Electrostatic
Electrostatic
Pl
23⅝" ± 3/8
12" ± 1/4
J 96 C 1
11 Pin Magnal
11J

D₁ - D₂ trace aligns with pin #8 and axis ± 10°
Angle between traces, 90° ± 4°
Positive voltage on D₂ deflects beam toward pin #8
Positive voltage on D₃ deflects beam toward pin #11

Spot centering¹. within 45 m.m. square.

Direct Interelectrode Capacitances (Maximum)

Control grid to all other electrodes 12 mmf.
Deflecting Plate D₁ to Deflecting Plate D₂ 3 mmf.
Deflecting Plate D₃ to Deflecting Plate D₄ 3 mmf.
D₁ to all other electrodes 11 mmf.
D₃ to all other electrodes 11 mmf.
D₁ to all other electrodes except D₂ 9 mmf.
D₂ to all other electrodes except D₁ 9 mmf.
D₃ to all other electrodes except D₄ 9 mmf.
D₄ to all other electrodes except D₃ 9 mmf.

Electrical Characteristics

Ratings

Heater Voltage 6.3 volts
Heater Current .6 ± 10% amps.
Anode #2 (High Voltage Electrode) 5500 volts max.
Anode #1 (Focusing Electrode) 1500 volts max.
Grid Voltage (Control Electrode) Never positive
Peak Voltage between Anode #2 and any deflection plate 1000 volts max.
Resistance of circuit to grid 1.5 megohms max.
Impedance of any deflecting electrode circuit at heater supply frequency 1.0 megohms max.
Typical Operation

Heater Voltage 6.3 volts
Anode #2 Voltage 5000 volts
Anode #1 Voltage for focus 1150 + 25% - 30% volts *
Anode #1 current at $E_{c1} = 0$ and $E_{b1}$ adjusted for focus 3000 ma. max.
Grid Voltage for cut-off$^2$. - 90 ± 50 volts

* Required for focus when $E_{c1}$, is 75% of cut-off value.

Deflection Factor

Electrodes $D_1$ and $D_2$ 19 volts / (inch KV) ± 20%
Electrodes $D_3$ and $D_4$ 25 volts / (inch KV) ± 20%

Notes

1. When the tube is operated under typical conditions, and $E_{c1}$ set to avoid damage to the screen, the focused undeflected spot will fall within a square of the given size centered at the geometric centre of the tube face and having one side parallel to the trace produced by $D_1$, $D_2$.

2. Cut-off voltage is voltage necessary for visual extinction of stationary focused spot.