



ELECTRONIC TUBE REFERENCE

4CW50000C

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	10 V / 300 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	20000 V
MAXIMUM SCREEN VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	50000 W
MAXIMUM SCREEN DISSIPATION	1750 W
MAXIMUM GRID DISSIPATION	500 W
MAXIMUM CATHODE CURRENT	15 A
<i>Promoted ratings mapped semantically from printed characteristics/maximum-ratings tables; remaining published electrical and operating-condition data retained densely in TUBE_SECTION_PARAMETER.</i>	

The Eimac 8350/4CW50,000C is a ceramic-metal water-cooled power tetrode for roughly 50–150 kW output in RF amplifier/oscillator and audio amplifier/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
Frequency Maximum	30 MHz	—
Typical Plate Voltage	15000 V	—
Typical Screen Voltage	1500 V	—
Typical Plate Output Power	100000 W	—
Water Flow at 50kW Dissipation	15.2 gpm	—
Water Outlet Temperature Maximum	70 C	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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