

ELECTRONIC TUBE REFERENCE

6JA8

Voltage - Triode Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TETRODE-TRIODE

High-mu triode and multi-grid section for television synchronization functions and video amplification.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 9DX               | BASE PINS            | 9             |
| NOMINAL HEATER      | 6.3 V / 750 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Dissimilar    |

9DX - TERMINAL PINOUT

| TERMINAL   | SECTION | ELEMENT              | STATUS    |
|------------|---------|----------------------|-----------|
| PIN1 – 2K  | B       | K – Cathode          | CONNECTED |
| PIN2 – 2G1 | B       | G1 – Control Grid    | CONNECTED |
| PIN3 – 2P  | B       | P – Plate (Anode)    | CONNECTED |
| PIN4 – H   | –       | H – Heater           | CONNECTED |
| PIN5 – H   | –       | H – Heater           | CONNECTED |
| PIN6 – 1G3 | A       | G3 – Suppressor Grid | CONNECTED |
| PIN6 – IS  | A       | IS – Internal Screen | CONNECTED |
| PIN6 – 1K  | A       | K – Cathode          | CONNECTED |
| PIN7 – 1G1 | A       | G1 – Control Grid    | CONNECTED |
| PIN8 – 1G2 | A       | G2 – Screen Grid     | CONNECTED |
| PIN9 – 1P  | A       | P – Plate (Anode)    | CONNECTED |

SECTION RATINGS

| SECTION1 Triode                |                |
|--------------------------------|----------------|
| PLATE RESISTANCE               | 17000 $\Omega$ |
| TRANSCONDUCTANCE               | 0.004 S        |
| AMPLIFICATION FACTOR           | 70             |
| MAXIMUM PLATE VOLTAGE          | 300 V          |
| MAXIMUM PLATE DISSIPATION      | 1 W            |
| <i>High-mu triode section.</i> |                |

| SECTION2 Tetrode                        |                |
|-----------------------------------------|----------------|
| PLATE RESISTANCE                        | 70000 $\Omega$ |
| TRANSCONDUCTANCE                        | 0.014 S        |
| MAXIMUM PLATE VOLTAGE                   | 300 V          |
| MAXIMUM SCREEN VOLTAGE                  | 330 V          |
| MAXIMUM PLATE DISSIPATION               | 5 W            |
| MAXIMUM SCREEN DISSIPATION              | 1.5 W          |
| <i>Video-amplifier tetrode section.</i> |                |

The 6JA8 combines a high-mu triode for sync separation, clipping and phase inversion with a pentode designed for television video-amplifier service.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1961 Tung Sol

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

1961 TUNG SOL

## Section 1 · Triode

| OTHER         |                 |                          |
|---------------|-----------------|--------------------------|
| PARAMETER     | PUBLISHED VALUE | CONDITION / NOTE         |
| Plate Voltage | 200 V           | Triode typical operation |

| CHARACTERISTIC |                 |                          |
|----------------|-----------------|--------------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE         |
| Plate Current  | 3.5 mA          | Triode typical operation |

1961 TUNG SOL

## Section 2 · Tetrode

| OTHER          |                 |                           |
|----------------|-----------------|---------------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE          |
| Plate Voltage  | 200 V           | Pentode typical operation |
| Screen Voltage | 135 V           | Pentode typical operation |

| CHARACTERISTIC |                 |                           |
|----------------|-----------------|---------------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE          |
| Plate Current  | 18 mA           | Pentode typical operation |
| Screen Current | 4 mA            | Pentode typical operation |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

## Section 1 · Triode

| CHARACTERISTICS      |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Heater Voltage       | 6.3 V           | —                |
| Heater Current       | 750 mA          | —                |
| Amplification Factor | 70 ratio        | —                |
| Plate Resistance     | 17000 ohm       | —                |
| Transconductance     | 4000 uS         | —                |

| OTHER                 |                 |                  |
|-----------------------|-----------------|------------------|
| PARAMETER             | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum Plate Voltage | 300 V           | —                |
| Plate Voltage         | 200 V           | —                |
| Grid Voltage          | -2 V            | —                |

1965 WESTINGHOUSE DATA BOOK

## Section 2 · Tetrode

| OTHER                         |                 |                  |
|-------------------------------|-----------------|------------------|
| PARAMETER                     | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum Plate Voltage         | 330 V           | —                |
| Maximum Plate Dissipation     | 5 W             | —                |
| Maximum Screen Supply Voltage | 330 V           | —                |
| Maximum Screen Dissipation    | 1.5 W           | —                |

| CHARACTERISTICS        |                 |                  |
|------------------------|-----------------|------------------|
| PARAMETER              | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-Plate Capacitance | 0.1 pF          | —                |
| Input Capacitance      | 11 pF           | —                |
| Output Capacitance     | 4.8 pF          | —                |



SOURCE DATA APPENDIX

# 1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

| CHARACTERISTIC |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Plate voltage  | 200 V           | TriodeSection    |
| Grid voltage   | -2 V            | TriodeSection    |
| Plate current  | 3.5 mA          | TriodeSection    |

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Tetrode

| CHARACTERISTIC |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Plate voltage  | 200 V           | PentodeSection   |
| Grid 2 voltage | 135 V           | PentodeSection   |
| Grid 1 voltage | -1.5 V          | PentodeSection   |
| Plate current  | 18 mA           | PentodeSection   |
| Grid 2 current | 4 mA            | PentodeSection   |

## TUBE TINKER

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