

DIAMETER 5" NOMINAL

5L01A

5L01A Radar Tube

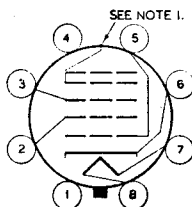
ELECTROSTATIC FOCUS. MAGNETIC DEFLECTION

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	. . . . .	315 mm. \pm 6 mm.
Greatest Diameter of Bulb	. . . . .	127.5 mm.
Minimum Useful Screen Diameter	. . . . .	108 mm.
Mounting Position	. . . . .	Any.
Anode Cap	. . . . .	Recessed Small Ball.
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.
- Cap—Final Anode.

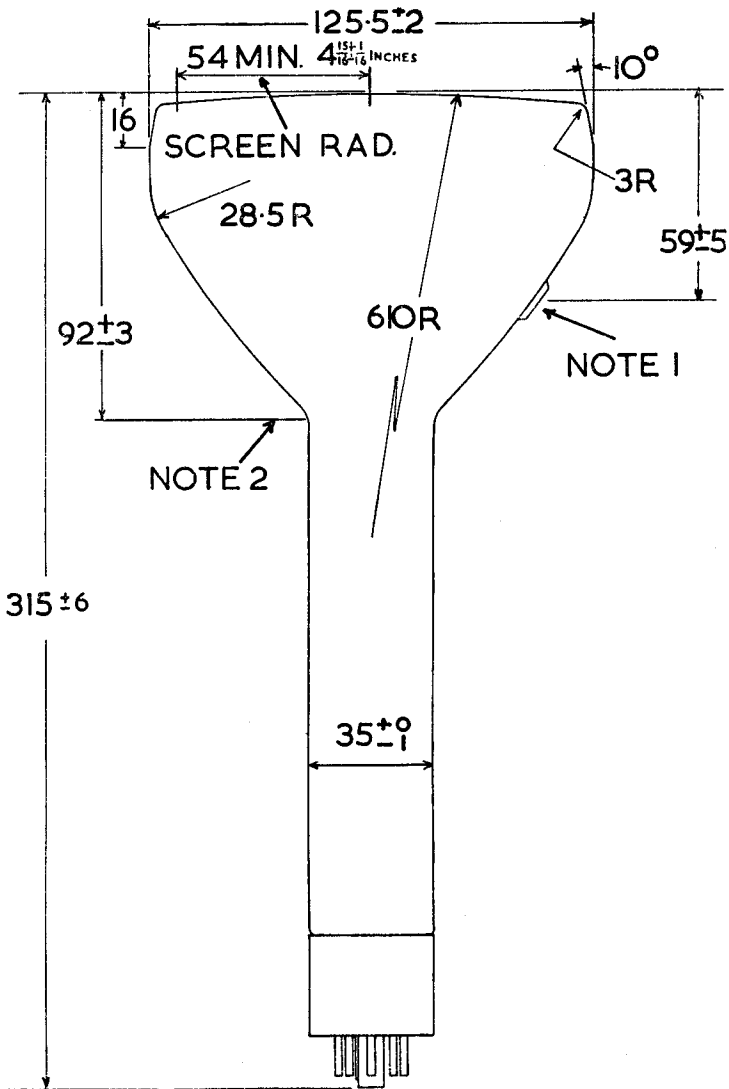
Maximum Ratings

Final Anode Voltage	. . . . .	. . . . . 9000 volts.
Anode 1 Voltage—See Note 3	. . . . .	. . . . . 1450 volts.
Modulator Voltage :		
Negative bias value	. . . . .	. . . . . 100 volts.
Positive bias value	. . . . .	. . . . . 0 volts.
Peak Heater-Cathode Voltage :		
Heater negative with respect to cathode	. . . . .	. . . . . 125 volts.
Heater positive with respect to cathode	. . . . .	. . . . . 125 volts.

Typical Operation

Final Anode Voltage	. . . . .	. . . . . 7000 volts.
Anode 2 Voltage	. . . . .	. . . . . 1000 volts \pm 100 volts.
Anode 1 Voltage	. . . . .	. . . . . 1250 volts.
Modulator Voltage for cut-off	. . . . .	. . . . . -45 to -80 volts.
Spot Position—See Note 4		

- Note 3. Anode 1 must always be at least 50v positive to Anode 2.
- Note 4. The centre of the undeflected focused spot will fall within a circle having 9 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 terminal by an angular tolerance (measured about the tube axis) of 10° . Anode terminal is on the same side of 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.