

ELECTRONIC TUBE REFERENCE

2F21

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch monoscope with electrostatic focusing, magnetic deflection, and an internal pattern electrode. RCA designed it to generate fixed television and test patterns electronically rather than display an externally supplied image.

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

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	1500 V
MAXIMUM SCREEN VOLTAGE	600 V
Monoscope; pattern electrode and collector ratings retained as parameters.	

Five-inch monoscope with electrostatic focus, magnetic deflection, and internal pattern electrode for television/test-pattern generation.

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.

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Section 1 · Cathode Ray

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	600 mA	—
Pattern electrode voltage maximum	1500 V	—
Grid #4 collector voltage maximum	1500 V	—
Grid #3 focusing voltage maximum	600 V	—
Peak heater-cathode voltage	125 V	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflection method	Magnetic	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum solid deflection angle	40 deg	—
Pattern calibration	Up to 500 lines	—