

ELECTRONIC TUBE REFERENCE

SC3154

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

High-resolution two-dimensional printing cathode-ray tube with magnetic focusing and magnetic deflection. Its approximately 25 kV operation supports precise electronic image and pattern printing.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
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	25000 V
Special-purpose cathode-ray tube; published ratings and construction data captured.	

High-resolution two-dimensional printing CRT with magnetic focus and magnetic deflection.



SOURCE OPERATING CONDITIONS

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Cathode Ray

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing method	Electrostatic	—
Deflection method	Magnetic	—

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Electrostatic charge printing	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Cathode Ray

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	600 mA	—
Focusing method	Magnetic	—
Deflection method	Magnetic	—
Horizontal deflection angle	52 deg	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum principal anode/accelerator voltage	25000 V	—
Anode voltage maximum	25000 V	—
Grid1 negative voltage maximum	-155 V	—
Heater voltage minimum	5.7 V	—
Heater voltage maximum	6.9 V	—
Heater-cathode voltage maximum	200 V	—
Typical anode voltage	10000 V	—
Typical grid2 voltage	500 V	—
Grid1 cutoff range	-40 to -77 V	—
Focus-coil current	50 mA	—
Recommended high-resolution anode voltage	20000 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	High-resolution two-dimensional printing CRT	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Printing array width	8.6 in	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode-to-all capacitance	5 pF	—
Grid1-to-all capacitance	8 pF	—

TUBE TINKER

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

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