KINESCOPE

Heater Coated Unipotential Cathode
Voltage 2.5 a-c or d-c volts
Current 2.1 amp.
Focus Electrostatic
Deflection Magnetic
Phosphor No.4
Fluorescence White
Persistence Medium
Direct Interelectrode Capacitance:
Grid No.1 to All Other Electrodes 9 μf
Overall Length Refer to drawings of tube and sleeve
Maximum Diameter Max
Bulb J-96
Cap Medium Metal
Base Medium 6-Pin

MAXIMUM RATINGS and TYPICAL OPERATING CONDITIONS

Maximum Ratings Are Based on a Line-Voltage Design Center of 117 Volts

High-Voltage Electrode (Anode No.2) Volt. 7000 max. volts
Focusing Electrode (Anode No.1) Volt. 2000 max. volts
Accelerating Electrode (Grid No.2) Volt. 250 max. volts
Control Electrode (Grid No.1) Volt. Never positive
Fluorescent-Screen Input Power/sq cm:
Fixed Pattern 2.5 max. mw
Moving Pattern 5.0 max. mw
Grid Circuit Resistance 1.5 max. megohms
Typical Operation:
Cathode Should be connected to one side
or to mid-tap of heater winding
Anode No.2 Voltage 6000 7000 volts
Anode No.1 Voltage o 1240 1460 approx. volts
Grid No.2 Voltage 250 250 volts
Grid No.1 Voltage o Adjusted to give suitable luminous spot
Grid No.1 Signal—Swing Volt. A 25 25 approx. volts

NOTE: Brilliance and definition decrease with decreasing
anode voltages. In general the anode No.2 voltage should
not be less than 6000 volts.

Supply should be adjustable to ± 20% of the value shown.
Approximately 35% of Grid No.2 voltage is required for current cut-off when, in some applications, it is necessary to use the maximum permissible grid-circuit resistance.
Peak-to-peak value for good brilliance with good resolution. For greater brilliance, up to twice this value should be available.

Characteristic Curves of phosphor No.4 are shown at the beginning of this section.

Jan. 30, 1942

Indicates a change.
PROTECTIVE SLEEVE

DO NOT REMOVE SLEEVE FROM KINESCOPE

12 3/4" MAX.

5 1/8" MAX.

16 3/8" MAX.

11 3/8" MAX.

4 1/2" MAX.
### AVERAGE CHARACTERISTICS

**E_f = 2.5 VOLTS**

FOCUSBNG ELECTRODE (ANODE No.1) VOLTS
ADJUSTED TO GIVE FOCUS

<table>
<thead>
<tr>
<th>CURVE</th>
<th>HIGH-VOLTAGE ELECTRODE (ANODE No.2) VOLTS</th>
<th>ACCELERATING ELECTRODE (GRID No.2) VOLTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>7000</td>
<td>250</td>
</tr>
<tr>
<td>B</td>
<td>6000</td>
<td>250</td>
</tr>
</tbody>
</table>

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**CONTROL ELECTRODE (GRID No.1) VOLTS**

-40 -30 -20 -10 0

**HIGH-VOLTAGE ELECTRODE (ANODE No.2) MICROAMPERES**

700 600 500 400 300 200 100

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RCA radioatron DIVISION
RCA MANUFACTURING COMPANY, INC.

DEC. 19, 1938

92C-6017

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12AP4/1803-P4