



ELECTRONIC TUBE REFERENCE

5CEP16

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Five-inch flat optical-glass CRT for high-resolution photographic and oscillographic recording, using electrostatic focusing, magnetic deflection, and a fine-grain P16 screen for extremely fast, detailed recording.

GENERAL CHARACTERISTICS

BASE DESIGNATION	12Q	BASE PINS	12
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	22000 V
CRT highest published anode/accelerating voltage is promoted to MaxPlateVoltage; additional electrode, deflection, optical, and capacitance data are retained as parameters.	

Five-inch flat optical-glass CRT for high-resolution photographic/oscillographic recording, with fine-grain P16 screen, electrostatic focus, and magnetic deflection.

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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 to all other electrodes capacitance	9 pF	—
Grid No. 2 to all other electrodes capacitance	7 pF	—
Cathode to all other electrodes capacitance	7 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum anode voltage	22000 V	—
Maximum grid No. 3 focus voltage	5000 V	—
Maximum grid No. 2 voltage	600 V	—
Maximum negative grid No. 1 bias magnitude	180 V	—
Peak heater-cathode voltage during warm-up	450 V	—
Peak heater-cathode voltage after warm-up	180 V	—
Typical anode voltage low-voltage condition	10000 V	—
Typical anode voltage high-voltage condition	20000 V	—
Typical focus voltage range at 10 kV	2070–2370 V	—
Typical focus voltage range at 20 kV	4140–4740 V	—
Typical grid No. 2 voltage	300 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 cutoff voltage range	~~-65~~ -40 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical line width	0.0015 in	—

CIRCUITVALUE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 circuit resistance maximum	1.5 MOhm	—

TUBE TINKER

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

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