



ELECTRONIC TUBE REFERENCE

4CV250000

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
TETRODE

High-power ceramic/metal transmitting tetrode designed for RF power amplification, linear amplification, oscillation, modulation, broadcast, or related high-power service.

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	25000 V
MAXIMUM SCREEN VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	250000 W
MAXIMUM SCREEN DISSIPATION	3500 W
MAXIMUM GRID DISSIPATION	1500 W
MAXIMUM CATHODE CURRENT	50 A

The EIMAC 4CV250,000 is a ceramic-metal vapor-cooled power tetrode intended for the 250 to 500 kilowatt output level and high-power 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 · Tetrode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	875 pF	Grounded cathode
Output Capacitance	115 pF	Grounded cathode
Feedback Capacitance	1.2 pF	Grounded cathode



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	12 V	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Voltage	25000 V	—
Maximum DC Screen Voltage	2500 V	—
Maximum Plate/Cathode Current	50 A	—
Maximum Plate Dissipation	250000 W	—
Maximum Screen Dissipation	3500 W	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Grid Dissipation	1500 W	—
Frequency for Maximum Ratings	30 MHz	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Vapor and forced air	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Intended Output Power Range	250-500 kW	—