

ELECTRONIC TUBE REFERENCE

# 6CK4

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
TRIODE

Low-mu high-current power triode intended for electronic voltage-regulator series-pass service. Its low plate resistance and substantial cathode-current capability make it suited to controlling regulated DC supplies rather than conventional voltage amplification.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 8JB               | BASE PINS            | 8             |
| NOMINAL HEATER      | 6.3 V / 1.25 A    | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## 8JB - TERMINAL PINOUT

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

## SECTION RATINGS

| SECTION1 Triode                                                        |               |
|------------------------------------------------------------------------|---------------|
| PLATE RESISTANCE                                                       | 1200 $\Omega$ |
| TRANSCONDUCTANCE                                                       | 0.0055 S      |
| AMPLIFICATION FACTOR                                                   | 6.6           |
| MAXIMUM PLATE VOLTAGE                                                  | 2000 V        |
| MAXIMUM PLATE DISSIPATION                                              | 12 W          |
| MAXIMUM CATHODE CURRENT                                                | 350 mA        |
| MAXIMUM HEATER-CATHODE VOLTAGE                                         | 200 V         |
| <i>Vertical-deflection service; 2000 V positive pulse plate rating</i> |               |

Low- $\mu$  triode for television vertical-deflection amplifier service with high zero-bias plate current.

## 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   |
| Peak Positive Pulse Plate Voltage | 2000 V          | VerticalDeflection |
| Peak Cathode Current              | 350 mA          | —                  |

## SOURCE OPERATING CONDITIONS

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# 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

| CAPACITANCE               |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-to-plate capacitance | 6.5 pF          | —                |
| Input capacitance         | 8 pF            | —                |
| Output capacitance        | 1.8 pF          | —                |

| OTHER                             |                 |                    |
|-----------------------------------|-----------------|--------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE   |
| Peak positive pulse plate voltage | 2000 V          | VerticalDeflection |
| Peak negative pulse grid voltage  | -250 V          | VerticalDeflection |
| Peak cathode current              | 350 mA          | VerticalDeflection |

| PARAMETER     | PUBLISHED VALUE | CONDITION / NOTE |
|---------------|-----------------|------------------|
| Plate voltage | 250 V           | ClassA           |
| Grid voltage  | -28 V           | ClassA           |
| Plate current | 40 mA           | ClassA           |

| CHARACTERISTIC          |                 |                                        |
|-------------------------|-----------------|----------------------------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE                       |
| Zero-bias plate current | 125 mA          | E <sub>b</sub> =100V;E <sub>c</sub> =0 |


SOURCE DATA APPENDIX

#### SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

## 1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

### Section 1 · Triode

| OTHER                             |                 |                    |
|-----------------------------------|-----------------|--------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE   |
| Peak Positive Pulse Plate Voltage | 2000 V          | VerticalDeflection |
| Peak Cathode Current              | 350 mA          | VerticalDeflection |


SOURCE DATA APPENDIX

#### SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

## 1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7

### Section 1 · Triode

| CAPACITANCE                |                 |                  |
|----------------------------|-----------------|------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE |
| Grid to plate              | 6.5 pF          | —                |
| Grid to cathode and heater | 8 pF            | —                |

| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE |
|-----------------------------|-----------------|------------------|
| Plate to cathode and heater | 1.8 pF          | —                |

| CHARACTERISTICS                |                    |                               |
|--------------------------------|--------------------|-------------------------------|
| PARAMETER                      | PUBLISHED VALUE    | CONDITION / NOTE              |
| Plate Voltage                  | 100 V              | Published table column 1 of 2 |
| Plate Voltage                  | 250 V              | Published table column 2 of 2 |
| Grid Voltage                   | 0 V                | Published table column 1 of 2 |
| Grid Voltage                   | -28 V              | Published table column 2 of 2 |
| Plate Resistance (Approx )     | 1200 $\Omega$      | —                             |
| Transconductance               | 5500 $\mu\text{S}$ | —                             |
| Plate Current                  | 125 mA             | Published table column 1 of 2 |
| Plate Current                  | 40 mA              | Published table column 2 of 2 |
| Plate Current for grid volts = | -36 V              | Published table column 1 of 2 |
| Plate Current for grid volts = | 10 V               | Published table column 2 of 2 |
| ma. =                          | 0.5 V              | Published table column 1 of 2 |
| ma. =                          | -50 V              | Published table column 2 of 2 |

| OTHER                            |                 |                  |
|----------------------------------|-----------------|------------------|
| PARAMETER                        | PUBLISHED VALUE | CONDITION / NOTE |
| The do component must not exceed | 100 V           | —                |

## TUBE TINKER

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