

ELECTRONIC TUBE REFERENCE

5916

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA  
1 SECTION  
CONSTRUCTION  
PENTODE

Dual-control sharp-cutoff pentode for gated-amplifier and mixer service to approximately 400 MHz. Separate control grids provide switching and frequency-conversion functions, while its heater rating suits specialized aircraft and military electrical systems.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 8DC               | BASE PINS            | 8             |
| NOMINAL HEATER      | 26.5 V / 45 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

8DC - TERMINAL PINOUT

|           |         |                      |           |
|-----------|---------|----------------------|-----------|
| TERMINAL  | SECTION | ELEMENT              | STATUS    |
| PIN1 – G1 | A       | G1 – Control Grid    | CONNECTED |
| PIN2 – K  | A       | K – Cathode          | CONNECTED |
| PIN3 – H  | –       | H – Heater           | CONNECTED |
| PIN4 – G3 | A       | G3 – Suppressor Grid | CONNECTED |
| PIN5 – P  | A       | P – Plate (Anode)    | CONNECTED |
| PIN6 – H  | –       | H – Heater           | CONNECTED |
| PIN7 – G2 | A       | G2 – Screen Grid     | CONNECTED |
| PIN8 – K  | A       | K – Cathode          | CONNECTED |

SECTION RATINGS

|                                                                                                                                 |                 |
|---------------------------------------------------------------------------------------------------------------------------------|-----------------|
| <b>SECTION1</b> Pentode                                                                                                         |                 |
| <b>PLATE RESISTANCE</b>                                                                                                         | 110000 $\Omega$ |
| <b>TRANSCONDUCTANCE</b>                                                                                                         | 0.0032 S        |
| <b>MAXIMUM PLATE VOLTAGE</b>                                                                                                    | 165 V           |
| <b>MAXIMUM SCREEN VOLTAGE</b>                                                                                                   | 155 V           |
| <b>MAXIMUM PLATE DISSIPATION</b>                                                                                                | 1.1 W           |
| <i>Dual-control pentode; promoted values use the grid-3-tied-to-cathode condition; second condition retained as parameters.</i> |                 |

Sharp-cutoff dual-control pentode intended for gated-amplifier or mixer service at frequencies up to 400 megacycles.



## 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 · Pentode

| CHARACTERISTIC              |                 |                           |
|-----------------------------|-----------------|---------------------------|
| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE          |
| Grid No. 1 transconductance | 3200 $\mu$ S    | Published datasheet value |
| Grid No. 3 transconductance | 500 $\mu$ S     | Published datasheet value |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 195X General Electric Essential Characteristics

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

## 195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

## Section 1 · Pentode

| CHARACTERISTIC   |                 |                           |
|------------------|-----------------|---------------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE          |
| Plate Voltage    | 100 V           | ClassA;Grid3TiedToCathode |
| Screen Voltage   | 100 V           | ClassA;Grid3TiedToCathode |
| Cathode Resistor | 150 ohm         | ClassA;Grid3TiedToCathode |
| Plate Current    | 5.6 mA          | ClassA;Grid3TiedToCathode |
| Screen Current   | 4 mA            | ClassA;Grid3TiedToCathode |
| Plate Resistance | 110000 ohm      | ClassA;Grid3TiedToCathode |
| Transconductance | 3200 $\mu$ S    | ClassA;Grid3TiedToCathode |
| Plate Voltage    | 100 V           | ClassA;Grid3Minus1V       |
| Screen Voltage   | 100 V           | ClassA;Grid3Minus1V       |

| PARAMETER        | PUBLISHED VALUE  | CONDITION / NOTE    |
|------------------|------------------|---------------------|
| Grid3 Voltage    | <b>-1 V</b>      | ClassA;Grid3Minus1V |
| Cathode Resistor | <b>150 ohm</b>   | ClassA;Grid3Minus1V |
| Plate Current    | <b>4 mA</b>      | ClassA;Grid3Minus1V |
| Screen Current   | <b>5.8 mA</b>    | ClassA;Grid3Minus1V |
| Plate Resistance | <b>50000 ohm</b> | ClassA;Grid3Minus1V |
| Transconductance | <b>1950 uS</b>   | ClassA;Grid3Minus1V |

## TUBE TINKER

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

[Catalog](#)   [Tube types](#)   [Full books](#)   [Blog](#)   [Feedback & corrections](#)

© 2026 Tube Tinker