

ELECTRONIC TUBE REFERENCE

5ABP7

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
CATHODERAY

Five-inch direct-view oscilloscope CRT with electrostatic focusing and deflection, post-deflection acceleration, and a P7 screen providing persistent trace visibility for slower or transient displays.

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

|                                   |
|-----------------------------------|
| SECTION1 Cathode Ray              |
| No fixed ratings recorded.        |
| CRT electron-gun/display section. |

The Sylvania 5ABP7 is a 5-inch direct-view oscilloscope CRT with electrostatic focus and deflection, post-deflection acceleration, and a blue screen.

## 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

| CHARACTERISTICS                   |                    |                  |
|-----------------------------------|--------------------|------------------|
| PARAMETER                         | PUBLISHED VALUE    | CONDITION / NOTE |
| Heater Voltage                    | 6.3 V              | —                |
| Heater Current                    | 600 mA             | —                |
| Focusing Method                   | Electrostatic text | —                |
| Deflection Method                 | Electrostatic text | —                |
| Fluorescence                      | Blue text          | —                |
| Persistence                       | Long text          | —                |
| Cathode-to-All Capacitance        | 5 pF               | Nominal          |
| Grid1-to-All Capacitance          | 8 pF               | Nominal          |
| Deflection Plates 1-2 Capacitance | 2.5 pF             | Nominal          |
| Deflection Plates 3-4 Capacitance | 4.3 pF             | Nominal          |
| Phosphorescence                   | Yellow text        | —                |

| OTHER                                      |                 |                  |
|--------------------------------------------|-----------------|------------------|
| PARAMETER                                  | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum Anode3 Voltage                     | 6600 V          | —                |
| Maximum Anode2 Voltage                     | 2860 V          | —                |
| Maximum Anode1 Voltage                     | 1100 V          | —                |
| Maximum Grid1 Negative Bias                | 220 V           | —                |
| Maximum Grid1 Positive Peak                | 2 V             | —                |
| Maximum Heater-Cathode Voltage             | 140 V           | EitherPolarity   |
| Maximum Anode2-to-Deflection-Plate Voltage | 550 V           | —                |

| PARAMETER                             | PUBLISHED VALUE | CONDITION / NOTE |
|---------------------------------------|-----------------|------------------|
| Typical Anode3 Voltage                | <b>3000 V</b>   | —                |
| Typical Anode2 Voltage                | <b>1500 V</b>   | —                |
| Focus Voltage Minimum                 | <b>300 V</b>    | Anode1           |
| Focus Voltage Maximum                 | <b>515 V</b>    | Anode1           |
| Grid1 Cutoff Voltage Minimum          | <b>-65 V</b>    | —                |
| Grid1 Cutoff Voltage Maximum          | <b>-39 V</b>    | —                |
| Deflection Factor Plates 1-2 Minimum  | <b>40 V/in</b>  | —                |
| Deflection Factor Plates 1-2 Maximum  | <b>54 V/in</b>  | —                |
| Deflection Factor Plates 3-4 Minimum  | <b>27 V/in</b>  | —                |
| Deflection Factor Plates 3-4 Maximum  | <b>36 V/in</b>  | —                |
| Maximum Grid1 Circuit Resistance      | <b>1.5 Mohm</b> | —                |
| Maximum Deflection Circuit Resistance | <b>5 Mohm</b>   | —                |

## TUBE TINKER

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

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