

Flat-face five-inch high-sensitivity cathode-ray tube with electrostatic focusing and electrostatic deflection, designed for precision oscillographic applications. Its P1 screen supports accurate direct waveform viewing.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	12
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	16 V
<i>CRT-specific electrode voltages, deflection factors, capacitances, focus/cutoff data, and other published electrical values are stored as section parameters because the promoted section columns are primarily conventional valve fields.</i>	

Flat-face 5-inch high-sensitivity electrostatic-focus and electrostatic-deflection cathode-ray tube for precision oscillographic applications.



SOURCE OPERATING CONDITIONS

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1938 Raytheon

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

1938 RAYTHEON

Section 1 · Cathode Ray

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Oscilloscope_Display text	—



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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1950 SYLVANIA

Section 1 · Cathode Ray

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
5sADP1A 5ADP2A 5ADP7A 5ADP11A 5ADP31A Electrostatic Deflection	31 A	5sADP1A 5ADP2A 5ADP7A 5ADP11A 5ADP31A Electrostatic Deflection
Heater Voltage« « o v o oo 6.3 Volts	6.3 V	Heater Voltage« « o v o oo 6.3 Volts
Minimum Anode No. 3 Voltage (SADP-,5ADP-B) 1500 Volts dc	1500 V	Minimum Anode No. 3 Voltage (SADP-,5ADP-B) 1500 Volts dc
Minimum Anode No. 3 Voltage (SADP-A) 2500 Volts dc	2500 V	Minimum Anode No. 3 Voltage (SADP-A) 2500 Volts dc
Anode No. 2 Voltage? o 0o e e 2860 Volts dc	2860 V	Anode No. 2 Voltage? o 0o e e 2860 Volts dc

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AnodeNo.1Voltage e 1100 Volts dc	1100 V	AnodeNo.1Voltage e 1100 Volts dc
Grid No. 1 Voltage	1 V	Grid No. 1 Voltage
Peak Voltage Between Anode No. 2 and Any Deflection Plate 550 Volts	550 V	Peak Voltage Between Anode No. 2 and Any Deflection Plate 550 Volts
AnodeNo.3Voltage e e 3000 Volts dc	3000 V	AnodeNo.3Voltage e e 3000 Volts dc
AnodeNo.2Voltage o 1500 Volts dc	1500 V	AnodeNo.2Voltage o 1500 Volts dc
Anode No. 1 Voltage for Focus 300 to 515 Volts dc	515 V	Anode No. 1 Voltage for Focus 300 to 515 Volts dc
Grid No. 1 Voltage Required for Cutoff3 -34 to -56 Volts dc	56 V	Grid No. 1 Voltage Required for Cutoff3 -34 to -56 Volts dc
. The product of the Anode No. 2 Voltage and the Average Anode No. 2 Current should be limited to 6	6 W	. The product of the Anode No. 2 Voltage and the Average Anode No. 2 Current should be limited to 6 watts.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode No. 3 Voltage 6600 Volts dc	6600 V	Maximum Anode No. 3 Voltage 6600 Volts dc
Ratio of Anode No. 3 Voltage to Anode No. 2 Voltage 2.3:1 Max.	2 V	Ratio of Anode No. 3 Voltage to Anode No. 2 Voltage 2.3:1 Max.
range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,0	16 V	range if this tube is operated at higher than the manufacturer's Maximum Rated Anode Voltage or 16,000 volts, whichever is less.

1958 Compagnie General

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1958 COMPAGNIE GENERAL

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Diameter	13 cm	—
Focusing Method	Electrostatic text	—
Deflection Method	Electrostatic text	—
Post-Acceleration Electrode	Present text	—



SOURCE DATA APPENDIX

1960 Du Mont

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1960 DU MONT

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	1 code	Electrostatic
Deflection method	1 code	Electrostatic
Deflection factor D1-D2	—	Published range 40 to 50 V/in
Deflection factor D3-D4	—	Published range 30.5 to 37.5 V/in

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Accelerator voltage maximum	3000 V	—
Accelerator voltage	1500 V	—
Post-accelerator voltage maximum	6000 V	—
Post-accelerator voltage	3000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 voltage	—	Published range -56 to -34 V
Grid No. 1 negative bias maximum	200 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode to all other electrodes	3.1 pF	Approximate or first published bound
Grid No. 1 to all other electrodes	4.2 pF	Approximate or first published bound



SOURCE OPERATING CONDITIONS

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1965 Sylvania Electronic Tubes Vol3

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1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	600 mA	Nominal; $\pm 10\%$
Focusing Method	Electrostatic text	—
Deflection Method	Electrostatic text	—
Fluorescence	Green text	—
Persistence	Medium text	—
Cathode-to-All Capacitance Minimum	3.1 pF	—
Cathode-to-All Capacitance Maximum	5.8 pF	—
Grid1-to-All Capacitance Minimum	4.2 pF	—
Grid1-to-All Capacitance Maximum	7.9 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode3 Voltage	6600 V	—
Minimum Anode3 Voltage	1500 V	5ADP-B or standard family
Maximum Anode2 Voltage	2860 V	—
Maximum Anode1 Voltage	1100 V	—
Maximum Grid1 Negative Bias	200 V	—
Maximum Grid1 Positive Peak	2 V	—
Maximum Heater-Cathode Voltage	180 V	EitherPolarity
Maximum Anode2-to-Deflection-Plate Voltage	550 V	—
Typical Anode3 Voltage	3000 V	—
Typical Anode2 Voltage	1500 V	—
Focus Voltage Minimum	300 V	Anode1
Focus Voltage Maximum	515 V	Anode1
Grid1 Cutoff Voltage Minimum	-56 V	—
Grid1 Cutoff Voltage Maximum	-34 V	—
Deflection Factor Plates 1-2 Minimum	40 V/in	—
Deflection Factor Plates 1-2 Maximum	50 V/in	—
Deflection Factor Plates 3-4 Minimum	30.5 V/in	—
Deflection Factor Plates 3-4 Maximum	37.5 V/in	—
Maximum Modulation Voltage	45 V	—
Maximum Line Width	0.03 in	—
Maximum Grid1 Circuit Resistance	1.5 Mohm	—
Maximum Deflection Plate Circuit Resistance	5 Mohm	—



1971 RCA HB3 Binder 1 of 7

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

1971 RCA HB3 BINDER 1 OF 7

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage	6.3 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Current – published value 1	0.6	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Current – published value 2	10	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.1 to all other electrodes – published value 1	4.2	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Grid No.1 to all other electrodes – published value 2	7.9	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 1 -Heater – published value 1	1	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 1 -Heater – published value 2	9	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 2 -Cathode	2	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 3 -Grid No.1	3	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 5 -Grid No.3 – published value 1	5	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Pin 5 -Grid No.3 – published value 2	11	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Electrode	14	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
With any Bost-ultor voltage (Ec51 between 2oao` and 600o volts – published value 1	2 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
With any Bost-ultor voltage (Ec51 between 2oao` and 600o volts – published value 2	600 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
for. Focus – published value 1	20 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
for. Focus – published value 2	34.5 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Spot – published value 1	2.25 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Spot – published value 2	3.75 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Spot Position	4	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
~~ 0.t or near this rat ing , , the effective resistance of the ul for supply	0	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
should be adequate to limit the ultor input power to 6 watts	6 W	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
~ It is recommended that the post-ultor voltage be not lessthan 3000	3000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
## with neater voltage of 6.3	6.3 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
allot voltage of 2000 volts, grid-No.3 voltage adjusted to give focus,`	2000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
u ndeflec led, focused spot will fall within a circle having an 8–mm	8	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
and ultor voltage of – published value 1	1 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
and ultor voltage of – published value 2	0 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
and ultor voltage of – published value 3	2000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Focus – published value 1	300 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
Focus – published value 2	515 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
POST-ULTOR VOLTAGE	6000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
ULTOR VOLTAGE	2600 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
ULTOR VOLTAGE – published value 1	2 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
ULTOR VOLTAGE – published value 2	3.1 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.
GRID-No.3 VOLTAGE	1000 V	Published CRT datasheet value; where a source row has several numbers they represent its separate limits or operating conditions.

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