



## ELECTRONIC TUBE REFERENCE

8240

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Eimac low-mu water-cooled power triode for high-power audio amplifier and modulator service. Approximately 5 kW plate dissipation and 6 kV capability provide substantial continuous audio-frequency power for large transmitter modulators.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 7.5 V / 51.5 A    | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                  |         |
|----------------------------------------------------------------------------------|---------|
| SECTION 1 Triode                                                                 |         |
| TRANSCONDUCTANCE                                                                 | 0.011 S |
| AMPLIFICATION FACTOR                                                             | 5.6     |
| MAXIMUM PLATE VOLTAGE                                                            | 6000 V  |
| MAXIMUM PLATE DISSIPATION                                                        | 5000 W  |
| MAXIMUM GRID DISSIPATION                                                         | 50 W    |
| MAXIMUM CATHODE CURRENT                                                          | 2.5 A   |
| <i>Promoted from printed general-characteristics and maximum-ratings blocks.</i> |         |

The EIMAC 8240 is a low-mu water-cooled power triode for audio amplifier or modulator service.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1962 Eimac

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

1962 EIMAC

## Section 1 · Triode

| CHARACTERISTIC       |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Amplification factor | 5.6             | —                |
| Transconductance     | 11000 $\mu$ S   | —                |

| OTHER                                       |                 |                  |
|---------------------------------------------|-----------------|------------------|
| PARAMETER                                   | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum DC plate voltage                    | 6000 V          | —                |
| Maximum plate dissipation                   | 5000 W          | —                |
| Representative maximum-signal plate current | 3 A             | —                |



## SOURCE OPERATING CONDITIONS

# 1965 Eimac Tube Manual

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

1965 EIMAC TUBE MANUAL

## Section 1 · Triode

| CHARACTERISTIC          |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| Heater/filament voltage | 7.5 V           | —                |
| Heater/filament current | 51.5 A          | —                |
| Amplification factor    | 5               | —                |
| Transconductance        | 11000 $\mu$ S   | —                |

| CAPACITANCE                      |                 |                  |
|----------------------------------|-----------------|------------------|
| PARAMETER                        | PUBLISHED VALUE | CONDITION / NOTE |
| Input/grid-cathode capacitance   | 29 pF           | —                |
| Output/plate-cathode capacitance | 2.5 pF          | —                |
| Feedback/grid-plate capacitance  | 17 pF           | —                |

| OTHER                                |                 |                   |
|--------------------------------------|-----------------|-------------------|
| PARAMETER                            | PUBLISHED VALUE | CONDITION / NOTE  |
| Maximum plate voltage                | 6000 V          | —                 |
| Maximum plate dissipation            | 5000 W          | —                 |
| Maximum grid dissipation             | 50 W            | —                 |
| Maximum plate/cathode current        | 2.5 A           | —                 |
| Frequency for maximum ratings        | 75 MHz          | —                 |
| Typical two-tube audio plate voltage | 6000 V          | ClassAB1;TwoTubes |
| Maximum-signal two-tube audio output | 10000 W         | ClassAB1;TwoTubes |

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