FERRANTI FLYING SPOT SCANNER TUBE

An indirectly heated Triode Tube with a 6in. diameter metal backed screen and electrostatic deflection. This tube is This tube is suitable as a replacement for earlier types S6/30A or 6/3A.

FOCUS Magnetic. ... **DEFLECTION ...** Electrostatic. SCREEN Phosphor Metal Backed. Type 'A'. Fluorescence Green. Persistence Ultra-short. For further details, refer to the relevant phosphor characteristics at the front of this section of the handbook. PHYSICAL DETAILS. B12A (Duodecal). CT8 Cavity Type.* Type CT2 Base Anode Cap Deflector Plate Caps ... (9.7 mm. dia.). 495 mm. Max. Overall Length ... Useful Screen Area 127 mm, dia. (flat face). ... 37±1 mm. Neck Diameter ... Mounting Position Any. For other dimensions see drawing. BASE CONNECTIONS. Pin 7—No Connection. Pin 8—No Pin. Pin 9—No Pin. Pin 1—Heater. Pin 2—Grid. Pin 3—No Pin. Pin 4—No Pin.
Pin 5—No Pin.
Pin 6—No Connection.
Pin 6—No Connection.
Pin 12—Heater. Side Contact-Anode. HEATER. Heater Voltage ... 6.3 volts. Heater Current ... 0.3 amp. RATINGS. Max. Anode Voltage 25 kV. Max. V_{h-k} 100 volts. ... Max. Beam Current 200 μΑ. ... CHARACTERISTICS. †Nom. Vg for visual cut off $V_a/120$ Av. Mod. Drive for 50 µA Beam Current 33 volts. Deflection Sensitivity :---'X' plates 'Y' plates 500/V_a mm./V. 450/V_a mm./V. TYPICAL OPERATION. Heater Voltage ... Anode Voltage ... 6.3 volts. 20 kV. ... Vg for visual cut off -170 volts. 900 ampere turns ‡Focus Coil (approx.). ... > 100 lines per cm. Screen Resolution Normal Peak Beam Current ... 150 μA. When operated at high anode voltage shielding may be required to protect against harmful X-Ray radiation, which could cause possible injury from prolonged exposure. CAPACITANCES. 1.0 bF. Cx x2-y y2

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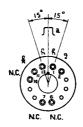
Cg-all '

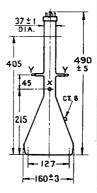
Cy1-y2

 $C_{y_1-y_2} \dots \dots$ $C_{x_1-all} = C_{x_2-all} \dots$

 $C_{y_1-all} = C_{y_2-all}$

6/33AM







Dimensions shown are in millimetres.



5 .8 pF.

1.0 pF.

0.9 pF.

4.8 pF.

4.3 pF.

^{*}A suitable adaptor to CT2 can be supplied where the tube is required to replace an earlier type.

The grid should never be positive with respect to the cathode. Positioned so that the gap is 100 mm. in front of the modulator.