



ELECTRONIC TUBE REFERENCE

21DSP4

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 a P4 display screen. Manufacturer documentation places it in the high-voltage receiver CRT family, with construction optimized for bright rectangular picture presentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12L	BASE PINS	6
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.	

21DSP4 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

[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 2 voltage	64 V	—
Maximum grid 1 negative-bias voltage	0 V	NegativeBias
Maximum grid 1 positive-bias voltage	140 V	PositiveBias
Maximum grid 1 positive-peak voltage	200 V	PositivePeak
Maximum grid 1 negative-peak voltage	2 V	NegativePeak
Peak heater-cathode voltage	180 V	HeaterNegativeOperating
Projected screen area	262 in^2	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 4 current	-25–25 µa	—
Grid 2 current	-15–15 µa	—
Diagonal deflection angle	90 deg	Approximate
Horizontal deflection angle	85 deg	Approximate
Vertical deflection angle	68 deg	Approximate
Faceplate light transmission	74 %	Approximate

TUBE TINKER

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