

ELECTRONIC TUBE REFERENCE

SC2809

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Five-inch high-resolution photographic-recording CRT with magnetic focusing and deflection and an extremely fine-grain P11 screen, designed by Sylvania for precision trace photography.

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
No fixed ratings recorded.
High-resolution photographic CRT electron-gun/display section.

The Sylvania SC2809 is a 5-inch high-resolution photographic-recording CRT with magnetic focus and deflection and an extremely fine-grain P11 screen.

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 text	—
Deflection Method	Magnetic text	—
Deflection Angle	50 deg	Approximate
Phosphor	Fine Grain Aluminized P11 text	—
Fluorescence	Blue text	—
Persistence	Short text	—
Line Width	0.0008 in	HighResolution

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	25000 V	—
Maximum Grid2 Voltage	2500 V	—
Maximum Grid1 Negative Bias	150 V	—
Maximum Heater-Cathode Voltage During Warmup	450 V	—
Maximum Heater-Cathode Voltage After Warmup	165 V	—
Anode Voltage	20000 V	PhotographicRecording
Grid2 Voltage	2000 V	PhotographicRecording
Grid1 Cutoff Voltage Minimum	-77 V	—
Grid1 Cutoff Voltage Maximum	-33 V	—
Focusing Coil Current	100 mA	Approximate

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Grid1 Circuit Resistance	1.5 Mohm	—

TUBE TINKER

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

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