

ELECTRONIC TUBE REFERENCE

5693

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
PENTODE

Sharp-cutoff pentode designed for RF, VHF/UHF, wide-band, or voltage-amplifier service.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 8N                | BASE PINS            | 8             |
| NOMINAL HEATER      | 6.3 V / 300 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

8N - TERMINAL PINOUT

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

SECTION RATINGS

|                                                              |                  |
|--------------------------------------------------------------|------------------|
| SECTION1 Pentode                                             |                  |
| PLATE RESISTANCE                                             | 1000000 $\Omega$ |
| TRANSCONDUCTANCE                                             | 0.00165 S        |
| MAXIMUM PLATE VOLTAGE                                        | 300 V            |
| MAXIMUM SCREEN VOLTAGE                                       | 125 V            |
| MAXIMUM PLATE DISSIPATION                                    | 2 W              |
| MAXIMUM SCREEN DISSIPATION                                   | 0.3 W            |
| MAXIMUM CATHODE CURRENT                                      | 50 mA            |
| <i>Electrical section extracted from supplied datasheet.</i> |                  |

Premium pentode based on the 6SJ7 for critical industrial service.



## SOURCE OPERATING CONDITIONS

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# 1950 General Electric Transmitting Types

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

## 1950 GENERAL ELECTRIC TRANSMITTING TYPES

## Section 1 · Pentode

| CHARACTERISTIC          |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| HeaterOrFilamentVoltage | 6.3 V           | —                |
| HeaterOrFilamentCurrent | 300 mA          | —                |



## SOURCE OPERATING CONDITIONS

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# 195X General Electric Essential Characteristics

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

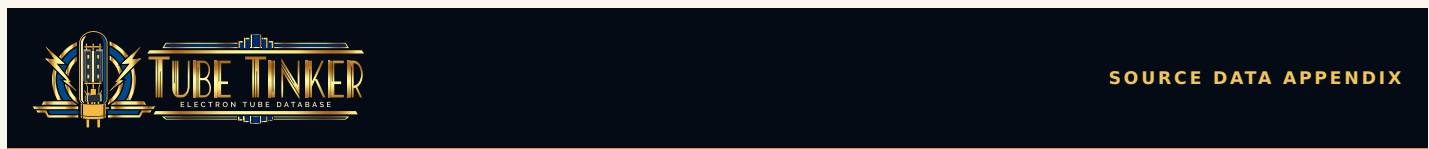
## 195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

## Section 1 · Pentode

| CAPACITANCE               |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Input capacitance         | 5.3 pF          | —                |
| Output capacitance        | 6.2 pF          | —                |
| Grid-to-plate capacitance | 0.005 pF        | —                |

| OTHER               |                 |                  |
|---------------------|-----------------|------------------|
| PARAMETER           | PUBLISHED VALUE | CONDITION / NOTE |
| Plate voltage       | 250 V           | ClassA           |
| Screen-grid voltage | 100 V           | ClassA           |
|                     |                 |                  |

| PARAMETER           | PUBLISHED VALUE | CONDITION / NOTE |
|---------------------|-----------------|------------------|
| Grid voltage        | -3 V            | ClassA           |
| Plate current       | 3 mA            | ClassA           |
| Screen-grid current | 0.85 mA         | ClassA           |



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# 1960 RCA Industrial and Communications Types

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

#### 1960 RCA INDUSTRIAL AND COMMUNICATIONS TYPES

### Section 1 · Pentode

| CROSSREFERENCE                |                 |                  |
|-------------------------------|-----------------|------------------|
| PARAMETER                     | PUBLISHED VALUE | CONDITION / NOTE |
| Prototype / equivalent family | 6SJ7            | —                |



#### SOURCE OPERATING CONDITIONS

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# 1971 RCA HB3 Binder 3 of 7

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

#### 1971 RCA HB3 BINDER 3 OF 7

### Section 1 · Pentode

| OTHER                      |                 |                  |
|----------------------------|-----------------|------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum plate voltage      | —300 V          | —                |
| Maximum screen voltage     | —125 V          | —                |
| Maximum plate dissipation  | —2 W            | —                |
| Maximum screen dissipation | —0.3 W          | —                |
| Maximum cathode current    | —50 mA          | —                |

| CHARACTERISTICS   |                    |                  |
|-------------------|--------------------|------------------|
| PARAMETER         | PUBLISHED VALUE    | CONDITION / NOTE |
| Plate resistance  | 1000000 $\Omega$   | —                |
| Transconductance  | 1650 $\mu\text{S}$ | —                |
| Plate voltage     | 250 V              | —                |
| Grid No.2 voltage | 100 V              | —                |
| Grid No.1 voltage | -3 V               | —                |
| Plate current     | 3 mA               | —                |
| Grid No.2 current | 0.85 mA            | —                |

| CAPACITANCE   |                 |                  |
|---------------|-----------------|------------------|
| PARAMETER     | PUBLISHED VALUE | CONDITION / NOTE |
| Grid to Plate | 0.005 pF        | —                |
| Input         | 4.8–5.8 pF      | —                |
| Output        | 5.6–6.8 pF      | —                |

## TUBE TINKER

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and their source documents.

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