



ELECTRONIC TUBE REFERENCE

4MP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Three-and-one-half-inch square direct-view oscilloscope CRT with electrostatic focusing and deflection plus post-deflection acceleration. Its P1 screen provides a green medium-persistence trace for instrumentation.

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

No fixed ratings recorded.

Published source values promoted where applicable.

Three-and-one-half-inch square direct-view oscilloscope CRT with electrostatic focus, electrostatic deflection, and post-deflection acceleration.



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

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



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
Focusing method	1 code	Electrostatic
Deflection method	1 code	Electrostatic
Deflection factor D1-D2 minimum	68 V/in	—
Deflection factor D1-D2 maximum	82 V/in	—
Deflection factor D3-D4 minimum	42 V/in	—
Deflection factor D3-D4 maximum	52 V/in	—
Useful screen / scan	1 code	2.875 x 2.875-inch minimum useful square scan

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection factor uniformity maximum	2 %	—
Pattern distortion maximum	2 %	—
Useful scan	2.875 in	MinimumSquareDimension

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode No. 2 / accelerator voltage maximum	3300 V	—
Post-accelerator / Anode No. 3 voltage maximum	6600 V	—
Anode No. 2 / accelerator voltage	2000 V	—
Post-accelerator / Anode No. 3 voltage	4000 V	—
Focusing electrode voltage maximum	1100 V	—
Focusing electrode voltage minimum	340 V	—
Focusing electrode voltage maximum	510 V	—
Grid No. 1 cutoff voltage minimum	-87 V	—
Grid No. 1 cutoff voltage maximum	-52 V	—
Peak heater-to-cathode voltage	200 V	—
Peak voltage between accelerator and any deflection plate	600 V	—
Grid No. 1 negative bias maximum	200 V	—

TUBE TINKER

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

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