ELECTRONIC TUBE REFERENCE

23DVP4A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
CATHODERAY

Twenty-three-inch direct-view monochrome television picture tube with electrostatic focusing, magnetic deflection, and high-voltage operation. Manufacturer data documents its large-screen receiver-display construction, optical characteristics, and picture-tube operating limits.

General characteristics

BASE DESIGNATION	—	**BASE PINS**	—
NOMINAL HEATER	6.3 V / 450 mA	**PARALLEL HEATER**	— / —
HEATING	Indirect	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Cathode Ray

MAXIMUM PLATE VOLTAGE	23000 V

Published CRT maximum ratings, operating conditions, capacitances, and deflection/focus data retained; X-ray precautions apply at elevated EHT.

23-inch direct-view monochrome television picture tube registered jointly with 23FWP4A.

SOURCE OPERATING CONDITIONS

1964 RMA EIA

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1964 RMA EIA

Section 1 · Cathode Ray

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	**Electrostatic**	—
Deflection method	**Magnetic**	—
Horizontal deflection angle	**99 deg**	—
Vertical deflection angle	**82 deg**	—
Diagonal deflection angle	**110 deg**	—
Heater voltage	**6.3 V**	—
Heater current	**450 mA**	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-to-all capacitance	**5 pF**	—
Grid1-to-all capacitance	**6 pF**	—
External coating capacitance minimum	**1700 pF**	—
External coating capacitance maximum	**2500 pF**	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage maximum	**23000 V**	—
Anode voltage minimum	**12000 V**	—
Typical anode voltage	**16000 V**	—
Typical focus-electrode voltage	**250 V**	—
Typical grid2 voltage	**50 V**	—

APPLICATION		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Application	**Monochrome television picture display**	—

Tube Tinker

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

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