HIGH-VACUUM CATHODE-RAY TUBE

Heater Coated Unipotential Cathode

Voltage 6.3 a-c or d-c volts
Current 0.6 amp.

Focusing Method Magnetic
Deflection Method Magnetic
Maximum Solid Deflection Angle 55 Degrees
Phosphor No. 7

Direct Interelectrode Capacitances (Approx.):
- Grid No. 1 to All Other Electrodes 8.0 µf
- Cathode to All Other Electrodes 6.5 µf

Overall Length 9-13/16" ± 1/16"
Bulb Diameter at Screen End 3" ± 1/16"
Minimum Useful Screen Diameter 2-1/2"
Bulb Side Terminal Snap Terminal
Base Long Medium-Shell Octal 8-Pin

Deflection Yoke:
Position Flush with Bulb-Neck Reference Line (See OUTLINE DRAWING)

Working Length for 55° Angle Deflection 2 max. inches

MAXIMUM RATINGS and TYPICAL OPERATING CONDITIONS

Anode (High-Voltage Electrode) Voltage 5500 max. volts
Grid No. 2 (Accelerating Electrode)
Voltage 220 max. volts

Grid No. 1 (Control Electrode) Voltage Never positive
D-C Heater-Cathode Potential* 125 max. volts
Grid No. 1 Circuit Resistance 1.5 max. megohms

Typical Operation:
- Anode Voltage 4000 5000 volts
- Grid No. 2 Voltage 150 150 volts
- Grid No. 1 Voltage for Visual Cut-Off ## -30 -30 volts
- Values subject to variation of ±50 ±50 percent

* With heater negative. If the cathode is not directly connected to the heater, the heater-cathode potential should be kept as low as possible.
## Brilliance and definition decrease with decreasing anode voltage. In general, anode voltage should not be less than 4000 volts.
### Visual extinction of stationary focused spot.

SPOT POSITION

The undeflected focused spot will fall within a circle of 12-mm radius concentric with the tube face.

Suitable test conditions are: anode voltage, 4000 volts; spot unfocused; the tube shielded from all extraneous fields. To avoid damage to the tube, make the test with grid No. 1 voltage near cut-off.

Jan. 11, 1943

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

TUBE MOUNTING POSITION: Any

BOTTOM VIEW OF SOCKET CONNECTIONS

- P = Anode
- G2 = Grid No. 2
- G1 = Grid No. 1
- H1 = Heater
- K = Cathode
- NC = No Connection

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TENTATIVE DATA
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AVERAGE CHARACTERISTIC

$E_f = 6.3 \text{ VOLTS}$
GRID NO. 2 VOLTS = 150

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