

I2T03A**Radar Tube**

MAGNETIC FOCUS. MAGNETIC DEFLECTION

I2T03A**DATA****GENERAL :**

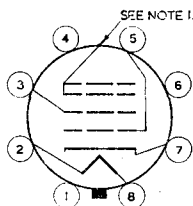
Heater: Voltage	6.3	a.c. or d.c. volts.
Current	0.6	amp.
Direct Inter-electrode Capacitances.		
Modulator to all other electrodes	9.0 μ f.	
Anode 1 to all other electrodes	6.0 μ f.	
Cathode to all other electrodes	8.0 μ f.	
Screen :	Aluminium Backed.	
Fluorescence	Orange.	
Afterglow	Orange.	
Persistence of Afterglow	Long.	
Focusing Method	Magnetic.	
Deflecting Method	Magnetic.	
Overall Length	488 $\pm$ 7 mm.	
Greatest Diameter of Bulb	306.5 mm.	
Minimum Useful Screen Diameter	265 mm.	
Mounting Position	Any.	
Anode Cap	Cavity Cap BSS448/CT8.	
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.

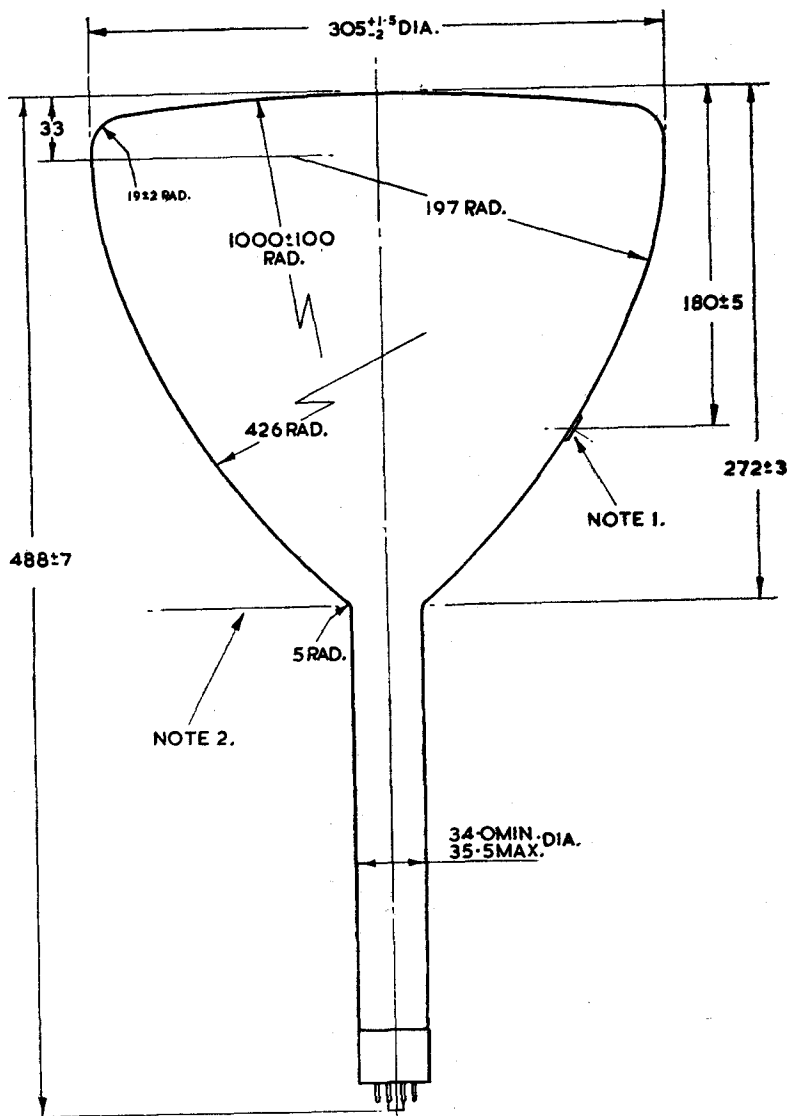
Cap—Final Anode.

Maximum Ratings :

Final Anode Voltage	15000 volts.
Anode 1 Voltage	850 volts.
Modulator Voltage :	
Negative bias value	140 volts.
Positive bias value	0 volts.
Peak Heater-Cathode Voltages :	
Heater negative with respect to cathode	150 volts.
Heater positive with respect to cathode	150 volts.

Typical Operating Conditions :

Final Anode Voltage	10000 volts.
Anode 1 Voltage	700 volts.
Modulator Voltage for cut-off	-50 to -115 volts.
Focusing-Coil Current—See Note 3	700 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 the 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 100 mm. from the reference line (see outline drawing).
- Note 4.** The centre of the undeflected focused spot will fall within a circle having 12 mm. radius concentric with the centre of the tube face.