000 volts.
- **Anode 1 Voltage**: 1450 volts.
- **Modulator Voltage**:
  - Negative bias value: 100 volts.
  - Positive bias value: 0 volts.
- **Peak Heater-Cathode Voltages**:
  - Heater negative with respect to cathode: 125 volts.
  - Heater positive with respect to cathode: 125 volts.

**Typical Operation**

- **Final Anode Voltage**: 8000 volts.
- **Anode 2 Voltage**: 1240 volts.
- **Anode 1 Voltage—See Note 3**: 1350 volts.
- **Modulator Voltage for cut-off**: −75 volts.
- **Spot Position—See Note 4**

**Note 3.** Anode 1 must always be at least 50 volts positive to Anode 2.

**Note 4.** The centre of the undeflected focused spot will fall within a circle having 10 mm. radius concentric with the centre of the tube face.
ALL SIZES IN MILLIMETRES

Note 1. The plane through the tube axis and the spigot key may vary from the plane through the tube axis and the anode cap by an angular tolerance (measured about the tube axis) of 10°. The position of the anode cap along the tube axis is between A and B and is on the same side of the tube as the spigot key.

Note 2. Reference line is determined by position where gauge 36 mm. I.D and 50 mm. long will rest on bulb cone.