



ELECTRONIC TUBE REFERENCE

25HP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Twenty-five-inch direct-view monochrome television picture tube with electrostatic focusing, magnetic deflection, and a high-voltage P4 display system for large-screen receiver service.

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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	23000 V
<i>Published source ratings and characteristics promoted where applicable; additional electrical and operating data retained as parameters.</i>	

25-inch 110-degree monochrome television CRT with electrostatic focus, magnetic deflection, and aluminized P4 screen.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Cathode-ray display / television / instrumentation	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflection method	Magnetic	—
Diagonal deflection angle	110 deg	—
Horizontal deflection angle	89 deg	—
Vertical deflection angle	82 deg	—
Heater warm-up time	11 s	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-to-all capacitance	5 pF	—
Grid1-to-all capacitance	6 pF	—
External coating capacitance minimum	2000 pF	—
External coating capacitance maximum	2500 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage minimum	12000 V	—
Anode voltage maximum	23000 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focus-electrode positive voltage maximum	1000 V	—
Focus-electrode negative voltage minimum	-500 V	—
Grid2 voltage minimum	25 V	—
Grid2 voltage maximum	60 V	—
Heater voltage minimum	5.8 V	—
Heater voltage maximum	6.9 V	—
Typical anode voltage	16000 V	—
Typical focus voltage	250 V	—
Typical grid2 voltage	50 V	—
Cathode cutoff voltage range	35 to 55 V	—
Grid1 circuit resistance maximum	1.5 Mohm	—

TUBE TINKER

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

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