



ELECTRONIC TUBE REFERENCE

SC4014

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Dual-gun Sylvania cathode-ray instrument tube with high-voltage post-acceleration to 15 kV, designed for simultaneous two-trace waveform or measurement display.

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	15000 V
Ratings and characteristics promoted from the supplied Sylvania source where explicitly published.	

Seven-inch flat-face two-gun CRT with electrostatic focus/deflection, linear post-acceleration, aluminized screen, and mu-metal potting.



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
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	600 mA	—
GunCount	2	—



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current for two guns in parallel	540 mA–660 mA	—
Anode No. 3 voltage maximum	15000 V	—
Anode No. 2 voltage maximum	4500 V	—
Anode No. 1 focus-electrode voltage maximum	1550 V	—
Grid No. 1 negative bias maximum	-220 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 positive bias maximum	0 V	—
Grid No. 1 positive peak maximum	2 V	—
Peak Anode No. 2 to deflecting-plate voltage maximum	550 V	—
Peak heater-cathode voltage maximum	200 V	—
Modulation maximum at Anode No. 3 current 25 uA	36 V	—
Anode No. 3 voltage	12400 V	—
Anode No. 2 voltage	2900 V	—
Grid No. 1 cutoff voltage	-65--35 V	—
Anode No. 1 focus voltage	750–1050 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Deflection factor D1-D2	116–134 V/in	—
Deflection factor D3-D4	116–134 V/in	—
Line width maximum	0.02 in	—
Useful scan D1-D2 minimum	2.625 in	—
Useful scan D3-D4 minimum	2.625 in	—
Maximum Anode No. 3 current at cutoff	60 uA	—
Interaction factor	0.00005 in/V	—