

ELECTRONIC TUBE REFERENCE

24AOP4

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Large P4 monochrome television picture tube in the 24-inch class, designed for high-voltage direct-view service with manufacturer-specified focusing, magnetic deflection, and beam-control characteristics for type 24AOP4.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray	
MAXIMUM SCREEN VOLTAGE	300 V
CRT electron-gun/display section. MaxPlateVoltage stores published maximum anode voltage; MaxScreenVoltage stores published maximum Grid No. 2 voltage where available.	

Twenty-four-inch lightweight 110-degree television CRT with electrostatic focus, magnetic deflection, gray-filter faceplate, aluminized P4 screen, and 450 mA heater.

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
Maximum Grid No. 2 voltage	300 V	Published maximum Grid No. 2 voltage
Anodevoltage	22000 V	Anodevoltage 22,000Volts dc
Grid No. 4 Voltage (Focusing Electrode) . -550 to +	1100 V	Grid No. 4 Voltage (Focusing Electrode) . -550 to +1100 Volts dc
GridNo. 2Voltage	550 V	GridNo. 2Voltage . 550 Volts dc
During Warm-up Period Not to Exceed	15 s	During Warm-up Period Not to Exceed 15 Seconds 450 Volts SEPTEMBER, 1958
After Equipment warm-up period	200 V	After Equipment warm-up period. . 200 Volts PAGE 1 OF 3
Heater positive with Respect to cathode	200 V	Heater positive with Respect to cathode . . 200 Volts
Anode voltage	16000 V	Anode voltage 16,000 Volts
Grid No. 4 Voltage for Focus	400 V	Grid No. 4 Voltage for Focus 0 to +400 Volts
Grid No. 2 Voltage	300 V	Grid No. 2 Voltage 300 Volts
Grid No. 1` Voltage Required for Cutoff3 . -35 to	-72 V	Grid No. 1` Voltage Required for Cutoff3 . -35 to -72 Volts

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	450 mA	Published heater current
Faceplate . Gray Filter Glass	6.3 V	Faceplate . Gray Filter Glass 6.3 Volt, 450 Ma. Heater
Heater Voltage	6.3 V	Heater Voltage 6.3 Volts
Heater warm~up Timel	11 s	Heater warm~up Timel . 11 Seconds

CIRCUITVALUE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No. 1 Circuit Resistance	1.5 Mohm	Grid No. 1 Circuit Resistance 1.5 Megohms Max.

TUBE TINKER

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