ELECTRONIC TUBE REFERENCE

21FDP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Twenty-one-inch direct-view monochrome television picture tube with magnetic deflection and high-voltage operation. Manufacturer documentation describes its focusing system, picture-screen construction, and receiver-display characteristics for large-screen television service.

General characteristics

BASE DESIGNATION	67-208	**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	20000 V

CRT maximum accelerating/anode/ultor voltage is promoted to MaxPlateVoltage; additional electrode ratings, capacitances, operating conditions, focus/deflection and optical data are preserved as parameters.

21FDP4 is a picture tube using electrostatic focusing and magnetic deflection. The source specifies a P4 screen and publishes CRT accelerating/anode ratings, control and focusing-electrode limits, heater-cathode limits, capacitances, and operating or deflection characteristics.

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

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Heater warm-up time	**11 s**	—
Faceplate light transmission	**76 %**	Approximate

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Maximum grid 2 voltage	**550 V**	—
Maximum grid 1 negative-bias voltage	**155 V**	NegativeBias
Maximum grid 1 positive-bias voltage	**0 V**	PositiveBias
Maximum grid 1 positive-peak voltage	**2 V**	PositivePeak
Maximum grid 1 negative-peak voltage	**400 V**	NegativePeak
Peak heater-cathode voltage	**200 V**	HeaterNegativeOperating
Projected screen area	**262 in^2**	—

TUBE TINKER

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

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