

DIAMETER 5" NOMINAL

5TD3

Radar Tube

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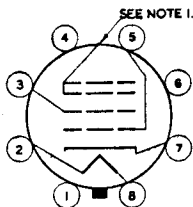
MAGNETIC FOCUS. MAGNETIC DEFLECTION

DATA

GENERAL :

Heater : Voltage	6.3	a.c. or d.c. volts
Current	0.6	amp.
Direct Inter-electrode Capacitances (Approx.)		
Modulator to All Other Electrodes		10.5 $\mu\mu\text{f.}$
Anode 1 to All Other Electrodes		6 $\mu\mu\text{f.}$
Cathode to All Other Electrodes		9 $\mu\mu\text{f.}$
Screen :		
Fluorescence		Blue.
Afterglow		Yellow.
Persistence of Afterglow		Long.
Focusing Method		Magnetic.
Deflection Method		Magnetic.
Deflection Angle (Approx.)		53°
Overall Length		280 \pm 6 mm.
Greatest Diameter of Bulb		125.5 \pm 2 mm.
Minimum Useful Screen Diameter		108 mm.
Mounting Position		Any.
Anode Cap		Recessed Small Ball.
Base		International Octal.

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



- Pin 5—Modulator.
- Pin 6—No connection.
- Pin 7—Cathode.
- Pin 8—Heater.
- Cap—Final Anode.

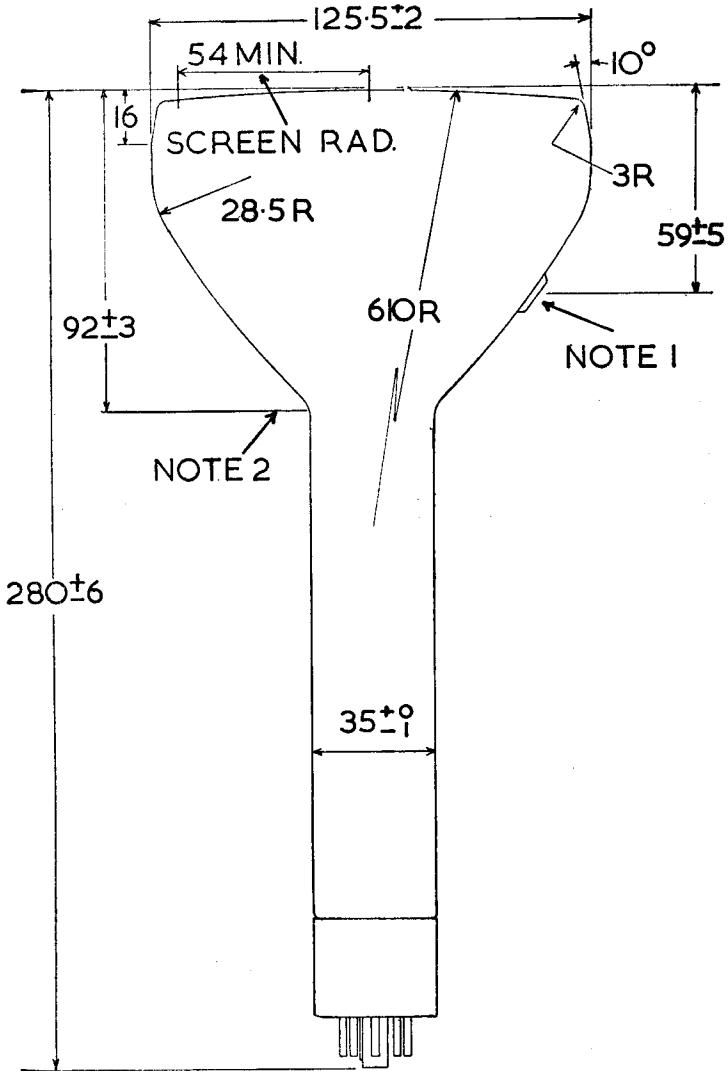
Maximum Ratings :

Final Anode Voltage		800 max. volts.
Anode 1 Voltage		70 max. volts.
Modulator Voltage :		
Negative bias value		125 max. volts.
Positive bias value		0 max. volts.
Peak Heater-Cathode Voltage :		
Heater negative with respect to cathode		125 max. volts.
Heater positive with respect to cathode		125 max. volts.

Typical Operation :

Anode Voltage	4000	7000 volts.
Anode 1 Voltage	250	250 volts.
Modulator Voltage for cut-off	-25 to -70	-25 to -70 volts.
Focusing-Coil current—See Note 3	420	520 A.T.
Spot Position	See Note 4	

- Note 3.** Focusing Coil, positioned with centre line of air gap approximately 70 mm. from reference line (see Outline Drawing).
- Note 4.** The centre of the undeflected unfocused 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 Pin No. 5 may vary from the plane through the tube axis and anode terminal by an angular tolerance (measured about the tube axis) of 10° . Anode terminal is on the same side of tube as Pin No. 5.

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