



ELECTRONIC TUBE REFERENCE

4CW100000E

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	15.5 V / 215 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
MAXIMUM PLATE VOLTAGE	40000 V
MAXIMUM SCREEN VOLTAGE	2500 V
MAXIMUM PLATE DISSIPATION	100000 W
MAXIMUM SCREEN DISSIPATION	1750 W
MAXIMUM GRID DISSIPATION	500 W
MAXIMUM CATHODE CURRENT	200 A
<i>Published absolute maximum ratings promoted from the applicable service tables; pulse-service maxima are used only where explicitly noted in the tube note.</i>	

Ceramic/metal water-cooled high-power tetrode for roughly 100–250 kW output applications, including RF amplification/oscillation, AF modulation, and high-power pulse-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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	15.5 V	—
Heater/Filament Current	215 A	At 15.5 V nominal
Frequency for Maximum Ratings	108 MHz	—
Maximum Plate Voltage	40000 V	Highest published applicable absolute maximum
Maximum Screen Voltage	2500 V	Highest published applicable absolute maximum
Maximum Plate Dissipation	100000 W	—
Maximum Screen Dissipation	1750 W	—
Maximum Grid Dissipation	500 W	—
Maximum DC Plate Current	16 A	—
Peak Cathode Current	200 A	Pulse service
Pulse Plate Voltage	40000 V	PulseModulatorOrRegulator
Peak Cathode Current	200 A	PulseModulatorOrRegulator
Plate Dissipation During Pulse	1000000 W	PulseModulatorOrRegulator
Pulse Length	10 ms	PulseModulatorOrRegulator
Plate Voltage	18000 V	ClassAB;RFLinearAmplifier
Screen Voltage	1500 V	ClassAB;RFLinearAmplifier
Plate Output Power	168000 W	ClassAB;RFLinearAmplifier

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	370 pF	GroundedCathode
Output Capacitance	60 pF	GroundedCathode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Feedback Capacitance	1 pF	GroundedCathode
Input Capacitance	175 pF	GroundedGrid
Output Capacitance	60 pF	GroundedGrid
Feedback Capacitance	0.35 pF	GroundedGrid

TUBE TINKER

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