



ELECTRONIC TUBE REFERENCE

SC3093

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Three-inch electrostatic-focus and electrostatic-deflection monoscope with a two-by-two-inch target plate, designed to generate fixed video patterns electronically for television and test applications.

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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	2500 V
Published ratings and characteristics promoted semantically from the approved source.	

Three-inch electrostatic-focus/electrostatic-deflection monoscope tube with a 2 x 2 inch target plate for fixed-pattern video generation.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	2500 V	—
Target Voltage Maximum	2500 V	—
Collector Voltage Maximum	2500 V	—
Cathode-to-Target Voltage Minimum	1100 V	—
Cathode-to-Target Voltage Maximum	1600 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Focusing Method	Electrostatic	—
Deflecting Method	Electrostatic	—
Target Area	2 x 2 inch	Approximate useful target area



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	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	600 mA	—
Focusing method	Electrostatic	—
Deflection method	Electrostatic	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum principal anode/accelerator voltage	1600 V	—
Grid1 negative voltage maximum	-200 V	—
Heater-cathode voltage maximum	200 V	—
Cathode-to-target voltage range	1100 to 1600 V	—
Collector-to-target voltage	50 V	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Three-inch electrostatic-focus/electrostatic-deflection monoscope tube	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Device function	Monoscope fixed-pattern video source	—
Target size	2 x 2 in	—

TUBE TINKER

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

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