



9AP4

9AP4/1804-P4

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 μ f ←
Overall Length		21" $\pm$ 3/8" ←
Diameter		9" $\pm$ 1/8" ←
Bulb		J-72
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 $\square$	1225	1425	<u>approx. volts</u>
Grid No.2 Voltage	250	250	volts
Grid No.1 Voltage $\square$	Adjusted to give suitable luminous spot		
Grid No.1 Signal-Swing Volt. $\blacktriangle$	25	25	<u>approx. volts</u> ←

NOTE: Brilliance and definition decrease with decreasing anode voltages. In general the anode No.2 voltage should not be less than 5000 volts. ←

- $\square$ Supply should be adjustable to $\pm 20\%$ of the value shown. ←
 $\square$ 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. ←
 $\blacktriangle$ Peak-to-peak value for good brilliance with good resolution. For greater brilliance, up to twice this value should be available. ←

The Characteristic Curves for the 9AP4 are the same as those for the 12AP4.

← Indicates a change.

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RCA RADOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

DATA



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