



ELECTRONIC TUBE REFERENCE

21CQP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Large P4 monochrome television picture tube documented for high-voltage direct-view service, using magnetic deflection and manufacturer-specified focusing and beam-control arrangements for type 21CQP4.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7FA	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	18000 V
Cathode-ray electron-gun/screen system; anode/ultor maximum promoted to MaxPlateVoltage when explicitly published. Explicit X-ray warning/precaution or X-radiation characteristic is present in the supplied source.	

A lightweight 21-inch direct-view rectangular glass television picture tube with electrostatic focus, 110-degree magnetic deflection, gray filter glass and an aluminized P4 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	Nominal heater voltage
Heater Current	600 mA	Nominal heater current
Phosphor	P4	Published phosphor designation
Voltage (AC or DC)	6.3 V	Voltage (AC or DC) 6.3 volts
Current	5 A	Current 0.6 t 5% amp
Warm-up time (Average)	11 s	Warm-up time (Average) 11 sec
ULTOR VOLTAGE	18000 V	ULTOR VOLTAGE. 18000 max. volts
GRID-No.2 VOLTAGE	500 V	GRID-No.2 VOLTAGE. 500 max. volts
respect to cathode	180 V	respect to cathode 180 max. volts
Grid-No.1-Circuit Resistance	5 MΩ	Grid-No.1-Circuit Resistance 1 5 max. megohms

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing Method	Electrostatic	Published focusing method
Deflection Method	Magnetic	Published deflection method

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