



ELECTRONIC TUBE REFERENCE

4CX1500B

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	6 V / 9 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
TRANSCONDUCTANCE	0.03 S
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	400 V
MAXIMUM PLATE DISSIPATION	1500 W
MAXIMUM SCREEN DISSIPATION	12 W
MAXIMUM GRID DISSIPATION	1 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 radial-beam tetrode designed for low intermodulation distortion and low grid interception in RF and audio linear-amplifier 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	6 V	—
Maximum Plate Voltage	3000 V	Highest published applicable absolute maximum
Maximum Screen Voltage	400 V	Highest published applicable absolute maximum
Maximum Plate Dissipation	1500 W	—
Maximum Screen Dissipation	12 W	—
Maximum Grid Dissipation	1 W	—
Maximum DC Plate Current	900 mA	—
Heater Current	9 A–11 A	At 6.0 V
Plate Voltage	2900 V	ClassAB;RFLinearAmplifier
Screen Voltage	225 V	ClassAB;RFLinearAmplifier
Plate Output Power	1100 W	ClassAB;RFLinearAmplifier

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	30000 uS	—
Heating Time	3 min	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input Capacitance	75–88 pF	GroundedCathode
Output Capacitance	10.8–12.8 pF	GroundedCathode
Feedback Capacitance	—0.03 pF	GroundedCathode
Input Capacitance	38 pF	GroundedGridAndScreen
Output Capacitance	12 pF	GroundedGridAndScreen

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Feedback Capacitance	—0.005 pF	GroundedGridAndScreen

TUBE TINKER

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and their source documents.

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