



ELECTRONIC TUBE REFERENCE

24CP4B

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Twenty-four-inch rectangular glass television picture tube with magnetic focusing, 90-degree magnetic deflection, and an aluminized P4 white screen. RCA documentation supports high-voltage direct-view monochrome receiver service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 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	22000 V
MAXIMUM SCREEN VOLTAGE	600 V
<i>Television picture CRT; magnetic focus and 90-degree magnetic deflection.</i>	

Rectangular glass television picture tube with aluminized P4 white screen, magnetic focus, and 90-degree magnetic deflection.

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	600 mA	—
Maximum anode voltage	22000 V	—
Typical anode voltage	18000 V	TelevisionPictureTube
Grid #1 extinction range minimum	-72 V	VisualExtinction
Grid #1 extinction range maximum	-28 V	VisualExtinction
Peak heater-cathode voltage, heater positive	200 V	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Magnetic	—
Deflection method	Magnetic	—
Phosphor	P4	AluminizedWhite
Ion-trap magnet required	No	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection angle	90 deg	—
Faceplate light transmission	75 %	Approximate

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid #1 to all other electrodes capacitance	6 pF	—
Cathode to all other electrodes capacitance	5 pF	—
External conductive coating to anode capacitance minimum	2000 pF	—
External conductive coating to anode capacitance maximum	2500 pF	—

TUBE TINKER

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

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