

DIAMETER 12" NOMINAL

12T03A

12T03A

Radar Tube

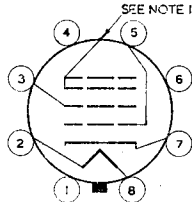
MAGNETIC FOCUS. MAGNETIC DEFLECTION

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 μ mf.
Anode 1 to all other electrodes			6.0 μ mf.
Cathode to all other electrodes			8.0 μ mf.
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.



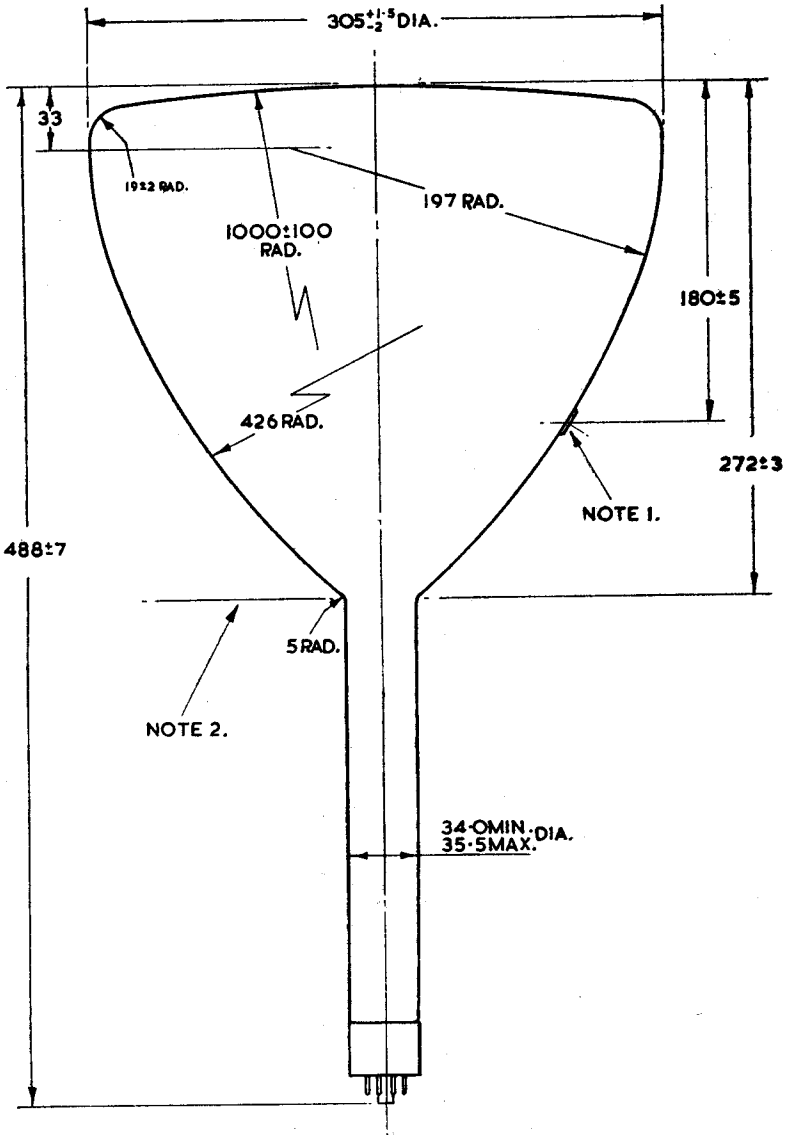
- Pin 5—Modulator.
- Pin 6—No connection.
- Pin 7—Cathode.
- Pin 8—Heater.
- Cap—Final Anode.

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.