ELECTRONIC TUBE REFERENCE

# 5BRP25

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA
**1 SECTION**
CONSTRUCTION
**CATHODERAY**

Five-inch direct-view instrument CRT with electrostatic focusing, magnetic deflection, an aluminized P25 screen, and approximately 70-degree deflection. Its construction supports bright specialized monitoring and display applications.

## General characteristics

| | | | |
|---|---|---|---|
| **BASE DESIGNATION** | 9HT | **BASE PINS** | 9 |
| **NOMINAL HEATER** | 6.3 V / 300 mA | **PARALLEL HEATER** | — / — |
| **HEATING** | Indirect | **SERIES OPERATION** | Not specified |
| **CATHODE ARRANGEMENT** | Separate cathodes | **SECTION CONSTRUCTION** | Similar |

## Section ratings

**SECTION1** Cathode Ray

| | |
|---|---|
| **MAXIMUM PLATE VOLTAGE** | 10000 V |

*CRT highest published anode/accelerating voltage is promoted to MaxPlateVoltage; additional electrode, deflection, optical, and capacitance data are retained as parameters.*

Five-inch direct-view CRT with electrostatic focus, magnetic deflection, aluminized screen, and approximately 70-degree deflection.

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

### CAPACITANCE

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Cathode to all other electrodes capacitance | **3 pF** | — |
| Grid No. 1 to all other electrodes capacitance | **6.5 pF** | — |

### OTHER

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Maximum anode voltage | **10000 V** | — |
| Grid No. 4 focus voltage range | **-550–1100 V** | — |
| Maximum grid No. 2 voltage | **770 V** | — |
| Peak heater-cathode voltage, heater negative | **180 V** | — |
| Peak heater-cathode voltage, heater positive | **180 V** | — |
| Typical anode voltage | **8000 V** | — |
| Typical grid No. 4 focus voltage range | **-50–350 V** | — |
| Typical grid No. 2 voltage | **300 V** | — |
| Grid No. 1 cutoff voltage range | **-45–-15 V** | — |

### CHARACTERISTICS

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE |
|---|---|---|
| Typical line width | **0.014 in** | — |
| Maximum undeflected spot-position radius | **0.25 in** | — |

| CIRCUITVALUE | | |
|---|---|---|
| **PARAMETER** | **PUBLISHED VALUE** | **CONDITION / NOTE** |
| Grid No. 1 circuit resistance maximum | **1.5 MOhm** | — |

## Tube Tinker

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

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