Cathode Ray Tube for Television Reception.

12-INCH SCREEN

HEATER CHARACTERISTICS

Heater Voltage ... ... ... ... \( V_f \) = 4.0 volts
Heater Current ... ... ... \( I_f \) = 1.0 amp

OPERATING CHARACTERISTICS

Third Anode Voltage ... ... ... ... \( V_{a3} \) = 5,000 volts
Second Anode Voltage ... ... ... \( V_{a2} \) = 1,400 volts
First Anode Voltage ... ... ... \( V_{a1} \) = 250 volts
*Grid Voltage ... ... ... \(-V_{g}\) = 0-60 volts
Cathode internally connected to Heater—
Deflection Sensitivity of Plates nearest Cathode \( N_1 \) = 0.17 mm/V
Deflection Sensitivity of Plates nearest Screen... \( N_2 \) = 0.13 mm/V

CAPACITIES

Grid to all other Electrodes ... ... ... \( C_g \) = 15 \( \mu \)F
Between Deflection Plates nearest Cathode \( C_{D1D1}' \) = 5.5 \( \mu \)F
Between Deflection Plates nearest Screen ... \( C_{D2D2}' \) = 6.5 \( \mu \)F

FLUORESCENT COLOUR

White.

DEFLECTION

Double Electrostatic.

LIMITS

Maximum Third Anode Voltage ... ... \( V_{a3,\text{max}} \) = 5,000 volts
Maximum Second Anode Voltage ... \( V_{a2,\text{max}} \) = 1,700 volts
Maximum First Anode Voltage ... \( V_{a1,\text{max}} \) = 250 volts
Maximum Grid Voltage ... ... \(-V_{g,\text{max}}\) = 200 volts

* The grid voltage should be adjusted to give the required light intensity and definition. The voltage should never become positive or damage to the tube will result.