

# 2BPI

OSCILLOGRAPH TUBE
ELECTROSTATIC FOCUS ELECTROSTATIC DEFLECTION

DATA General: Heater, for Unipotential Cathode: Voltage. . . . . . . . . . . . Current. . . 0.6 Direct Interelectrode Capacitances (Approx.): Grid No.1 to All Other Electrodes. .  $\mathbb{D}_1$  to  $\mathbb{D}_2$  . . . . . . . . .  $\mathbb{D}_3$  to  $\mathbb{D}_4$  . . . . . . . .  $\mathbb{D}_1$  to All Other Electrodes. μμf 2 11 D<sub>2</sub> to All Other Electrodes. . . D<sub>3</sub> to All Other Electrodes. . .  $\mu\mu$ 1 μμf DJ' to All Other Electrodes. . . . . щf Phosphor (For Curves, see front of this Section) . No.1 Fluorescence . . . . Persistence. . Electrostatic Focusing Method . . Deflection Method. . 7-5/8" ± 3/16" Overall Length . . . . . . . . . Greatest Diameter of Eulb. ± 1/16" Minimum Useful Screen Diameter . . . . 1-3/4" . . Small-Shell Duodecal 12-Pin Base . Basing Designation for BOTTOM VIEW . Pin 8 - Anode No. 2. Pin 1-Heater Grid No.2 Pin 2-Grid No. 1 Pin 9 - Deflecting Pin 3 - Cathode Electrode Pin 4 - Anode No. 1 N2 Pin 5 - Internal Connection-Pin 10 - Deflecting Do Not Use Electrode Pin 6 - Deflecting Electrode Pin 11 - Internal DJ2 Connection--Pin 7-Deflecting Do Not Use Electrode Pin 12 - Heater  $\Omega_{\Lambda}$ DJ, and DJ, are nearer the screen  $DJ_{Q}$  and  $DJ_{A}$  are nearer the base With DJ1 positive with respect to DJ2, the spot is deflected toward pin 4. With DJ3 positive with respect to DJ4, the spot is deflected toward pin 1. The plane through the tube axis and pin Mo.4 may vary from the trace produced by DJ1 and DJ2 by an angular tolerance (measured about the tube axis) of 100. The angle between DJ1 - DJ2 trace and DJ3 - DJ4 trace is 900 ± 30.

Indicates a change.



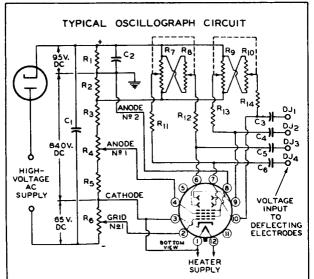


Maximum Ratings, Design-Center Values:  ANODE-No.2 VOLTAGE	AN AN GR	IODE-No.2 VOLTAGE 2500 max. v	olts.
ANODE—No.1 VOLTAGE  GRID—No.1 VOLTAGE  Negative bias value	AN GR		olts.
ANODE—No.1 VOLTAGE GRID—No.1 VOLTAGE: Negative bias value. Positive bias value. Positive bias value. Positive beak value. Positive peak value.  PEAK VOLTAGE BETWEEN ANODE No.2 AND ANY DEFLECTING ELECTRODE. PEAK HEATER—CATHODE VOLTAGE: Heater negative with respect to cathode. Heater positive with respect to cathode. Heater positive with respect to cathode. Heater positive with respect to cathode.  Equipment Design Ranges:  For any anode—No.2 voltage (Eb2) between 500° and 2500 volts Anode—No.1 Voltage for Visual Cutoff. Anode—No.1 Voltage for Visual Cutoff. Current Range. Heater positive with respect to cathode.  Deflection Factors:  DJ & DJ . DJ . DJ & DJ .	AN GR		
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Positive bias value	1		volts
Positive peak value			
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→ Indicates a change.







92CM-6777R1

C1: 0.2 µf C1: 1.0 µf C2: 1.0 µf C3 C4 C5 C6: 0.05-µf Blocking Capacitors\* R1 R2: 2.5 Megohms, 0.5 Watt R3: 2.5 Megohms, 1 Watt R4: 1.0-Megohm Potentiometer R5: 0.5 Megohm, 0.5 Watt R6: 0.35 Megohm, 0.5 Watt R7 R8: Dual 5-Megohm Potentiometer R9 R10: Dual 5-Megohm Potentiomete

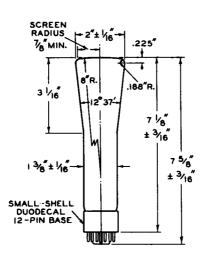
R9 R10: Cual 5-Megohm Potentiometer R11 R12 R13 R14: 2 Megohms, 0.5 Watt

When cathode is grounded, capacitors should have high voltage rating; when anode No.2 is grounded, they may have low voltage rating. For dc amplifier service, deflecting electrodes should be connected direct to amplifier output. In this service, it is preferable usually to remove deflecting-electrode resistors to minimize loading effect on amplifier. In order to minimize spot defocusing, it is essential that anode No.2 be returned to a point in the amplifier system which will give the lowest possible potential difference between anode No.2 and the deflecting electrodes.

Devices and arrangements shown or described herein may use patents of RCA or others. Information contained herein is furnished without responsibility by RCA for its use and without prejudice to RCA's patent rights.



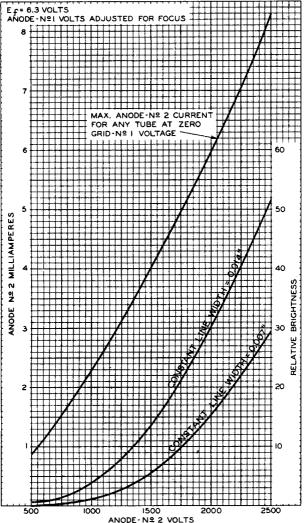




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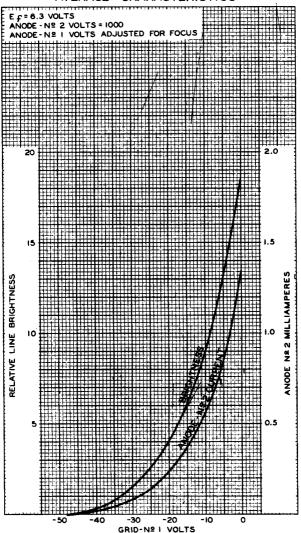








#### AVERAGE CHARACTERISTICS





ELECTROSTATIC FOCUS

ELECTROSTATIC DEFLECTION

The 2BP11 is the same as the 2BP1 except that it has a phosphor of the short-persistence, blue-fluorescence type designated P11. The blue radiation of the P11 screen is highly actinic and has sufficiently short persistence to permit use of the 2BP11 in all moving film photographic applications without blurring except in those where film moves at a high speed. The 2BP11 is also quite satisfactory for visual observation of phenomena because its phosphor has unusually high brightness for a blue screen.

In general, operation of the 2BP11 at an anode-No.2 voltage less than 1000 volts is not recommended.

THE SPECTRAL-ENERGY EMISSION CHARACTERISTIC and the PERSISTENCE CHARACTERISTIC of the P11 Phosphor are shown at the front of this Section