



## ELECTRONIC TUBE REFERENCE

## 6A4LA

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**  
CONSTRUCTION  
**PENTODE**

Directly heated power pentode for Class A and push-pull Class AB audio-output service.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | 5                 | BASE PINS            | 5             |
| NOMINAL HEATER      | 6.3 V / 300 mA    | PARALLEL HEATER      | – / –         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                         |                |
|-------------------------------------------------------------------------------------------------------------------------|----------------|
| <b>SECTION 1</b> Pentode                                                                                                |                |
| PLATE RESISTANCE                                                                                                        | 45500 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                        | 0.0022 S       |
| AMPLIFICATION FACTOR                                                                                                    | 100            |
| MAXIMUM PLATE VOLTAGE                                                                                                   | 180 V          |
| MAXIMUM SCREEN VOLTAGE                                                                                                  | 180 V          |
| <i>Published promoted fields populated from the datasheet; identical repeated sections compressed where applicable.</i> |                |

Directly heated pentode power amplifier for Class-A and push-pull Class-AB output service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1937 Raytheon Radio Receiving Tubes

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

## 1937 RAYTHEON RADIO RECEIVING TUBES

## Section 1 · Pentode

| OTHER                           |                 |                                    |
|---------------------------------|-----------------|------------------------------------|
| PARAMETER                       | PUBLISHED VALUE | CONDITION / NOTE                   |
| Plate voltage                   | 100 V           | ClassA                             |
| Screen voltage                  | 100 V           | ClassA                             |
| Control-grid voltage            | -6.5 V          | ClassA                             |
| Plate current                   | 9 mA            | ClassA                             |
| Screen current                  | 1.6 mA          | ClassA                             |
| Load resistance                 | 11000 $\Omega$  | ClassA                             |
| Power output                    | 0.31 W          | ClassA                             |
| Plate voltage                   | 180 V           | ClassA                             |
| Screen voltage                  | 180 V           | ClassA                             |
| Control-grid voltage            | -12 V           | ClassA                             |
| Plate current                   | 22 mA           | ClassA                             |
| Screen current                  | 3.9 mA          | ClassA                             |
| Load resistance                 | 8000 $\Omega$   | ClassA                             |
| Power output                    | 1.4 W           | ClassA                             |
| Plate and screen supply voltage | 230 V           | ClassAB;PushPull;TwoTubes;SelfBias |
| Load resistance plate-to-plate  | 16000 $\Omega$  | ClassAB;PushPull;TwoTubes;SelfBias |
| Power output                    | 4.2 W           | ClassAB;PushPull;TwoTubes;SelfBias |

| CHARACTERISTIC   |                    |                  |
|------------------|--------------------|------------------|
| PARAMETER        | PUBLISHED VALUE    | CONDITION / NOTE |
| Plate resistance | 83250 $\Omega$     | 100V             |
| Transconductance | 1200 $\mu\text{S}$ | 100V             |

| PARAMETER        | PUBLISHED VALUE    | CONDITION / NOTE |
|------------------|--------------------|------------------|
| Plate resistance | 45500 $\Omega$     | 180V             |
| Transconductance | 2200 $\mu\text{S}$ | 180V             |



SOURCE DATA APPENDIX

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 · Pentode

| OTHER                     |                 |                           |
|---------------------------|-----------------|---------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE          |
| Power Output              | 1.4 W           | ClassA1;PlateVoltage=180V |
| Total Harmonic Distortion | 9 %             | ClassA1                   |

TUBE TINKER

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