ELECTRONIC TUBE REFERENCE

25BHP22

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

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	27500 V
MAXIMUM SCREEN VOLTAGE	1000 V
Color CRT variant in 25BCP22 electrical family.	

Color picture tube variant using rare-earth red P22 phosphor and the 25BCP22-family electrical system.

SOURCE OPERATING CONDITIONS

1971 RCA HB3 Binder 1 of 7

SOURCE PDF

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
Rare-earth red-emitting phosphor	**Present**	P22

CHARACTERISTIC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Persistence	**Medium Short**	—

Tube Tinker

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

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