



ELECTRONIC TUBE REFERENCE

25AJP22

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Twenty-five-inch color television picture tube with three electrostatically focused guns, magnetic convergence/deflection, and an aluminized P22 tricolor screen. High-voltage direct-view construction and shadow-mask color presentation place it firmly in color receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 900 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	27500 V
MAXIMUM SCREEN VOLTAGE	1000 V
<i>Three-gun color CRT; focus electrode up to 6000 V.</i>	

25-inch rectangular color picture tube with three electrostatic-focus guns, magnetic convergence/deflection, and P22 rare-earth tricolor phosphor-dot screen.

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
Heater voltage	6.3 V	—
Heater current	900 mA	ThreeGuns
Maximum anode voltage	27500 V	—
Maximum focusing-electrode voltage	6000 V	—
Typical anode voltage	25000 V	ColorPictureTube
Focusing-electrode voltage minimum	16.8 % of anode	FocusRange
Focusing-electrode voltage maximum	20 % of anode	FocusRange
X-ray shielding warning	Present	HighAnodeVoltage

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Focus lens	Bipotential	—
Convergence method	Magnetic	—
Deflection method	Magnetic	—
Phosphor	P22	Tricolor

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Persistence	Medium Short	—
Diagonal deflection angle	89 deg	Approximate
Horizontal deflection angle	78 deg	Approximate

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vertical deflection angle	63 deg	Approximate
Faceplate light transmission at center	42 %	Approximate

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 of any gun to all other electrodes	6 pF	Approximate
Grid No.3 to all other electrodes	6.5 pF	Approximate
All cathodes to all other electrodes	15 pF	Approximate

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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