



ELECTRONIC TUBE REFERENCE

5AZP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Five-inch projection kinescope with electrostatic focusing and magnetic deflection, designed to create a bright television image for optical enlargement. Its very high accelerating voltage supports projection-display brightness.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
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	42000 V
<i>CRT maximum accelerating/anode/ultor voltage is promoted to MaxPlateVoltage; additional electrode ratings, capacitances, operating conditions, deflection/focus and optical data are preserved as parameters.</i>	

Five-inch projection kinescope with electrostatic focus and magnetic deflection for projected television pictures.



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater or filament voltage	6.3 V	Published nominal value
Heater or filament current	600 mA	Published nominal value
Focusing method	Electrostatic	Published
Deflection method	Magnetic	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Projection television kinescope	Published description



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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
Maximum grid 3 voltage	9000 V	—
Maximum grid 2 voltage	400 V	—
Maximum grid 1 negative-bias voltage	150 V	NegativeBias

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum grid 1 positive-bias voltage	0 V	PositiveBias
Maximum grid 1 positive-peak voltage	2 V	PositivePeak
Peak heater-cathode voltage	175 V	HeaterNegative
Peak heater-cathode voltage	10 V	HeaterPositive
Recommended anode voltage	40000 V	TypicalOperation
Average anode current	300 uA	TypicalOperation
Maximum average anode power without forced-air cooling	9 W	NoForcedAirCooling
Maximum average anode power with forced-air cooling	12 W	ForcedAirCooling
Maximum accelerating/anode voltage	42000 V	—
Anode Voltage	42000 V	Maximum
Voltage	9000 V	Maximum
Grid-No.2 Voltage	400 V	Maximum
Average Anode Current	300 uA	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to all other electrodes capacitance	8 pF	Approximate
Cathode to all other electrodes capacitance	5 pF	Approximate

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection angle	50 degrees	Approximate
Deflection Angle (Approx.)	50 degrees	—
^^ Grid No.1 to all other electrodes	8 pF	—
Cathode to all other electrodes	5 pF	—
Deflection angle	50 degrees	Approximate



TUBE TINKER

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and their source documents.

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