



## ELECTRONIC TUBE REFERENCE

4695

Voltage - Pentode High Frequency (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Acorn pentode developed for high-frequency voltage amplification, combining compact low-capacitance construction with high plate resistance.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | WITHOUTBASE-MV    | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 150 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                                                                           |                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| SECTION 1 Pentode                                                                                                                                                                         |                 |
| PLATE RESISTANCE                                                                                                                                                                          | 800000 $\Omega$ |
| TRANSCONDUCTANCE                                                                                                                                                                          | 0.0018 S        |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                                     | 250 V           |
| MAXIMUM SCREEN VOLTAGE                                                                                                                                                                    | 125 V           |
| MAXIMUM PLATE DISSIPATION                                                                                                                                                                 | 1.5 W           |
| MAXIMUM SCREEN DISSIPATION                                                                                                                                                                | 0.5 W           |
| MAXIMUM CATHODE CURRENT                                                                                                                                                                   | 10 mA           |
| <i>Promoted only from clearly identified published characteristics/limits; additional operating, capacitance, regulator, gas-tube, and push-pull data retained as section parameters.</i> |                 |

Acorn pentode for high-frequency amplifier service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1938 Philips Miniwatt Vacuum Tube Catalog

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

## 1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

## Section 1 · Pentode

| OTHER                   |                 |                                   |
|-------------------------|-----------------|-----------------------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE                  |
| Plate current           | 5.5 mA          | UHF Amplifier; Control Grid = -3V |
| Control-grid voltage    | -3 V            | UHF Amplifier                     |
| Screen voltage          | 100 V           | UHF Amplifier                     |
| Suppressor-grid voltage | 0 V             | UHF Amplifier                     |
| Screen current          | 1.8 mA          | UHF Amplifier                     |
| Control-grid voltage    | -45 V           | Deep Cutoff                       |

| CHARACTERISTIC           |                   |                    |
|--------------------------|-------------------|--------------------|
| PARAMETER                | PUBLISHED VALUE   | CONDITION / NOTE   |
| Plate resistance         | 800000 $\Omega$   | Control Grid = -3V |
| Transconductance         | 1800 $\mu S$      | Control Grid = -3V |
| Amplification factor     | 1440              | Control Grid = -3V |
| Plate resistance minimum | 10000000 $\Omega$ | Deep Cutoff        |

| CAPACITANCE                  |                 |                  |
|------------------------------|-----------------|------------------|
| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-to-plate capacitance    | 0.007 pF        | Less Than        |
| Plate-to-cathode capacitance | 3.5 pF          | Section 1        |
| Grid-to-cathode capacitance  | 2.7 pF          | Section 1        |

# 1963 Mullard

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

1963 MULLARD

Section 1 · Pentode

| OTHER                             |                 |                  |
|-----------------------------------|-----------------|------------------|
| PARAMETER                         | PUBLISHED VALUE | CONDITION / NOTE |
| Plate voltage operating           | 250 V           | —                |
| Screen voltage operating          | 100 V           | —                |
| Control-grid voltage operating    | 0 V             | —                |
| Plate voltage maximum             | 250 V           | —                |
| Plate dissipation maximum         | 1.5 W           | —                |
| Screen voltage maximum            | 125 V           | —                |
| Screen dissipation maximum        | 0.5 W           | —                |
| Cathode current maximum           | 10 mA           | —                |
| Screen current maximum            | 2.3 mA          | —                |
| Grid circuit resistance maximum   | 3 Mohm          | —                |
| Heater-cathode voltage maximum    | 50 V            | —                |
| Heater-cathode resistance maximum | 20000 ohm       | —                |

| CHARACTERISTICS          |                 |                  |
|--------------------------|-----------------|------------------|
| PARAMETER                | PUBLISHED VALUE | CONDITION / NOTE |
| Transconductance         | 1.7 mA/V        | —                |
| Plate resistance minimum | 10 Mohm         | —                |
| Screen current minimum   | 1.2 mA          | —                |

| APPLICATION |                                        |                  |
|-------------|----------------------------------------|------------------|
| PARAMETER   | PUBLISHED VALUE                        | CONDITION / NOTE |
| Application | High-frequency acorn pentode amplifier | —                |

An independent reference for electronic tubes, vacuum tubes,  
and their source documents.

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