



ELECTRONIC TUBE REFERENCE

4CX25000A

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	9.5 V / 150 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
AMPLIFICATION FACTOR	6.7
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM SCREEN VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	25000 W
MAXIMUM SCREEN DISSIPATION	300 W
MAXIMUM GRID DISSIPATION	180 W
<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 forced-air-cooled power tetrode intended for VHF-TV linear-amplifier service, with full ratings through 230 MHz and 25 kW anode dissipation.

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	9.5 V	—
Heater/Filament Current	150 A	At 9.5 V nominal
Frequency for Maximum Ratings	230 MHz	—
Maximum Plate Voltage	10000 V	Highest published applicable absolute maximum
Maximum Screen Voltage	2000 V	Highest published applicable absolute maximum
Maximum Plate Dissipation	25000 W	—
Maximum Screen Dissipation	300 W	—
Maximum Grid Dissipation	180 W	—
Maximum DC Plate Current	8 A	—
Plate Voltage	7800 V	TelevisionLinearAmplifier;Channels7-13;CathodeDriven
Screen Voltage	1400 V	TelevisionLinearAmplifier;Channels7-13;CathodeDriven
Plate Output Power	34700 W	TelevisionLinearAmplifier;PeakSync

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Screen Amplification Factor	6.7	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	171 pF	GroundedCathode
Output Capacitance	18.4 pF	GroundedCathode
Feedback Capacitance	0.57 pF	GroundedCathode

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	79 pF	GroundedGrids
Output Capacitance	19 pF	GroundedGrids
Feedback Capacitance	0.06 pF	GroundedGrids

TUBE TINKER

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