

ELECTRONIC TUBE REFERENCE

6EY6

Power - TV Vertical Output electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Beam-power pentode intended for television vertical-deflection amplification, with substantial pulse-voltage and cathode-current capability for scanning service.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 7AC               | BASE PINS            | 6             |
| NOMINAL HEATER      | 6.3 V / 680 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

7AC - TERMINAL PINOUT

| TERMINAL     | SECTION | ELEMENT                 | STATUS               |
|--------------|---------|-------------------------|----------------------|
| PIN1 – Pin 1 | –       | –                       | NC · verified        |
| PIN2 – Pin 2 | –       | H – Heater              | CONNECTED · verified |
| PIN3 – Pin 3 | A       | P – Plate (Anode)       | CONNECTED · verified |
| PIN4 – Pin 4 | A       | G2 – Screen Grid        | CONNECTED · verified |
| PIN5 – Pin 5 | A       | G1 – Control Grid       | CONNECTED · verified |
| PIN7 – Pin 7 | –       | H – Heater              | CONNECTED · verified |
| PIN8 – Pin 8 | A       | BP – Beam-Forming Plate | CONNECTED · verified |
| PIN8 – Pin 8 | A       | K – Cathode             | CONNECTED · verified |

# SECTION RATINGS

|                                                                                                                          |          |
|--------------------------------------------------------------------------------------------------------------------------|----------|
| SECTION1 Beam Power                                                                                                      |          |
| PLATE RESISTANCE                                                                                                         | 60000 Ω  |
| TRANSCONDUCTANCE                                                                                                         | 0.0044 S |
| MAXIMUM PLATE VOLTAGE                                                                                                    | 550 V    |
| MAXIMUM SCREEN VOLTAGE                                                                                                   | 250 V    |
| MAXIMUM PLATE DISSIPATION                                                                                                | 10 W     |
| MAXIMUM SCREEN DISSIPATION                                                                                               | 1.5 W    |
| MAXIMUM CATHODE CURRENT                                                                                                  | 65 mA    |
| MAXIMUM HEATER-CATHODE VOLTAGE                                                                                           | 200 V    |
| WARM-UP TIME                                                                                                             | 11 s     |
| Source sheet states electrical identity to 7EY6 except heater ratings; no 7EY6 values are inferred into promoted fields. |          |

The 6EY6 is a beam-power pentode intended for television vertical-deflection amplifier operation, with substantial pulse-voltage and cathode-current capability.



## 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 · Beam Power

| CHARACTERISTIC     |                 |                  |
|--------------------|-----------------|------------------|
| PARAMETER          | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Resistance   | 60000 ohm       | Typical          |
| Transconductance   | 4400 uS         | Typical          |
| Heater Warmup Time | 11 s            | —                |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 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 · Beam Power

| OTHER                        |                 |                  |
|------------------------------|-----------------|------------------|
| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum_DC_plate_voltage     | 350 V           | —                |
| Maximum_peak_cathode_current | 180 mA          | —                |
| Heater_warmup_time           | 11 s            | —                |
| Plate_voltage                | 250 V           | ClassA           |
| Screen_voltage               | 250 V           | ClassA           |
| Grid_1_voltage               | -17.5 V         | ClassA           |

| CHARACTERISTIC |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Plate_current  | 44 mA           | ClassA           |

| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
|----------------|-----------------|------------------|
| Screen_current | 3 mA            | ClassA           |

| CAPACITANCE                 |                 |                  |
|-----------------------------|-----------------|------------------|
| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-1-to-plate capacitance | 0.7 pF          | —                |
| Input capacitance           | 6.5 pF          | —                |
| Output capacitance          | 7 pF            | —                |

## 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