



## ELECTRONIC TUBE REFERENCE

## MPT4

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL  
DATA

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

Osram power pentode for conventional audio-frequency amplification and output service.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 5             |
| NOMINAL HEATER      | 4 V / 1 A         | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                              |                |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| SECTION1 Pentode                                                                                                                             |                |
| PLATE RESISTANCE                                                                                                                             | 33000 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                                             | 0.003 S        |
| AMPLIFICATION FACTOR                                                                                                                         | 100            |
| MAXIMUM PLATE VOLTAGE                                                                                                                        | 250 V          |
| MAXIMUM SCREEN VOLTAGE                                                                                                                       | 200 V          |
| MAXIMUM PLATE DISSIPATION                                                                                                                    | 8 W            |
| <i>Published characteristics/ratings were promoted when unambiguous; remaining operating values are preserved in TUBE_SECTION_PARAMETER.</i> |                |

OSRAM MPT4 pentode for amplification or power-output service as specified in the supplied datasheet.



## SOURCE OPERATING CONDITIONS

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# 192X Marconi Valve

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

## 192X MARCONI VALVE

## Section 1 · Pentode

| OTHER          |                 |                                              |
|----------------|-----------------|----------------------------------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE                             |
| Anode current  | 32 mA           | Anode 250 V; screen 200 V; grid bias -10.5 V |
| Screen current | 5.5 mA          | Anode 250 V; screen 200 V; grid bias -10.5 V |



## SOURCE OPERATING CONDITIONS

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# 1937 Osram Valves

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

## 1937 OSRAM VALVES

## Section 1 · Pentode

| OTHER                   |                 |                          |
|-------------------------|-----------------|--------------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE         |
| Optimum load resistance | 8000 ohm        | Published operating data |



## SOURCE OPERATING CONDITIONS

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# 193X Osram

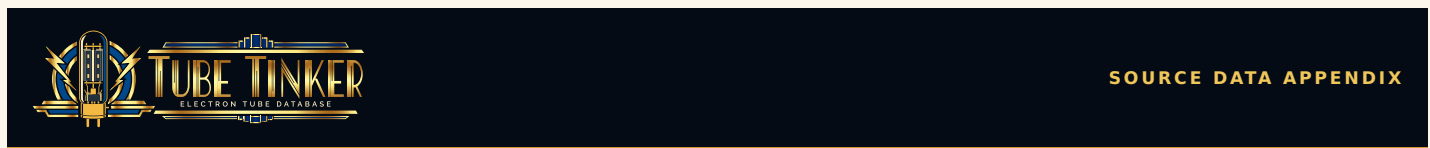
Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 193X OSRAM

## Section 1 · Pentode

| OTHER                     |                 |                           |
|---------------------------|-----------------|---------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE          |
| Heater/Filament Voltage   | 4 V             | Published datasheet value |
| Heater/Filament Current   | 1 A             | Published datasheet value |
| Maximum Anode Voltage     | 250 V           | Published datasheet value |
| Maximum Screen Voltage    | 200 V           | Published datasheet value |
| Maximum Anode Dissipation | 8 W             | Published datasheet value |

| CHARACTERISTICS      |                 |                           |
|----------------------|-----------------|---------------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE          |
| Plate Resistance     | 33000 ohm       | Published datasheet value |
| Mutual Conductance   | 3000 $\mu$ S    | Published datasheet value |
| Amplification Factor | 100             | Published datasheet value |



### SOURCE OPERATING CONDITIONS

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# 1955 Marconi

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

### 1955 MARCONI

## Section 1 · Pentode

| OTHER                     |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Filament/heater voltage   | 4 V             | —                |
| Filament/heater current   | 1 A             | —                |
| Maximum anode voltage     | 250 V           | —                |
| Maximum screen voltage    | 200 V           | —                |
| Maximum anode dissipation | 8 W             | —                |
| Typical output power      | 3.2 W           | ClassA           |

| CHARACTERISTIC       |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Amplification factor | 600             | —                |

| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
|------------------|-----------------|------------------|
| Transconductance | 3000 $\mu$ S    | —                |

## TUBE TINKER

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