



ELECTRONIC TUBE REFERENCE

21CYP22

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Twenty-one-inch color television picture tube with three electron guns, magnetic deflection and convergence, electrostatic focusing, and a P22 phosphor-dot screen. Published high-voltage anode capability reaches about 27.5 kV.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.6 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray

MAXIMUM PLATE VOLTAGE	27500 V
-----------------------	---------

Published Sylvania color-CRT ratings, capacitances, convergence and operating-design values extracted from supplied source.

Sylvania 21CYP22 21-inch color television CRT with three electron guns, magnetic deflection/convergence, electrostatic focus, and P22 phosphor-dot screen. Published maximum ratings, interelectrode capacitances, convergence information, and equipment design ranges were extracted.

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	1.6 A	—
FocusingMethod	Electrostatic	—
DeflectionMethod	Magnetic	—
ConvergenceMethod	Magnetic	—
ElectronGunCount	3	—
Phosphor	Aluminized P22 blue-green-red phosphor-dot	—
Grid1of0neGunToAll0therElectrodes	10 pF	—
CombinedCathodesToAll0therElectrodes	16 pF	—
CommonFocusingGridsToAll0therElectrodes	23 pF	—
PhosphorDotArrangement	Triangular dot trios	—
DisplayType	Three-color phosphor-dot shadow-mask	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AnodeVoltageMaximum	27500 V	—
FocusingGridVoltageMaximum	6000 V	—
Grid2VoltageMaximum	1000 V	—
Grid1NegativeBiasMagnitudeMaximum	440 V	—
Grid1PositivePeakVoltageMaximum	2 V	—
HeaterCathodeVoltageMaximum	450 V	Warmup<=15s;HeaterNegative
HeaterCathodeVoltageMaximum	200 V	AfterWarmup
HeaterCathodeVoltageMaximum	200 V	HeaterPositive

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Voltage	25000 V	EquipmentDesignRangeReference

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker