



7CP4

KINESCOPE

ELECTROSTATIC FOCUS. MAGNETIC DEFLECTION

General:

Heater, for Unipotential Cathode:

Voltage $6.3 \pm 10\%$ ac or dc volts

Current 0.6 amp

Direct Interelectrode Capacitances (Approx.):

Grid No.1 to All Other Electrodes 8.0 μf

Cathode to All Other Electrodes 6.5 μf

Phosphor No.4

Fluorescence White

Persistence Medium

Focusing Method Electrostatic

Deflection Method Magnetic

Solid Deflection Angle (Approx.) 57°

Overall Length $13-7/16" \pm 3/8"$

Greatest Diameter of Bulb $7" \pm 1/8"$

Minimum Useful Screen Diameter $6-1/2"$

Raster Size (Approx.) $4" \times 5-1/2"$

Cap. Recessed Small Ball

Mounting Position Any

Base Long Medium-Shell Octal 8-Pin

Basing Designation for BOTTOM VIEW 6AZ

Pin 1—No Connection

Pin 2—Anode No.1

Pin 3—No Connection

Pin 4—Grid No.2

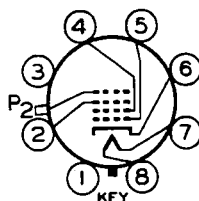
Pin 5—Grid No.1

Pin 6—Cathode

Pin 7—Heater

Pin 8—Heater

Cap—Anode No.2



Maximum Ratings, Design-Center Values:

ANODE—No.2 VOLTAGE 8000 max. volts

ANODE—No.1 VOLTAGE 2400 max. volts

GRID—No.2 VOLTAGE 300 max. volts

GRID—No.1 VOLTAGE:

Negative bias value 125 max. volts

Positive bias value 2 max. volts

PEAK HEATER—CATHODE VOLTAGE:

Heater negative with respect to cathode 125 max. volts

Heater positive with respect to cathode 125 max. volts

Typical Operation:

Anode—No.2 Voltage* 6000 volts

Anode—No.1 Voltage for Focus^o 1140 volts

Grid—No.2 Voltage 250 volts

Grid—No.1 Voltage** -45 volts

Maximum Circuit Values:

Grid—No.1—Circuit Resistance 1.5 max.megohms

* , ^o , ** , See next page.

TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

from RMA release # 507, June 25, 1946



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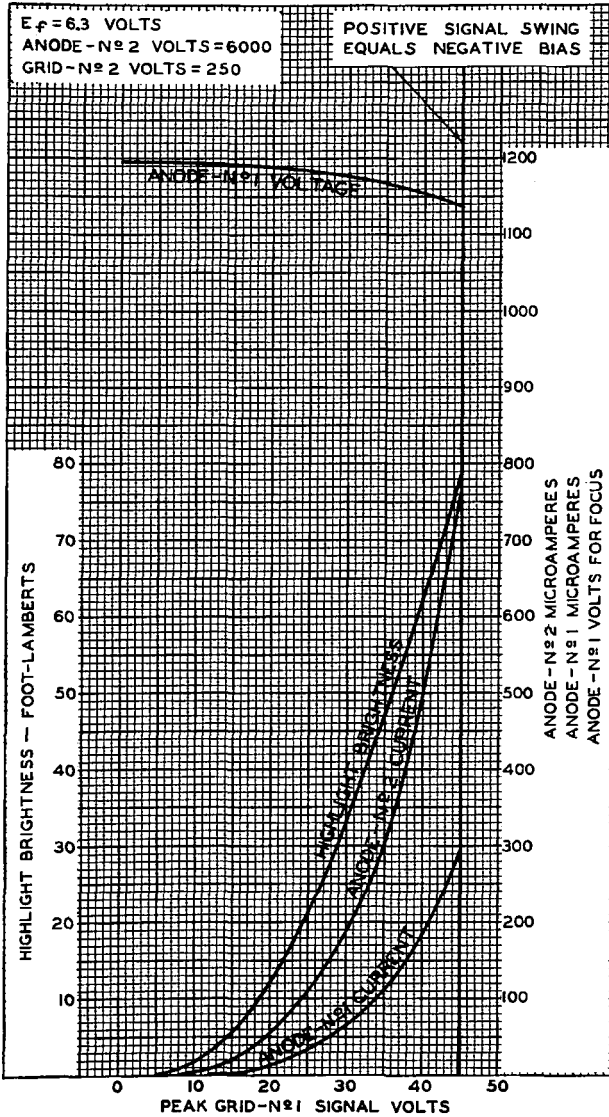
- * Brilliance and definition decrease with decreasing anode-No.2 voltage. In general, the anode No.2 voltage should not be less than 4000 volts.
- o With the combined grid-No.1-bias voltage and video-signal voltage adjusted to produce a highlight brightness of 10 foot-lamberts on a 4" x 5-1/2" picture area. The anode No.1 voltage supply should be adjustable to $\pm 20\%$ of indicated value.
- ** Visual extinction of undeflected focused spot. Supply should be adjustable to $\pm 50\%$ of indicated value.



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AVERAGE CHARACTERISTICS

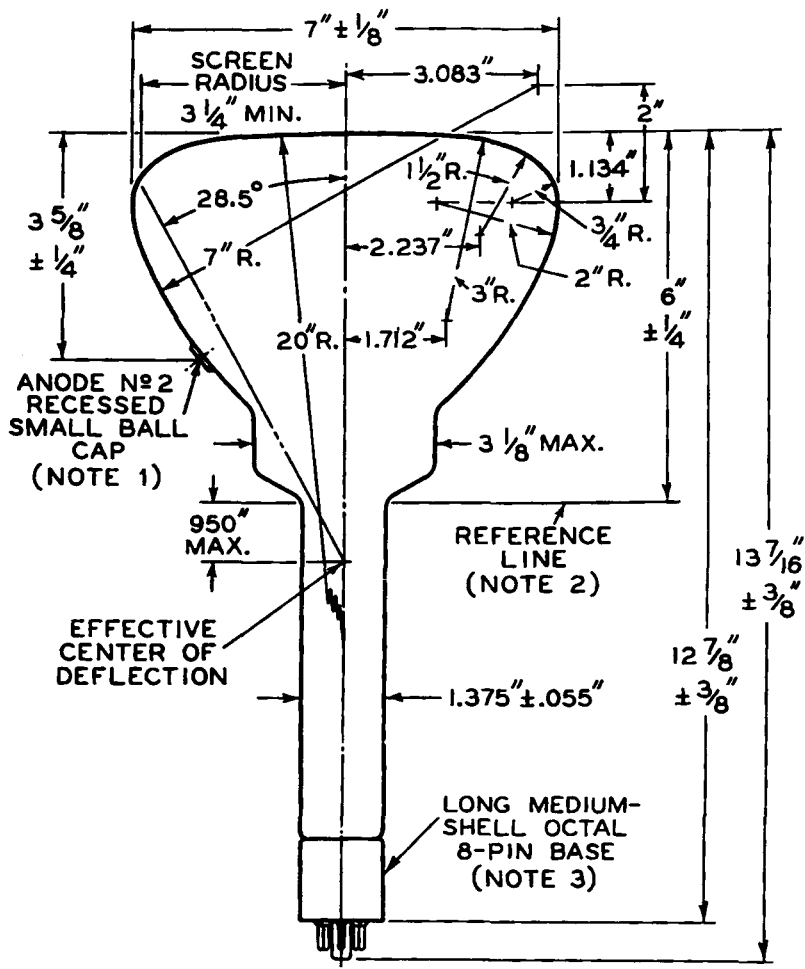


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NOTE 1: THE PLANE THROUGH THE TUBE AXIS AND PIN No. 2 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND ANODE No. 2 TERMINAL BY AN ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF 10° . ANODE No. 2 TERMINAL IS ON SAME SIDE OF TUBE AS PIN No. 2.

NOTE 2: REFERENCE LINE IS DETERMINED BY POSITION WHERE GAUGE $1.430" + .003" - .000"$ I.D. AND $2"$ LONG WILL REST ON BULB CONE.

NOTE 3: ϕ OF BULB WILL NOT DEVIATE MORE THAN 2° IN ANY DIRECTION FROM THE PERPENDICULAR ERECTED AT THE CENTER OF THE BOTTOM OF THE BASE.

92CM-6364R2