

ELECTRONIC TUBE REFERENCE

4CX1500A

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	5 V / 38.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.026 S
AMPLIFICATION FACTOR	5.5
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM SCREEN VOLTAGE	750 V
MAXIMUM PLATE DISSIPATION	1500 W
MAXIMUM SCREEN DISSIPATION	75 W
MAXIMUM GRID DISSIPATION	25 W
Published absolute maximum ratings promoted from the applicable service tables; pulse-service maxima are used only where explicitly noted in the tube note.	

General-purpose ceramic radial-beam tetrode for VHF, Class-C power amplification, Class-B/AB linear amplification, regulator, and 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	5 V	—
Heater/Filament Current	38.5 A	At 5.0 V nominal
Frequency for Maximum Ratings	150 MHz	—
Maximum Plate Voltage	5000 V	Highest published applicable absolute maximum
Maximum Screen Voltage	750 V	Highest published applicable absolute maximum
Maximum Plate Dissipation	1500 W	—
Maximum Screen Dissipation	75 W	—
Maximum Grid Dissipation	25 W	—
Maximum DC Plate Current	1 A	—
Plate Voltage	3900 V	ClassAB;RFLinearAmplifier
Screen Voltage	600 V	ClassAB;RFLinearAmplifier
Plate Output Power	1850 W	ClassAB;RFLinearAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Screen Amplification Factor	5.5	—
Transconductance	26000 μ S	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	78 pF	GroundedCathode
Output Capacitance	10.5 pF	GroundedCathode
Feedback Capacitance	0.25 pF	GroundedCathode

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

199X Svetlana

Published test conditions and operating points. Values on this page are preserved as reported by this source.

199X SVETLANA

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	5000 V	—
Maximum Screen Voltage	750 V	—
Maximum Plate Dissipation	1500 W	—
Maximum Screen Dissipation	75 W	—