



## ELECTRONIC TUBE REFERENCE

844

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

High-power transmitting tetrode designed for RF power amplification, linear amplification, oscillation, modulation, or frequency multiplication.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 5             |
| NOMINAL HEATER      | 2.5 V / 2.5 A     | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                        |          |
|----------------------------------------------------------------------------------------|----------|
| SECTION 1 Tetrode                                                                      |          |
| TRANSCONDUCTANCE                                                                       | 0.0006 S |
| AMPLIFICATION FACTOR                                                                   | 75       |
| MAXIMUM PLATE VOLTAGE                                                                  | 500 V    |
| MAXIMUM SCREEN VOLTAGE                                                                 | 175 V    |
| MAXIMUM PLATE DISSIPATION                                                              | 15 W     |
| Published maximum ratings and characteristic values promoted from the approved source. |          |

Screen-grid transmitting tetrode for RF power amplification and frequency-multiplier service.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1938 RCA Transmitting Tubes

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

## 1938 RCA TRANSMITTING TUBES

## Section 1 · Tetrode

| OTHER                     |                 |                                          |
|---------------------------|-----------------|------------------------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                         |
| HeaterVoltageNominal      | 2.5 V           | Nominal                                  |
| HeaterCurrentNominal      | 2.5 A           | Nominal                                  |
| Maximum Plate Voltage     | 500 V           | —                                        |
| Maximum Screen Voltage    | 175 V           | —                                        |
| Maximum Plate Dissipation | 15 W            | —                                        |
| Maximum Frequency         | 8 MHz           | Published full-rating frequency guidance |

| CHARACTERISTIC       |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Transconductance     | 600 $\mu$ S     | Typical          |
| Amplification Factor | 75              | Typical          |