DIAMETER 6″ NOMINAL

6T03A

6T03A

Radar Tube

MAGNETIC FOCUS. MAGNETIC DEFLECTION

DATA

GENERAL:

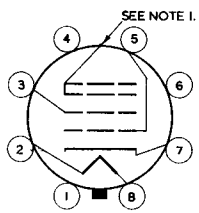
Heater: Voltage	6.3	a.c. or d.c. volts.
Current	0.6	amp.
Direct Inter-electrode Capacitances.		
Modulator to all other electrodes		9.0μμf.
Anode 1 to all other electrodes		6.0μμf.
Cathode to all other electrodes		8.0μμf.
Screen :		Aluminium Backed.
Fluorescence		Orange.
Afterglow		Orange.
Persistence of Afterglow		Long.
Focusing Method		Magnetic.
Deflecting Method		Magnetic.
Overall Length		369 ± 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.

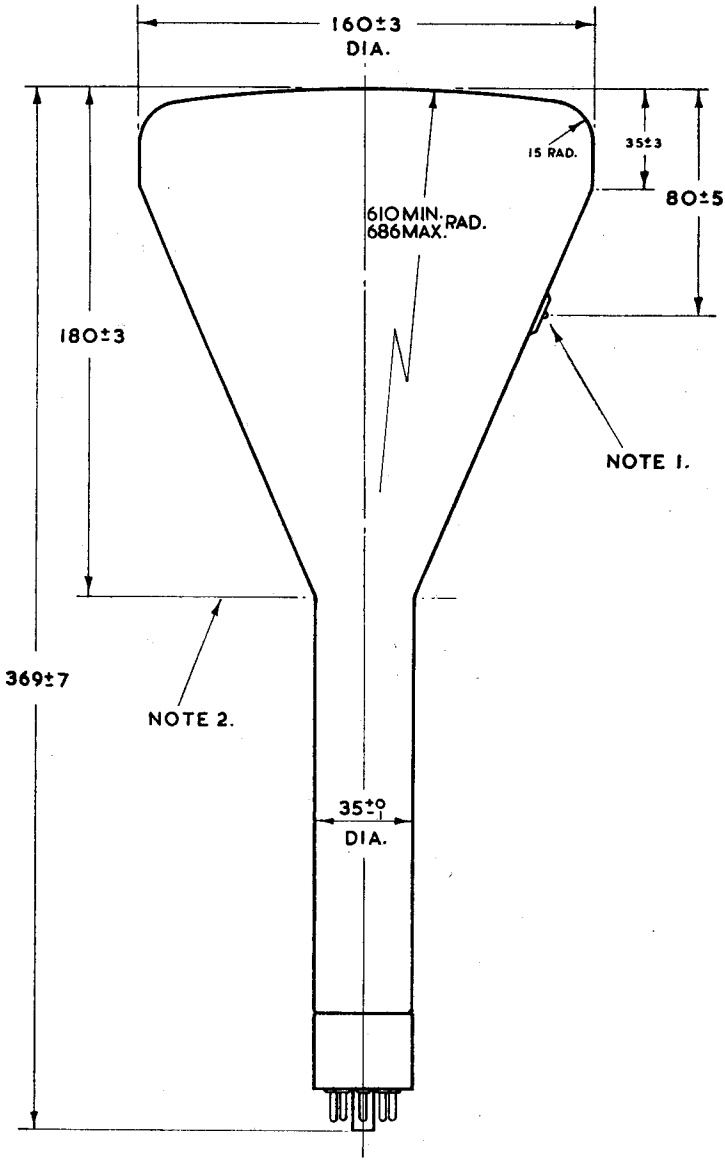
Maximum Ratings:

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°. 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).