



ELECTRONIC TUBE REFERENCE

4CV250000B

Power - Tetrode (NOT beam) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

High-power transmitting tetrode designed for RF amplification and modulation, with explicit pulse-modulator and regulator service ratings.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12 V / 660 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
AMPLIFICATION FACTOR	4.5
MAXIMUM PLATE VOLTAGE	40000 V
MAXIMUM SCREEN VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	250000 W
MAXIMUM SCREEN DISSIPATION	3500 W
MAXIMUM GRID DISSIPATION	1500 W
MAXIMUM CATHODE CURRENT	350 A
<i>MaxPlateVoltage=40000 V is the explicit pulse-modulator/regulator absolute maximum; ordinary RF maximum is 20000 V.</i>	

The EIMAC 4CV250,000B is a ceramic-metal vapor-cooled power tetrode for 250 to 500 kilowatt output service, including RF, audio, modulation, and pulse modulator or regulator operation.



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 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency for Maximum Ratings	50 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	760 pF	Grounded cathode
Output Capacitance	124 pF	Grounded cathode
Feedback Capacitance	6 pF	Grounded cathode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	20000 V	RF/AF service
Peak Cathode Current	350 A	PulseModulatorOrRegulator

TUBE TINKER

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and their source documents.

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