

ELECTRONIC TUBE REFERENCE

7TP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Seven-inch monitor kinescope with electrostatic focusing, magnetic deflection, and a P4 screen. RCA documentation provides accelerating-electrode, control, capacitance, and deflection data with anode capability around 12 kV.

GENERAL CHARACTERISTICS

BASE DESIGNATION	J1-21	BASE PINS	6
NOMINAL HEATER	6.3 V / 6 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	12000 V
CRT maximum accelerating/anode/ultor voltage is promoted to MaxPlateVoltage; additional electrode ratings, capacitances, operating conditions, deflection/focus and optical data are preserved as parameters.	

7TP4 is a monitor kinescope using electrostatic focusing and magnetic deflection. The source specifies a P4 screen and publishes CRT accelerating-electrode ratings, control/focus electrode limits, heater-cathode limits, capacitances, and operating or deflection characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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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
Maximum grid 3 voltage	2000 V	—
Maximum grid 2 voltage	410 V	—
Maximum grid 1 negative-bias voltage	125 V	NegativeBias
Maximum grid 1 positive-bias voltage	0 V	PositiveBias
Maximum grid 1 positive-peak voltage	2 V	PositivePeak
Peak heater-cathode voltage	410 V	HeaterNegativeWarmup
Peak heater-cathode voltage	180 V	HeaterNegativeAfterWarmup
Peak heater-cathode voltage	180 V	HeaterPositive
Maximum accelerating/anode voltage	12000 V	—
ULTOR' VOLTAGE	12000 V	Maximum
GRID-No.3 VOLTAGE	2000 V	Maximum
GRID-No.2 VOLTAGE	410 V	Maximum

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to all other electrodes capacitance	6 pF	Approximate
Cathode to all other electrodes capacitance	5 pF	Approximate

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current	6 A	—
Grid No.1 to All Other Electrodes	6 pF	—
Cathode to All Other Electrodes	5 pF	—
For ultor voltage of }	20000 V	—
Ultor Current of 100 μ amp	1160–1580 V	—
Focused Spot	-22--52 V	—
Grid-No.1-Circuit Resistance	1.5 M Ω	Maximum

TUBE TINKER

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