Diameter 16" Nominal

16TO4A

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 pf.
Anode 1 to all other electrodes: 6.0 pf.
Cathode to all other electrodes: 8.0 pf.
Screen: Aluminium Backed.
Fluorescence: Orange.
Afterglow: Orange.
Persistence of Afterglow: Long.
Focusing Method: Magnetic.
Deflecting Method: Magnetic.
Overall Length: 512 ± 5 mm.
Greatest Diameter of Bulb: 409 mm.
Minimum Useful Screen Diameter: 370 mm.
Mounting Position: Any.
Base: B12A.

Pin 1—Heater
Pin 2—Grid
Pin 6—No connection
Pin 10—Anode 1
Pin 11—Cathode
Pin 12—Heater

Maximum Ratings:
Final Anode Voltage: 16.0 kV.
Anode 1 Voltage: 600 volts.
Modulator Voltage:
Negative bias value: -180 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: 15.0 kV.
Anode 1 Voltage: 300 volts.
Modulator Voltage for cut-off: -30 to -90 volts.
Spot position: See Note 4.
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 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 118 mm. from the reference line (see outline drawing).

Note 4. The centre of the undeflected focused spot will fall within a circle having 15 mm. radius concentric with the centre of the tube face.