



ELECTRONIC TUBE REFERENCE

3MP

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 specified screen designation identifies the phosphor variant within this compact oscillographic family.

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

SECTION 1 Cathode Ray	
MAXIMUM PLATE VOLTAGE	2750 V
Published CRT maximum ratings, capacitances, and operating conditions extracted from supplied Sylvania datasheet.	

Sylvania 3MP direct-view oscilloscope CRT with electrostatic focus/deflection; P1 green, medium persistence. Published maximum ratings, capacitances, and typical operating conditions were extracted from the supplied datasheet.

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	600 mA	—
FocusingMethod	Electrostatic	—
DeflectionMethod	Electrostatic	—
Phosphor	P1 green, medium persistence	—
MinimumUsefulScreen	2.75 in	—
Cathode To All Capacitance	2.2 pF	—
GridToAllCapacitance	10.3 pF	—
BetweenDeflectionPlates1_2Capacitance	1.3 pF	—
BetweenDeflectionPlates3_4Capacitance	1.2 pF	—
RecommendedAnode2VoltageMinimum	1000 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode2VoltageMaximum	2750 V	—
Anode1FocusVoltageMaximum	1100 V	—
GridNegativeBiasMagnitudeMaximum	200 V	—
GridPositivePeakVoltageMaximum	2 V	—
PeakHeaterCathodeVoltageNegative	140 V	—
PeakVoltageAnode2ToDeflectionPlate	550 V	—
Anode2Voltage	2000 V	—
Anode1VoltageForFocus	400-700 V	—
GridVoltageForCutoff	0 to -126 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DeflectionFactorPlates1_2	230-290 V/in	—
DeflectionFactorPlates3_4	220-280 V/in	—
GridCircuitResistanceMaximum	1.5 Mohm	—
DeflectionCircuitResistanceMaximum	5 Mohm	—

TUBE TINKER

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

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