

DIAMETER 7" NOMINAL

7TD3A

Radar Tube

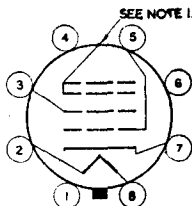
MAGNETIC FOCUS. MAGNETIC DEFLECTION

7TD3A

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 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	Blue.	
Afterglow	Yellow.	
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.



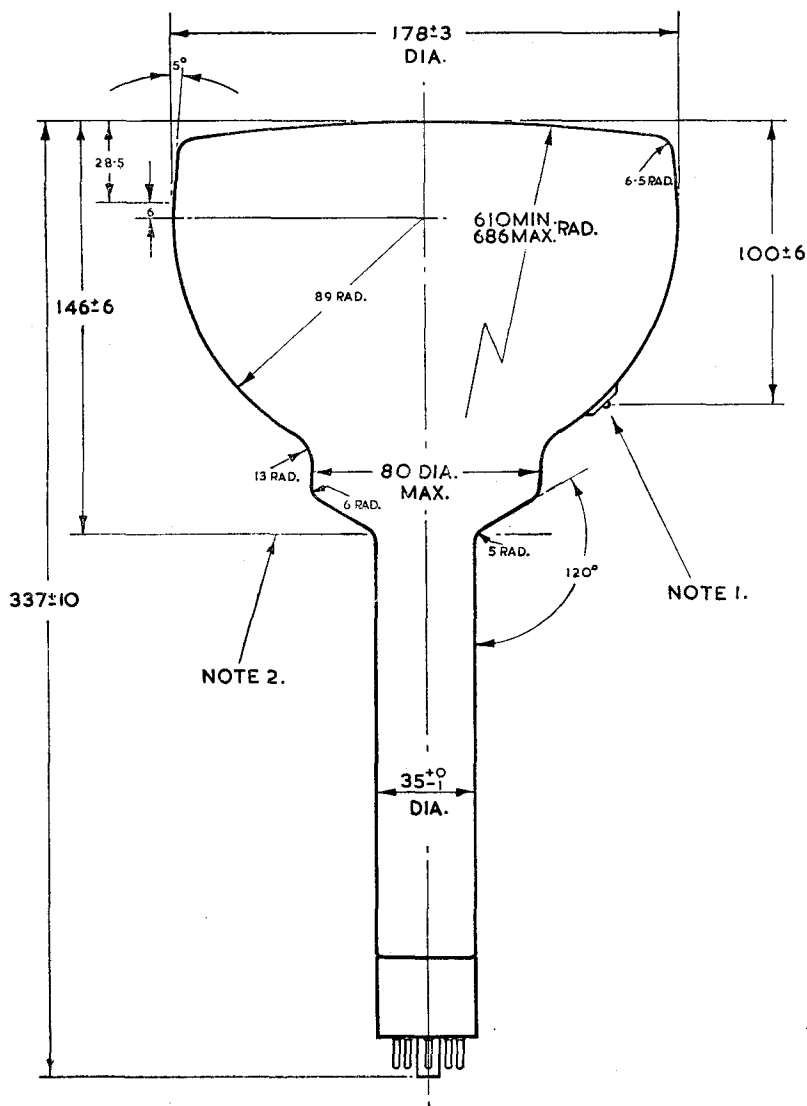
Pin 5—Modulator.
Pin 6—No connection.
Pin 7—Cathode.
Pin 8—Heater.
Cap—Final Anode.

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.