

ELECTRONIC TUBE REFERENCE

# 24AEP4

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 24AEP4.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 12L               | BASE PINS            | 6             |
| NOMINAL HEATER      | 6.3 V / 10 A      | 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 |
| MAXIMUM SCREEN VOLTAGE                                                                                                                           | 550 V   |
| CRT-specific ratings, operating conditions, capacitances, focus/deflection, cutoff, optical, and screen data are retained in section parameters. |         |

Sylvania 24AEP4 is a direct-view television picture cathode-ray tube using magnetic deflection and electrostatic focusing. The supplied data publishes a 6.3 V heater, high-voltage anode and grid ratings, interelectrode capacitances, and X-ray precautions.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1950 Sylvania

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1950 SYLVANIA

## Section 1 · Cathode Ray

| CHARACTERISTIC |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Heater Voltage | 6.3 V           | —                |
| Heater Current | 600 mA          | —                |

| OTHER                 |                 |                  |
|-----------------------|-----------------|------------------|
| PARAMETER             | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum Anode Voltage | 22000 V         | —                |
| Grid2 Voltage         | 550 V           | —                |



## SOURCE OPERATING CONDITIONS

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# 1971 RCA HB3 Binder 1 of 7

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1971 RCA HB3 BINDER 1 OF 7

## Section 1 · Cathode Ray

| CHARACTERISTICS                                    |                 |                                                                                                                      |
|----------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------|
| PARAMETER                                          | PUBLISHED VALUE | CONDITION / NOTE                                                                                                     |
| LOW-VOLTAGE ELECTROSTATIC FOCUS                    | 90 mA           | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| Heater Current at 6.3 volts<br>– published value 1 | 6.3 V           | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
|                                                    |                 |                                                                                                                      |

| PARAMETER                                           | PUBLISHED VALUE | CONDITION / NOTE                                                                                                     |
|-----------------------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------|
| Heater Current at 6.3 volts<br>– published value 2  | <b>600 V</b>    | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| Heater Current at 6.3 volts<br>– published value 3  | <b>10 V</b>     | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| Grid No.1 to all other electrodes                   | <b>6</b>        | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| Light transmission (Approx )                        | <b>75</b>       | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| Projected Area of Screen                            | <b>332</b>      | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| Grid-No.4 Voltage for focus<br>– published value 1  | <b>-50 V</b>    | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| Grid-No.4 Voltage for focus<br>– published value 2  | <b>350 V</b>    | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| extinction of focused raster<br>– published value 1 | <b>-28 V</b>    | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| extinction of focused raster<br>– published value 2 | <b>-72 V</b>    | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |

| OTHER                                |                 |                                                                                                                      |
|--------------------------------------|-----------------|----------------------------------------------------------------------------------------------------------------------|
| PARAMETER                            | PUBLISHED VALUE | CONDITION / NOTE                                                                                                     |
| External conductive coating to ultor | <b>2500 mA</b>  | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| ULTOR VOLTAGE                        | <b>22000 V</b>  | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| GRID-No.2 VOLTAGE                    | <b>550 V</b>    | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |
| Grid-No.1-Circuit Resistance         | <b>1.5 mA</b>   | Published CRT datasheet value; multiple numbers on one source row represent separate limits or operating conditions. |