

ELECTRONIC TUBE REFERENCE

4CV8000A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Vapor-cooled ceramic-metal radial-beam power tetrode for low-distortion Class-AB1 audio/RF linear service and Class-C RF power amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	9 V / 41.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
AMPLIFICATION FACTOR	5.5
MAXIMUM PLATE VOLTAGE	7000 V
MAXIMUM SCREEN VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	8000 W
MAXIMUM SCREEN DISSIPATION	175 W
MAXIMUM GRID DISSIPATION	50 W
Published absolute maximum ratings promoted from the applicable service tables; pulse-service maxima are used only where explicitly noted in the tube note.	

Ceramic/metal vapor-cooled radial-beam power tetrode for Class-AB1 audio/RF linear service and Class-C RF power-amplifier service, with low intermodulation distortion.

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	9 V	—
Heater/Filament Current	41.5 A	At 9.0 V nominal
Frequency for Maximum Ratings	150 MHz	—
Maximum Plate Voltage	7000 V	Highest published applicable absolute maximum
Maximum Screen Voltage	1000 V	Highest published applicable absolute maximum
Maximum Plate Dissipation	8000 W	—
Maximum Screen Dissipation	175 W	—
Maximum Grid Dissipation	50 W	—
Maximum DC Plate Current	2 A	—
Plate Voltage	6000 V	ClassAB;RFLinearAmplifier
Screen Voltage	850 V	ClassAB;RFLinearAmplifier
Plate Output Power	7250 W	ClassAB;RFLinearAmplifier;HighOperatingPoint

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Screen Amplification Factor	5.5	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	130 pF	GroundedCathode
Output Capacitance	12.5 pF	GroundedCathode
Feedback Capacitance	1 pF	GroundedCathode