

12L03A Radar Tube

ELECTROSTATIC FOCUS. MAGNETIC DEFLECTION

DATA

GENERAL:

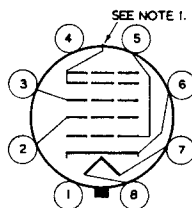
Heater: Voltage	4.0	a.c. or d.c. volts.
Current	1.0	amp.
Direct Inter-electrode Capacitances.		
Modulator to all other electrodes	15 μ f.	
Anode 1 to all other electrodes	15 μ f.	
Cathode to all other electrodes	12 μ f.	
Screen	Aluminium Backed.	
Fluorescence	Orange.	
Afterglow	Orange.	
Persistence of Afterglow	Long.	
Focusing Method	Electrostatic.	
Deflecting Method	Magnetic.	
Overall Length	535 $\pm$ 10 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—Anode 1.

Pin 3—Anode 2.

Pin 4—No connection.



Pin 5—Modulator.

Pin 6—Cathode.

Pin 7—Heater.

Pin 8—Heater.

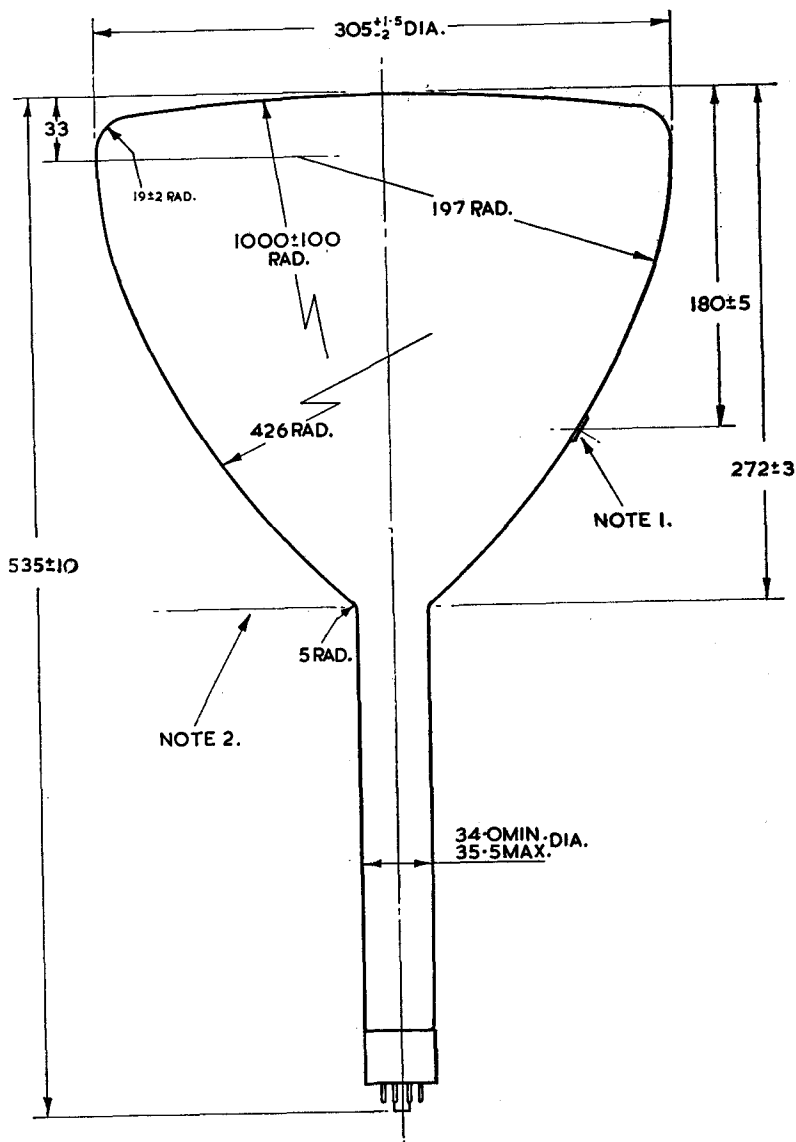
Cap—Final Anode.

Maximum Ratings:

Final Anode Voltage	13000 volts.
Anode 1 Voltage	2200 volts.
Modulator Voltage:	
Negative bias value	130 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	12000 volts.
Anode 2 Voltage	1900 volts. $\pm$ 100 volts.
Anode 1 Voltage—See Note 3	2000 volts.
Modulator Voltage for cut-off	-70 to -120 volts.
Spot Position	See Note 4



ALL SIZES IN MILLIMETRES.

- Note 1.** The plane through the tube axis and the spigot key may vary from the plane through the tube axis and the anode cap by an angular tolerance (measured about the tube axis) of 10° . The anode cap is on the same side of the tube as the spigot key.
- Note 2.** Reference line is determined by position where a gauge 36 mm. I.D. and 50 mm. long will rest on the bulb cone.
- Note 3.** Anode 1 must always be at least 50 volts positive to Anode 2.
- Note 4.** The centre of the undeflected focused spot will fall within a circle having a 10 mm. radius concentric with the centre of the tube face.