

DIAMETER 6" NOMINAL

6T03A

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# Radar Tube

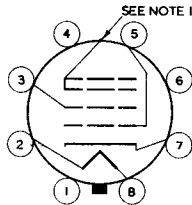
MAGNETIC FOCUS. MAGNETIC DEFLECTION

## DATA

### GENERAL :

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 $\mu$ mf.
Anode 1 to all other electrodes . . . . .			6.0 $\mu$ mf.
Cathode to all other electrodes . . . . .			8.0 $\mu$ mf.
Screen : . . . . .			Aluminium Backed.
Fluorescence . . . . .			Orange.
Afterglow . . . . .			Orange.
Persistence of Afterglow . . . . .			Long.
Focusing Method . . . . .			Magnetic.
Deflecting Method . . . . .			Magnetic.
Overall Length . . . . .			369 $\pm$ 7 mm.
Greatest Diameter of Bulb . . . . .			163 mm.
Minimum Useful Screen Diameter . . . . .			135 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.

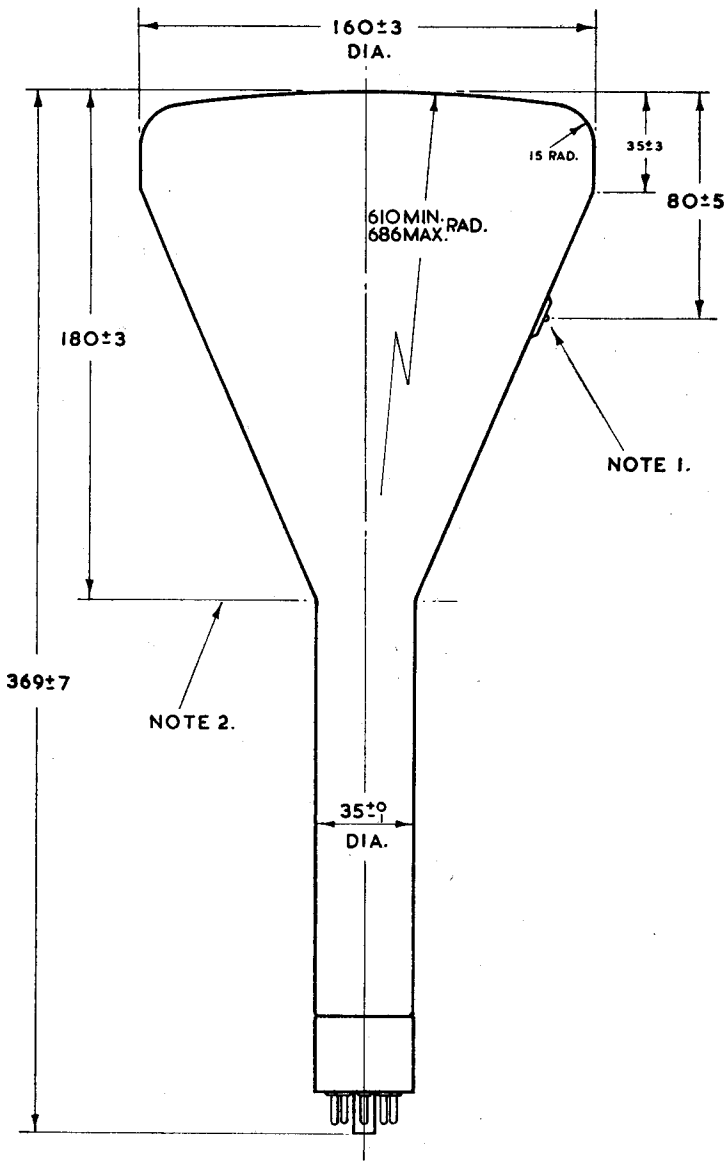
### Maximum Ratings :

Final Anode Voltage . . . . .			10000 volts.
Anode 1 Voltage . . . . .			500 volts.
Modulator Voltage :			
Negative bias value . . . . .			125 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 . . . . .			7000 volts.
Anode 1 Voltage . . . . .			450 volts.
Modulator Voltage for cut-off . . . . .			-45 to -110 volts.
Focusing-Coil Current—See Note 3 . . . . .			830 A.T.
Spot Position . . . . .		See Note 4	

**Note 4.** The centre of the undeflected unfocused 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 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  $10^\circ$ . 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).