

DIAMETER 7" NOMINAL

7T03A

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Radar Tube

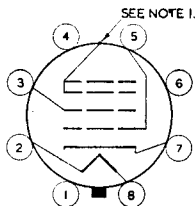
MAGNETIC FOCUS. MAGNETIC DEFLECTION

GENERAL :

DATA

Heater: Voltage	6.3	a.c. or d.c. volts.
Current	0.6	amp.
Direct Inter-electrode Capacitances.		
Modulator to all other electrodes		9.0 μ f.
Anode 1 to all other electrodes		6.0 μ f.
Cathode to all other electrodes		8.0 μ f.
Screen :		Aluminium Backed.
Fluorescence		Orange.
Afterglow		Orange.
Persistence of Afterglow		Long.
Focusing Method		Magnetic.
Deflecting Method		Magnetic.
Overall Length		337 \pm 10 mm.
Greatest Diameter of Bulb		181 mm.
Minimum Useful Screen Diameter		155 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.



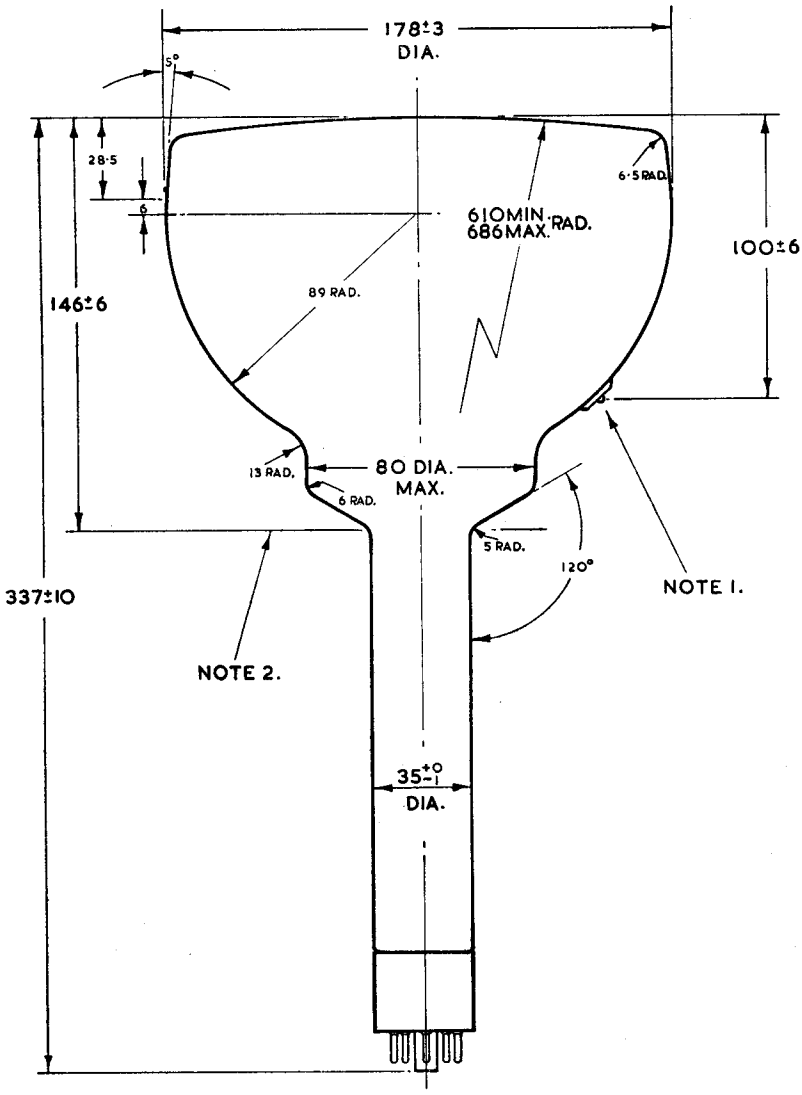
- Pin 5—Modulator.
- Pin 6—No connection.
- Pin 7—Cathode.
- Pin 8—Heater.
- Cap—Final Anode.

Maximum Ratings :

Final Anode Voltage	8000 volts.
Anode 1 Voltage	700 volts.
Modulator Voltage :	
Negative bias value	195 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 Operating Conditions :

Final Anode Voltage	4000 volts.	7000 volts.
Anode 1 Voltage	250 volts.	250 volts.
Modulator Voltage for cut-off -25 to -70 volts.		-25 to -70 volts.
Focusing-Coil Current—See Note 3	500 A.T.	625 A.T.
Spot Position	See Note 4	



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 the bulb cone.
- Note 3.** Focusing Coil positioned with centre line of air gap approximately 80 mm. from reference line (see outline drawing).
- Note 4.** The centre of the undeflected unfocused spot will fall within a circle having a 10 mm. radius concentric with the centre of the tube face.