



## ELECTRONIC TUBE REFERENCE

## DL92

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

CONSOLIDATED TECHNICAL  
DATA

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

Directly heated output pentode designed for low-frequency power amplification. Its filamentary construction supports battery-operated receiver audio stages requiring useful output with low heater demand.

## GENERAL CHARACTERISTICS

|                     |                   |                      |                |
|---------------------|-------------------|----------------------|----------------|
| BASE DESIGNATION    | B7G               | BASE PINS            | 7              |
| NOMINAL HEATER      | 1.4 V / 100 mA    | PARALLEL HEATER      | 1.4 V / 100 mA |
| HEATING             | Direct            | SERIES OPERATION     | Capable        |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar        |

## SECTION RATINGS

|                                                                                        |                 |
|----------------------------------------------------------------------------------------|-----------------|
| SECTION1 Pentode                                                                       |                 |
| PLATE RESISTANCE                                                                       | 100000 $\Omega$ |
| TRANSCONDUCTANCE                                                                       | 0.00157 S       |
| MAXIMUM PLATE VOLTAGE                                                                  | 90 V            |
| MAXIMUM SCREEN VOLTAGE                                                                 | 90 V            |
| MAXIMUM PLATE DISSIPATION                                                              | 0.7 W           |
| MAXIMUM SCREEN DISSIPATION                                                             | 0.15 W          |
| MAXIMUM CATHODE CURRENT                                                                | 12 mA           |
| <i>Published ratings and characteristics promoted from the approved French source.</i> |                 |

Directly heated output pentode for low-frequency power amplification; co-designated DL92.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1951 Mullard Valve and Service Manual

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

## 1951 MULLARD VALVE AND SERVICE MANUAL

## Section 1 · Pentode

| OTHER          |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Voltage  | 90 V            | ParallelFilament |
| Screen Voltage | 67.5 V          | —                |
| Plate Current  | 7.4 mA          | ParallelFilament |
| Power Output   | 270 mW          | ParallelFilament |

| CHARACTERISTIC   |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| Transconductance | 1580 $\mu$ S    | ParallelFilament |
| Plate Resistance | 100000 ohm      | —                |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1963 Mullard

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

## 1963 MULLARD

## Section 1 · Pentode

| CHARACTERISTIC          |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| HeaterOrFilamentVoltage | 1.4 V           | —                |
| HeaterOrFilamentCurrent | 50 mA           | —                |
|                         |                 |                  |

| PARAMETER                 | PUBLISHED VALUE               | CONDITION / NOTE |
|---------------------------|-------------------------------|------------------|
| FilamentConnectionOptions | Series;Parallel;SingleSection | —                |
| FilamentSectionVoltage    | 1.4 V                         | —                |
| Plate To Grid Capacitance | 0.2 pF                        | —                |
| Input Capacitance         | 3 pF                          | —                |
| Output Capacitance        | 5 pF                          | —                |

| OTHER        |                 |                  |
|--------------|-----------------|------------------|
| PARAMETER    | PUBLISHED VALUE | CONDITION / NOTE |
| Power Output | 200 mW          | ClassA           |
| Power Output | 400 mW          | PushPull         |



#### SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1967 Mullard Receiving Tubes for Maintenance

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

#### 1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

### Section 1 · Pentode

| CAPACITANCE               |                 |                      |
|---------------------------|-----------------|----------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE     |
| Plate-to-Grid Capacitance | <0.4 pF         | PublishedCapacitance |
| Input Capacitance         | 4.35 pF         | PublishedCapacitance |
| Output Capacitance        | 6 pF            | PublishedCapacitance |

| CHARACTERISTIC       |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Voltage        | 90 V            | ParallelFilament |
| Screen Voltage       | 67.5 V          | ParallelFilament |
| Control Grid Voltage | -7 V            | ParallelFilament |
| Plate Current        | 7.4 mA          | ParallelFilament |
| Screen Current       | 1.4 mA          | ParallelFilament |
|                      |                 |                  |

| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
|---------------------------|-----------------|------------------|
| Transconductance          | 1570 $\mu$ S    | ParallelFilament |
| Screen-to-Control-Grid Mu | 5               | ParallelFilament |
| Plate Resistance          | 100 kohm        | ParallelFilament |

| OTHER              |                 |                             |
|--------------------|-----------------|-----------------------------|
| PARAMETER          | PUBLISHED VALUE | CONDITION / NOTE            |
| Plate Voltage      | 90 V            | PublishedLimits             |
| Plate Dissipation  | 0.7 W           | PublishedLimits             |
| Screen Voltage     | 90 V            | PublishedLimits             |
| Screen Dissipation | 0.15 W          | PublishedLimits             |
| Cathode Current    | 12 mA           | PublishedLimits             |
| Power Output       | 235 mW          | ClassA;SeriesFilament;90V   |
| Power Output       | 270 mW          | ClassA;ParallelFilament;90V |
| Power Output       | 780 mW          | PushPull;TwoTubes;90V       |


SOURCE DATA APPENDIX

## SOURCE OPERATING CONDITIONS

# 1968 Mazda Belvu

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

1968 MAZDA BELVU

## Section 1 · Pentode

| OTHER        |                 |                           |
|--------------|-----------------|---------------------------|
| PARAMETER    | PUBLISHED VALUE | CONDITION / NOTE          |
| Power Output | 0.235 W         | ClassA;OneTube;Plate 90 V |


SOURCE DATA APPENDIX

# 1999 Philips 0-D

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

1999 PHILIPS 0-D  
Section 1 · Pentode

| OTHER                   |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| Anode voltage           | 90 V            | ClassA           |
| Screen-grid voltage     | 67.5 V          | ClassA           |
| Anode current           | 7.4 mA          | ClassA           |
| Screen-grid current     | 1.4 mA          | ClassA           |
| Output power            | 270 mW          | ClassA           |
| Optimum load resistance | 8 kOhm          | ClassA           |