

ELECTRONIC TUBE REFERENCE

3RP1

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Three-inch cathode-ray tube for oscilloscope and instrument display service, using electrostatic focusing and electrostatic deflection. Its P1 screen designation identifies the phosphor variant within this compact oscillographic family.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	10
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
No fixed ratings recorded. CRT-specific electrode voltages, deflection factors, capacitances, focus/cutoff data, and other published electrical values are stored as section parameters because the promoted section columns are primarily conventional valve fields.

Three-inch direct-view oscilloscope CRT with electrostatic focus and electrostatic deflection.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Phosphor	P1	—
Focusing Method	Electrostatic	—
Deflecting 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	146 V/in	—
Deflection factor D1-D2 maximum	198 V/in	—
Deflection factor D3-D4 minimum	104 V/in	—
Deflection factor D3-D4 maximum	140 V/in	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful screen / scan	1 code	3-inch round direct-view screen

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode No. 2 / accelerator voltage maximum	2750 V	—
Anode No. 2 / accelerator voltage	2000 V	—
Focusing electrode voltage maximum	1100 V	—
Focusing electrode voltage minimum	330 V	—
Focusing electrode voltage maximum	620 V	—
Grid No. 1 cutoff voltage minimum	-135 V	—
Grid No. 1 cutoff voltage maximum	-45 V	—
Peak heater-to-cathode voltage	140 V	—
Peak voltage between accelerator and any deflection plate	550 V	—
Grid No. 1 negative bias maximum	220 V	—

TUBE TINKER

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

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