

DIAMETER 7" NOMINAL

**7T03A****Radar Tube**

MAGNETIC FOCUS.    MAGNETIC DEFLECTION

**DATA****GENERAL :**

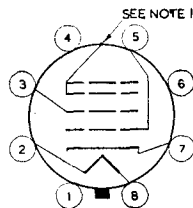
|                                             |     |           |                      |
|---------------------------------------------|-----|-----------|----------------------|
| Heater: Voltage . . . . .                   | 6.3 | . . . . . | a.c. or d.c. volts.  |
| Current . . . . .                           | 0.6 | . . . . . | amp.                 |
| Direct Inter-electrode Capacitances.        |     |           |                      |
| Modulator to all other electrodes . . . . . |     |           | 9.0 $\mu$ mf.        |
| Anode 1 to all other electrodes . . . . .   |     |           | 6.0 $\mu$ mf.        |
| Cathode to all other electrodes . . . . .   |     |           | 8.0 $\mu$ mf.        |
| Screen : . . . . .                          |     |           | Aluminium Backed.    |
| Fluorescence . . . . .                      |     |           | Orange.              |
| Afterglow . . . . .                         |     |           | Orange.              |
| 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  |                   |

**7T03A**

