

DIAMETER 9" NOMINAL

9LO1A

9LO1A Radar Tube

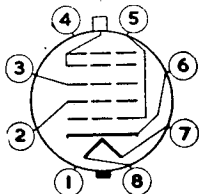
ELECTROSTATIC FOCUS. MAGNETIC DEFLECTION

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 μ f.	
Anode 1 to All Other Electrodes	15 μ f.	
Cathode to All Other Electrodes	14 μ f.	
Screen :		Aluminium Backed.
Fluorescence		Orange.
Afterglow		Orange.
Persistence of Afterglow		Long.
Focusing Method		Electrostatic.
Deflection Method		Magnetic.
Overall Length		445 mm. \pm 7 mm.
Greatest Diameter of Bulb		230 mm.
Minimum Useful Screen Diameter		190 mm.
Mounting Position		Any.
Anode Cap		American.
Base		International Octal.

- Pin 1—No connection.
- Pin 2—Anode 1.
- Pin 3—Anode 2.
- Pin 4—No connection.



- Pin 5—Modulator.
- Pin 6—Cathode.
- Pin 7—Heater.
- Pin 8—Heater.
- Side arm connection—Anode Cap.

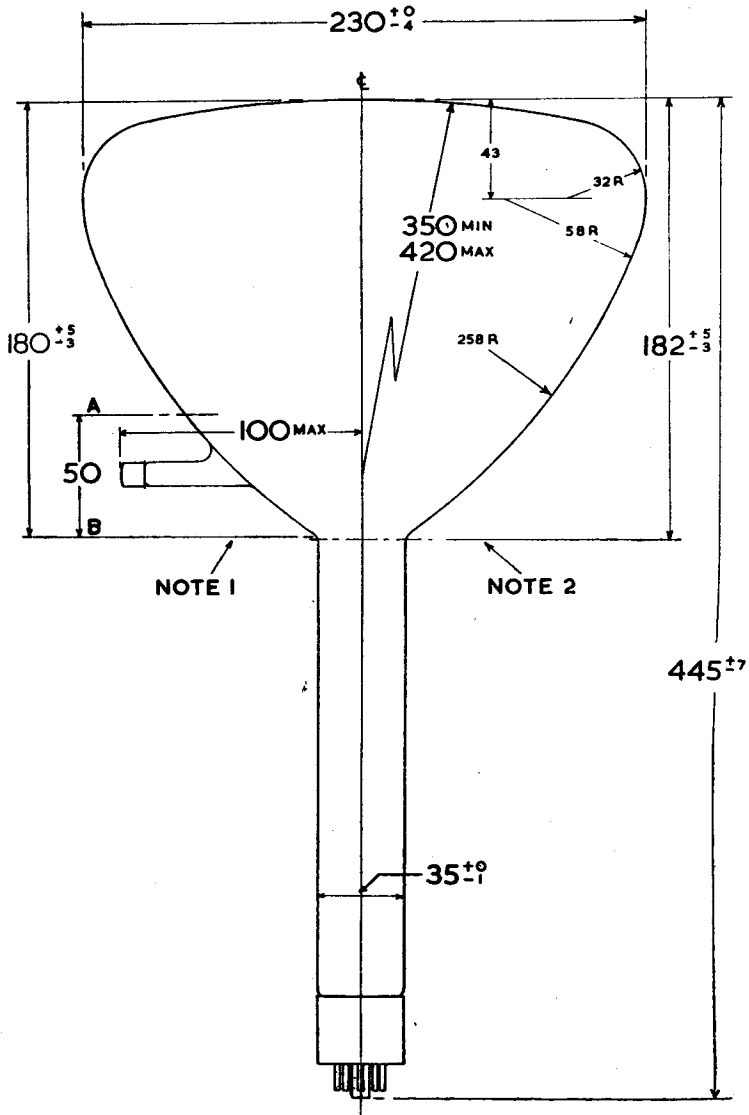
Maximum Ratings

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.