

ELECTRONIC TUBE REFERENCE

6AU7

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Medium-mu twin triode with series/parallel heater operation, intended for general Class-A voltage amplification and related signal-processing applications.

GENERAL CHARACTERISTICS

|                     |                   |                      |                |
|---------------------|-------------------|----------------------|----------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 9              |
| NOMINAL HEATER      | 12.6 V / 300 mA   | PARALLEL HEATER      | 6.3 V / 600 mA |
| HEATING             | Indirect          | SERIES OPERATION     | Capable        |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar        |

SECTION RATINGS

|                                                                                                                          |          |
|--------------------------------------------------------------------------------------------------------------------------|----------|
| SECTION1 Triode                                                                                                          |          |
| PLATE RESISTANCE                                                                                                         | 6500 Ω   |
| TRANSCONDUCTANCE                                                                                                         | 0.0031 S |
| AMPLIFICATION FACTOR                                                                                                     | 20       |
| MAXIMUM PLATE VOLTAGE                                                                                                    | 300 V    |
| MAXIMUM PLATE DISSIPATION                                                                                                | 2.5 W    |
| MAXIMUM CATHODE CURRENT                                                                                                  | 20 mA    |
| Published section maximum ratings and core characteristics promoted; additional operating points retained as parameters. |          |

|                                                                                    |               |
|------------------------------------------------------------------------------------|---------------|
| SECTION2 Triode                                                                    |               |
| PLATE RESISTANCE                                                                   | 6500 $\Omega$ |
| TRANSCONDUCTANCE                                                                   | 0.0031 S      |
| AMPLIFICATION FACTOR                                                               | 20            |
| MAXIMUM PLATE VOLTAGE                                                              | 300 V         |
| MAXIMUM PLATE DISSIPATION                                                          | 2.5 W         |
| MAXIMUM CATHODE CURRENT                                                            | 20 mA         |
| <i>Physical triode restored under current one-row-per-physical-section policy.</i> |               |

6AU7 is described in the supplied Tung-Sol datasheet as a medium-mu twin triode with series/parallel heater. Published maximum ratings and core section characteristics were extracted into the technical tables.



## 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 |
| Heater voltage | 6.3 V           | —                |
| Heater current | 300 mA          | —                |
| Plate voltage  | 150 V           | ClassA           |
| Plate current  | 10 mA           | ClassA           |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1966 Tung Sol Electronic Tubes 1 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 1 OF 4

## Section 1 · Triode

| CHARACTERISTIC             |                 |                  |
|----------------------------|-----------------|------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE |
| Heater voltage             | 6.3 V           | Published table  |
| Heater current             | 600 mA          | Published table  |
| Series heater voltage      | 12.6 V          | Published table  |
| Series heater current      | 300 mA          | Published table  |
| Plate resistance           | 6500 ohm        | EachSection      |
| Transconductance           | 3100 $\mu$ S    | EachSection      |
| Amplification factor       | 20              | EachSection      |
| Alternate plate resistance | 7700 ohm        | EachSection      |

| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE |
|--------------------------------|-----------------|------------------|
| Alternate amplification factor | 17              | EachSection      |

| OTHER                   |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| Plate voltage           | 200 V           | EachSection      |
| Plate current           | 11.8 mA         | EachSection      |
| Alternate plate voltage | 250 V           | EachSection      |