

ELECTRONIC TUBE REFERENCE

23EGP22A

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Twenty-three-inch 92-degree three-gun color television picture tube with electrostatic bipotential focusing and magnetic convergence/deflection. This revision uses a P22 rare-earth-red phosphor system for improved color display performance.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.35 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	27500 V
Published CRT maximum ratings, operating conditions, capacitances, and deflection/focus data retained; X-ray precautions apply at elevated EHT.	

Rare-earth-red phosphor revision of the 23EGP22 color television picture tube.

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

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gun count	3	—
Focus lens	Bipotential	—
Phosphor revision	P22 rare-earth red phosphor	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Convergence method	Magnetic	—
Deflection method	Magnetic	—
Diagonal deflection angle	92 deg	—
Horizontal deflection angle	80 deg	—
Vertical deflection angle	68 deg	—
Heater voltage nominal	6.3 V	—
Heater current	1.35 A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1 capacitance per gun	16 pF	—
All-cathodes capacitance	10 pF	—
Focus-electrode capacitance	12 pF	—
External coating capacitance minimum	1800 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage maximum	27500 V	—
Anode voltage minimum	20000 V	—
Heater voltage maximum	6.9 V	—
White-current share red	27 %	—
White-current share blue	33 %	—
White-current share green	40 %	—
X-radiation data	Not available in registration update	—

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

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