



7CP1

OSCILLOGRAPH TUBE

ELECTROSTATIC FOCUS, MAGNETIC DEFLECTION

7CP1

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 μ fCathode to All Other Electrodes. . . . 6.5 μ f

Phosphor (For Curves, see front of this Section) No.1

Fluorescence Green

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"

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

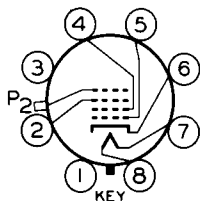
Pin 5—Grid No.1

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*. 4000 7000 . . volts

Anode—No.1 Voltage for

Focus at 75% of Grid—No.1

Voltage for Cutoff⁰ 780 1365 . . volts

Grid—No.2 Voltage. 250 250 . . volts

Grid—No.1 Voltage for

Visual Cutoff**. -45 -45 . . volts

*, ⁰, **: See next page.

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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 Individual tubes may require between -30% and +20% of the values shown with grid-No.1 voltages between zero and cutoff.
- ** Visual extinction of undeflected focused spot. Supply should be adjustable to $\pm 50\%$ of indicated value.

Maximum Circuit Values:

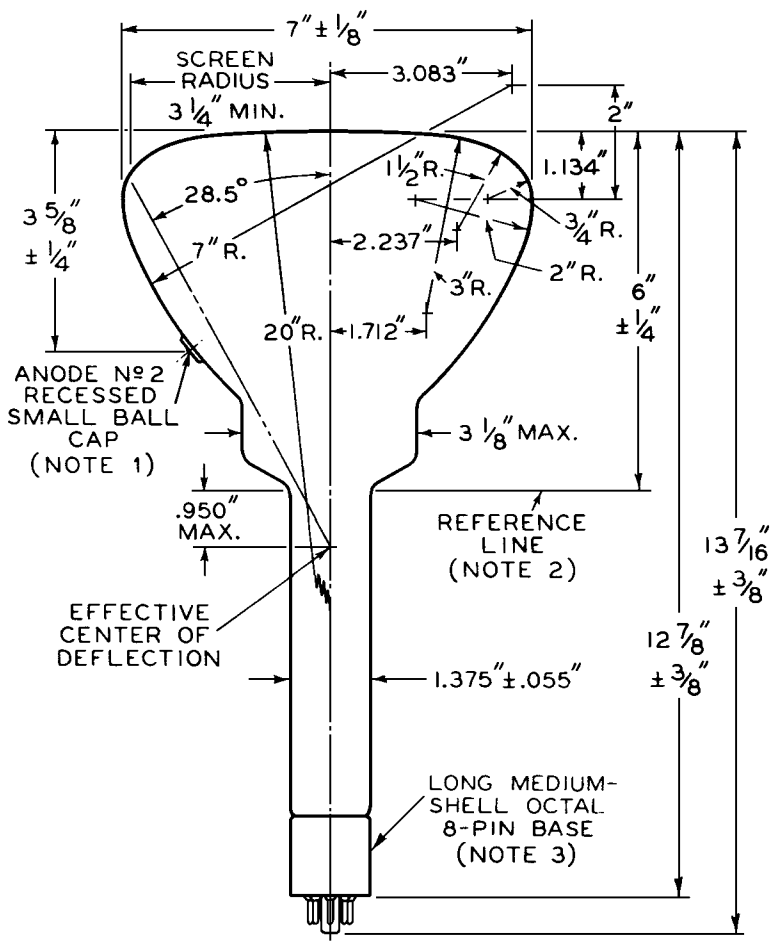
Grid-No.1-Circuit Resistance. 1.5 max. megohms



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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: $\angle$ OF BULB WILL NOT DEVIATE MORE THAN 2° IN ANY DIRECTION FROM THE PERPENDICULAR ERECTED AT THE CENTER OF THE BOTTOM OF THE BASE.

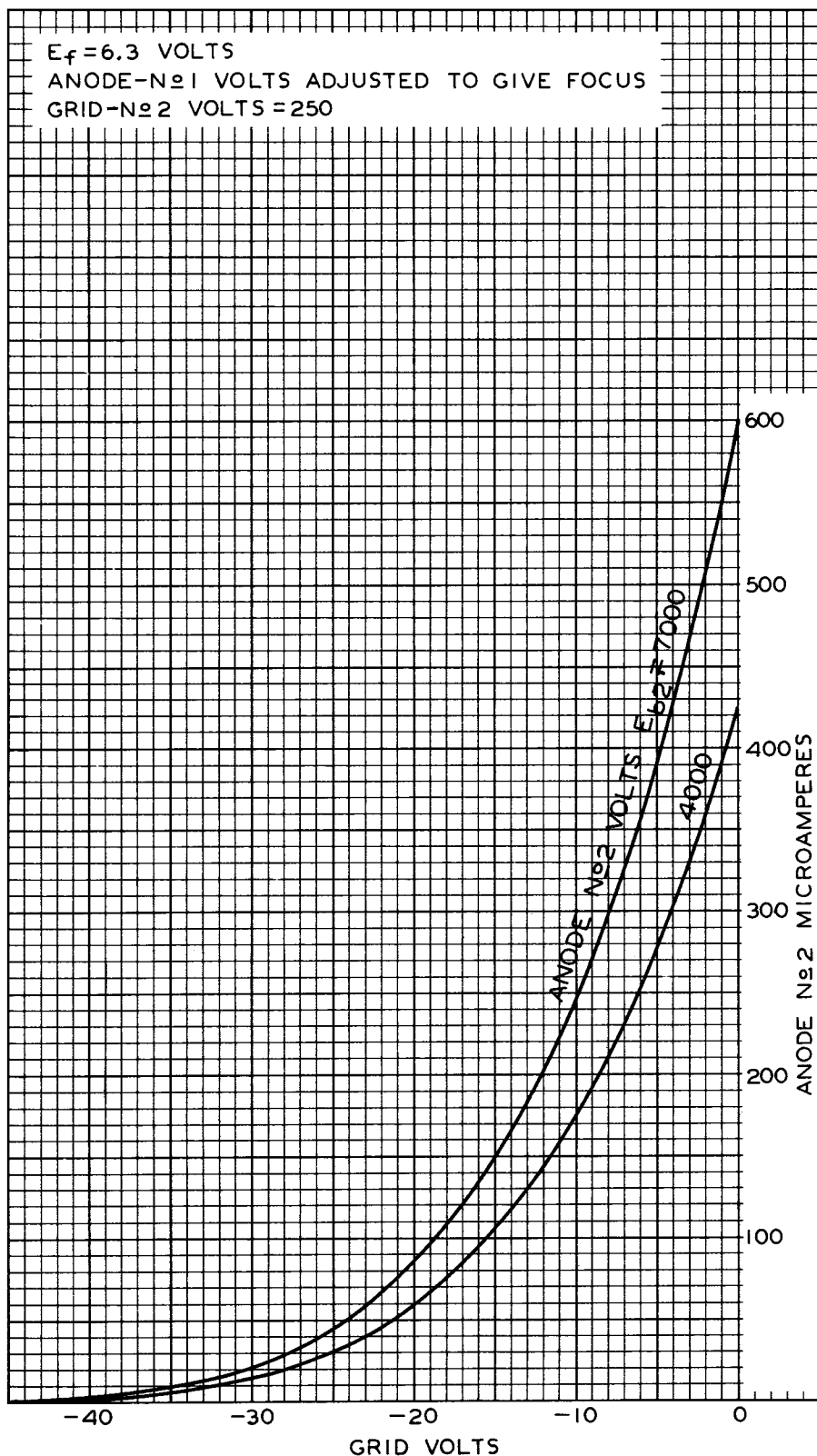
92CM-6364R2

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AVERAGE CHARACTERISTICS



AUG. 23, 1946

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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