

MAGNETIC FOCUS

E MAGNETIC DEFLECTION

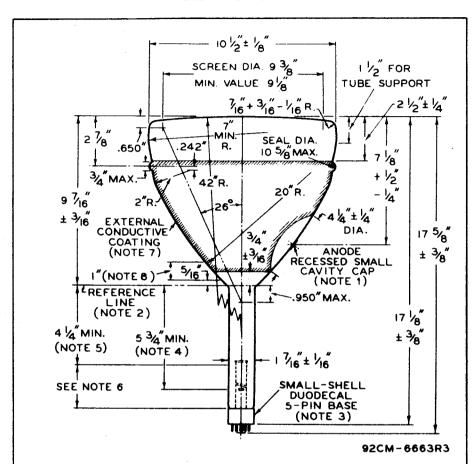
DATA	
General:	ł
Heater, for Unipotential Cathode: Voltage 6.3 ac or dc vol Current 0.6 a	ts mp
Direct Interelectrode Capacitances (Approx.): Grid No.1 to All Other Electrodes 6	μf μf
External Conductive Coating to Anode . \{ 2000 max. \text{ \mu} \}	μτ μf
Face Plate (Transmission of about 65%) RCA "Filterglass Phosphor (For Curves, see front of this Section) No.4-Sulfide Ty Fluorescence and Phosphorescence Whi Persistence of Phosphorescence Media Focusing Method Magnet Deflection Method Magnet	s pee mic co t " " you be not co t " " " you be not co t " " " you be not consider the consideration of the consid
Maximum Ratings, Design-Center Values:	
ANODEOVOLTAGEO	
Negative bias value	ts
Heater negative with respect to cathode: During equipment warm-up period not exceeding 15 seconds 410 max. vol After equipment warm-up period 150 max. vol Heater positive with respect to cathode. 150 max. vol	ts
O Anode and grid No.3, which are connected together within tube, are referred to herein as anode. The product of anode voltage and average anode current should be limit to 6 watts.	e-





Typical Operation:		
Anode Voltage* 9000 Grid-No.2 Voltage 250 Grid-No.1 Voltage for Visual Extinction of Undeflected	11000 250	volts volts
Focused Spot27 to -63 Focusing-Coil Current	-27 to -63	vol ts
(DC, Approx.)† 115 Ion-Trap-Magnet Current	125	ma
(DC, Approx.)∦ 155	180	ma
Maximum Circuit Values: Grid-No.1-Circuit Resistance	. 1.5 max.	megohms
Minimum Circuit Values: The power supply should be of the limi inherent regulation to limit the continuous	ted-energy ty	pe with
rent to 5 ma. If the supply permits the circuit current to exceed 1 ampere, or i more than 250 microcoulombs, the effecti cuit between indicated electrode and should be as follows:	instantaneous s capable of ve resistance	short— storing in cir—
Grid-No.1-Circuit Resistance Grid-No.2-Circuit Resistance Anode-Circuit Resistance	150 min. . 470 min. . 15000 min. withstanding	ohms ohms
plied voltage.	J	,
Components:		
Horizontal-Deflection-Output & High-Volta For use with pulse-operated high-volta giving 10000-12000 volts Horizontal Linearity Control Width Control Vertical-Deflection Output Transformer, Deflecting Yoke Ion-Trap Magnet (Permanent-Magnet Type). Focusing Coiloo	ge supply RC RC RC RC	CA-217T1 CA-207R1 CA-206R1 CA-204T9 CA-205D1 CA-203D3 CA-202D1
* Brilliance and definition decrease with decreance and the anode voltage should not be less for JETEC Focusing Coil No.106, or equivalen line of air gap approximately 3-1/4 inches Outline Drawing). The indicated currents are the combined grid-No.1 bias voltage and vide to produce a highlight brightness of 25 foo or 30 foot-lamberts for 11000 volts, on an 8 For JETEC Ion-Trap Magnet No.108, or equivale pieces longitudinally opposite intermal pole	t, positioned with from Reference to for the conditionsignal voltage that amberts for 90 "x 6" picture are nt. located with the formula to th	th center Line (See tion with adjusted DOO volts, ea. main pole
give maximum brightness. OO Renewal Sales item only.	e pieces, and it	5.4.60 10





- NOTE 1: THE PLANE THROUGH THE TUBE AXIS AND VACANT PIN POSITION No.3 MAY VARY FROM THE PLANE THROUGH THE TUBE AXIS AND ANODE TERMINAL BY AN ANGULAR TOLERANCE (MEASURED ABOUT THE TUBE AXIS) OF 10°. ANODE TERMINAL IS ON SAME SIDE AS VACANT PIN POSITION No.3.
- NOTE 2: REFERENCE LINE IS DETERMINED BY POSITION WHERE HINGED GAUGE 1.500" + .003" .000" I.D. AND 2" LONG WILL REST ON BULB CONE.
- NOTE 3: SOCKET FOR THIS BASE SHOULD NOT BERIGIDLY MOUNTED; IT SHOULD HAVE FLEXIBLE LEADS AND BE ALLOWED TO MOVE MORE FREELY. BOTTOM CIRCUMFERENCE OF BASE SHELL WILL FALL WITHIN CIRCLE CONCENTRIC WITH BULB AXIS AND HAVING DIAMETER OF 1-7/8".
- NOTE 4: DISTANCE TO INTERNAL POLE PIECES. PLANE THROUGH VACANT PIN POSITION No.6 AND TUBE AXIS PASSES THROUGH LINE JOINING CENTERS OF POLE PIECES. DIRECTION OF PRINCIPAL FIELD OF ION-TRAP MAGNET SHOULD BE SUCH THAT NORTH POLE IS ADJACENT TO VACANT PIN POSITION No.6 AND SOUTH POLE TO PIN No.12.
- NOTE 5: LOCATION OF DEFLECTING YOKE AND FOCUSING—COIL MUST BE WITHIN THIS SPACE.

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NOTE 6: KEEP THIS SPACE CLEAR FOR ION-TRAP MAGNET.

NOTE 7: EXTERNAL CONDUCTIVE COATING MUST BE GROUNDED.

NOTE 8: FOR TUBE SUPPORT WHICH MUST NOT COVER SPECIFIED

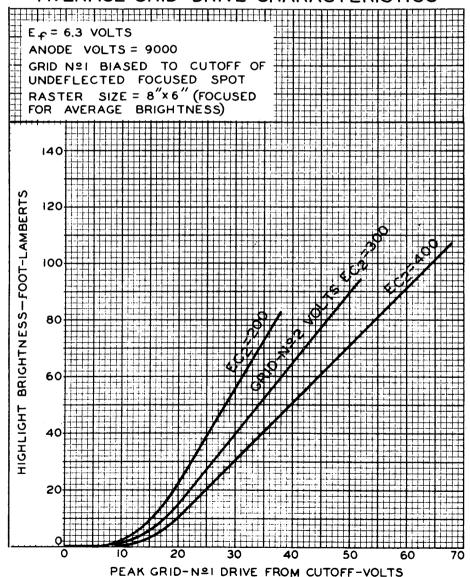
CLEAR AREA AROUND ANODE CAP.



CURVES

The following Grid-Drive Characteristics Curves are for the condition with grid No.1 biased to give visual extinction of the undeflected, focused spot. Inviewing television pictures, it will be found that the actual cutoff voltage corresponding to black in the picture is approximately 5 volts less negative than shown on the curves; similarly, the grid-No.1 drive to obtain a given anode current or light output is also about 5 volts less.

AVERAGE GRID-DRIVE CHARACTERISTICS

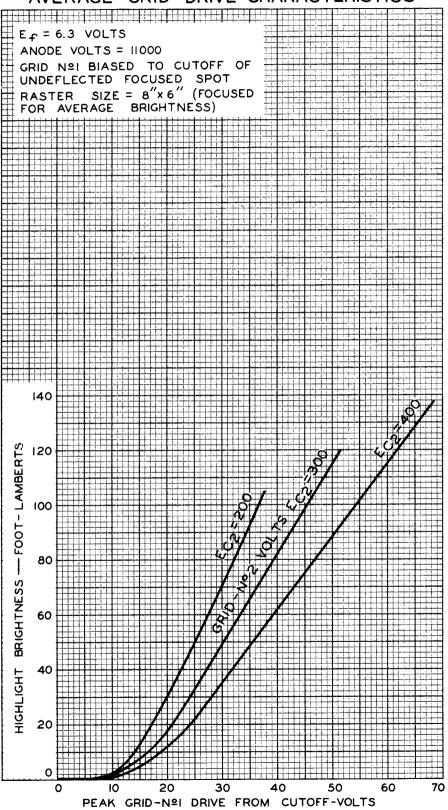


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AVERAGE GRID-DRIVE CHARACTERISTICS





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