

High-vacuum cathode-ray tube with electrostatic focusing and deflection and a bluish, extremely short-persistence screen. Its rapid decay and direct electrostatic beam control suit oscillographic measurement and transient display.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded.
Source-derived section; identical dual beam-power sections compressed where applicable.

Rsflf"% Pefi"? -@J March 21 1945 - 908- 'i'f: HIGH-VACUUM CATHODE-RAY TUBE 'General: Heater, for Unipotential Cathode R Voltage. « + 4+ = « & o 2.5%10% . . . a or dc volts Current. v « v v o oo v 21 o ioe e oo .. am. Direct Interelectrode Capacitances: ' : . Grid to All Qther Electrodes. . . « . . 9.0 .. upf DJq to All Other Electrodes. .+ . . . 85 .. pf - DJ3 to A1l Other Electrodes. « & « .o 6.5 . . upf PhosPhOr « . « «-v s s o w oo o o ¢ s a s o o oo No. b Fluorescence « . = v ¢ o o & o« & e e e s« « o Bluish Persistence. « « « « ¢ « & ;<Br|ghtness negllglble in . less than 30 microseconds Focusing Method. « + v « « o v & Electrostatic De

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1940 RCA

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1940 RCA

Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage. « +	10 V	Voltage. « + 4+ = « & o 2.5%10% . . . a or dc volts
Grid to All Qther Electrodes. . . «	9 pF	Grid to All Qther Electrodes. . . « . . 9.0 .. upf
DJq to All Other Electrodes. .+	85 pF	DJq to All Other Electrodes. .+ . . . 85 .. pf -
DJ3 to All Other Electrodes. « & « .o	6.5 pF	DJ3 to All Other Electrodes. « & « .o 6.5 .. upf
less than	30 s	. less than 30 microseconds
ANODE No	1650 V	. ANODE No.2 VOLTAGE. + v v = 4w o o o « » 1650 max. volts'
ANODE No	1 V	- ANODE No.1 VOLTAGE . + v v & « o &« "«
. 1100 max. volts	1100 V	. 1100 max. volts
PEAK VOLTAGE BETWEEN ANODE No	2 V	PEAK VOLTAGE BETWEEN ANODE No.2 and e S :
ANY DEFLECTING ELECTRODE	660 V	: ANY DEFLECTING ELECTRODE . 660 max. volts
Anode No	1500 V	Anode No.2 Voltage™ ®. 1000 1500 . . volts -
Anode No	4 V	.Anode No.1 Voltage for.Focus at 4 T
75% of Grid Voltage for Cutoff® 285. 430-approx,volts	430 V	75% of Grid Voltage for Cutoff® 285. 430-approx,volts
Grid Voltage for Visual Cutoff#	-50 V	Grid Voltage for Visual Cutoff#. . -33 . -50 . . volts
Max. Anode No	1330 A	. Max. Anode No.1 Current™ ~—. 1330 - microamp..-

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
* Brilliance and definition decrease wuth decreasing anode No	2 V	* Brilliance and definition decrease wuth decreasing anode No.2 voltage.
in general, anode No	1000 V	in general, anode No.2 voltage should not be less than 1000 volts. '
* Under conditions with anode No	1500 V	* Under conditions with anode No.2 volts =1500, anode No.1 volts adJusted A
for focus, and grid volts =	0 V	for focus, and grid volts =0,)
able test conditions are: anode No	1500 V	able test conditions are: anode No.2 voltage, 1500 volts; ~
resistors, megohm each, connected to anode No	2 ohm	resistors, megohm each, connected to anode No.2; the tube
Grid-Circuit Impedance. . « . «	1.5 ohm	Grid-Circuit Impedance. . « . « 1.5 max. mégohmsff:*
Circuit at Heater-Supply Frequency	1 ohm	Circuit at Heater-Supply Frequency 1.0 max. megohm-
Electrode. Circuit	5 ohm	Electrode. Circuit . 5.0 max. megohms™ ~ . .
H Eg	1 V	H Eg 2.5 VOLTS 1 IAENNNERE AR R
FOCUSING ELECTRODE (ANODE N2	1 V	FOCUSING ELECTRODE (ANODE N21) VOLTS