



ELECTRONIC TUBE REFERENCE

8438

Power - Tetrode (NOT beam) (over 1000V 100W) 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	—
NOMINAL HEATER	5 V / 14.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	5.1
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM SCREEN VOLTAGE	750 V
MAXIMUM PLATE DISSIPATION	400 W
MAXIMUM SCREEN DISSIPATION	35 W
MAXIMUM GRID DISSIPATION	10 W
MAXIMUM CATHODE CURRENT	350 mA
<i>Alias record duplicated from the same published 4400A source.</i>	

The EIMAC 8438/4-400A is a compact rugged power tetrode rated at 400 W plate dissipation for amplifier, oscillator and modulator service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	0.12 pF	—
Input Capacitance	12.5 pF	—
Output Capacitance	4.7 pF	—
Frequency Maximum	110 MHz	—
Typical Plate Output Power	630 W	—
Plate-Modulated Plate Voltage Maximum	3200 V	—
AF Plate Voltage Maximum	4000 V	—

TUBE TINKER

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and their source documents.

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