



## ELECTRONIC TUBE REFERENCE

# EBC91

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL  
DATA

**3 SECTIONS**

CONSTRUCTION

**DIODE-DIODE-TRIODE**

Double-diode very-high-mu triode for receiver detection and resistance-coupled audio amplification. Two diode sections handle detector and control-voltage rectification while the triode provides substantial small-signal gain.

## GENERAL CHARACTERISTICS

|                     |                |                      |               |
|---------------------|----------------|----------------------|---------------|
| BASE DESIGNATION    | —              | BASE PINS            | —             |
| NOMINAL HEATER      | 6.3 V / 300 mA | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect       | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Common cathode | SECTION CONSTRUCTION | Dissimilar    |

## SECTION RATINGS

### SECTION1 Diode

|                         |      |
|-------------------------|------|
| MAXIMUM CATHODE CURRENT | 1 mA |
|-------------------------|------|

*Representative section for two diode systems sharing the common cathode.*

### SECTION2 Diode

*No fixed ratings recorded.*

*Second physical diode section added in approved reconciliation.*

|                                                                                 |                |
|---------------------------------------------------------------------------------|----------------|
| <b>SECTION3</b> Triode                                                          |                |
| <b>PLATE RESISTANCE</b>                                                         | 62500 $\Omega$ |
| <b>TRANSCONDUCTANCE</b>                                                         | 0.00155 S      |
| <b>AMPLIFICATION FACTOR</b>                                                     | 100            |
| <b>MAXIMUM PLATE VOLTAGE</b>                                                    | 330 V          |
| <b>MAXIMUM PLATE DISSIPATION</b>                                                | 0.5 W          |
| <i>Published ratings and characteristics promoted from the approved source.</i> |                |

High-gain audio-frequency voltage-amplifier triode combined with twin diodes.

## 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 · Diode

| OTHER                 |                 |                  |
|-----------------------|-----------------|------------------|
| PARAMETER             | PUBLISHED VALUE | CONDITION / NOTE |
| Diode current maximum | 1 mA            | —                |

1963 MULLARD

## Section 3 · Triode

| CHARACTERISTICS           |                 |                      |
|---------------------------|-----------------|----------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE     |
| Plate voltage             | 100 V           | V <sub>a</sub> =100V |
| Grid voltage              | -1 V            | V <sub>a</sub> =100V |
| Plate current             | 0.5 mA          | V <sub>a</sub> =100V |
| Amplification factor      | 100             | V <sub>a</sub> =100V |
| Plate resistance          | 80000 ohm       | V <sub>a</sub> =100V |
| Plate voltage             | 250 V           | V <sub>a</sub> =250V |
| Grid voltage              | -2 V            | V <sub>a</sub> =250V |
| Plate current             | 1.2 mA          | V <sub>a</sub> =250V |
| Amplification factor      | 100             | V <sub>a</sub> =250V |
| Plate resistance          | 62500 ohm       | V <sub>a</sub> =250V |
| Transconductance at 250 V | 1.6 mA/V        | —                    |

# 1969 Tesla Manual of Electronic Tubes

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

1969 TESLA MANUAL OF ELECTRONIC TUBES

## Section 3 · Triode

| CHARACTERISTICS  |                 |                                    |
|------------------|-----------------|------------------------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE                   |
| Heater voltage   | 6.3 V           | Published nominal value            |
| Heater current   | 300 mA          | Published nominal value            |
| Transconductance | 1550 μS         | Published operating characteristic |

| OTHER                     |                                 |                          |
|---------------------------|---------------------------------|--------------------------|
| PARAMETER                 | PUBLISHED VALUE                 | CONDITION / NOTE         |
| Maximum plate dissipation | 0.5 W                           | Published maximum rating |
| Application               | AF resistance-coupled amplifier | Triode section           |

### TUBE TINKER

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