

ELECTRONIC TUBE REFERENCE

2BP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Two-inch oscilloscope and instrument cathode-ray tube with electrostatic focusing and deflection and a P1 screen. Its compact electron-optical system operates with anode voltage up to approximately 2 kV.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	10
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	2000 V
MAXIMUM SCREEN VOLTAGE	500 V
Electrostatic oscillograph CRT.	

Electrostatically focused and deflected oscilloscope/instrument CRT with P1 phosphor.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 General Electric Transmitting Types

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

1950 GENERAL ELECTRIC TRANSMITTING TYPES

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflection method	Electrostatic	—
Phosphor	P1	—



SOURCE OPERATING CONDITIONS

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1950 Sylvania

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

1950 SYLVANIA

Section 1 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage 6.3 Volts	6.3 V	Heater Voltage 6.3 Volts
Anode No. 2 Voltage 2750 Volts dc	2750 V	Anode No. 2 Voltage 2750 Volts dc
Any Deflection Plate 550 Volts A Division of	550 V	Any Deflection Plate 550 Volts A Division of

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode No. 2 Voltage? . . . , ... 1000 2000 Volts dc SENECA FALLS, NEW YORK	2000 V	Anode No. 2 Voltage? . . . , ... 1000 2000 Volts dc SENECA FALLS, NEW YORK
Anode No. 1 Voltage for Focus . . 150-280 300-560 Volts dc	-560 V	Anode No. 1 Voltage for Focus . . 150-280 300-560 Volts dc
2. Brilliance and definition decrease with decreasing Anode No. 2 Voltage. In general, Anode No. 2 V	2 V	2. Brilliance and definition decrease with decreasing Anode No. 2 Voltage. In general, Anode No. 2 Voltage should not be less

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Max. Grid Voltage Required for Cutoff3 ~67.5 -135 Volts dc	-135 V	Max. Grid Voltage Required for Cutoff3 ~67.5 -135 Volts dc


SOURCE DATA APPENDIX

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
Focusing method	Electrostatic	—
Deflection method	Electrostatic	—
Heater voltage	6.3 V	—
Heater current	600 mA	—
Fluorescence	Green	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Oscilloscope / precision instrument display	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode-2 voltage	2750 V	—
Typical anode-1 focus voltage	1100 V	—
Grid cutoff voltage range	-67.5 to -135 V	—
Anode-2 voltage maximum	3000 V	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	600 mA	—
Peak heater-cathode voltage, heater negative	125 V	—
Typical final accelerating anode voltage	1500 V	—
Maximum deflecting electrode voltage	550 V	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflection method	Electrostatic	—
Phosphor	P1	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Fluorescence	Green	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Persistence	Medium	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid #1 to all other electrodes capacitance	8 pF	Approximate

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Oscilloscope/cathode-ray display	—

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