



ELECTRONIC TUBE REFERENCE

3CX15000A3

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Ceramic-metal industrial power triode designed for high-power RF amplifier, oscillator, or modulator service. Manufacturer data emphasize transmitting duty, substantial plate dissipation, and the cooling provisions required for continuous professional operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 160 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	15000 W
MAXIMUM GRID DISSIPATION	500 W
MAXIMUM CATHODE CURRENT	6 A
<i>Maximum ratings promoted from the printed service-rating tables; typical operating values are preserved as parameters.</i>	

The EIMAC 3CX15000A3 is a air-cooled medium-mu ceramic/metal power triode for industrial rf heating, fm, and 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 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Filament - - - - - —« - - _ 55 pF	55 pF	—
Plate-Filament, max, - - - - - - - - - 1.4 pF	1.4 pF	—
Grid-Plate - - = - - - - - - - - 34 pF	34 pF	—
Grid-Filament - - = - - - - - 60 pF	60 pF	—
Grid-Plate - - - - = - - - - 38 pF	38 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	8000 V	—
Maximum plate/cathode current	6 A	—
Maximum plate dissipation	15000 W	—
Maximum grid dissipation	500 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1975 Eimac Tube Manual

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

1975 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	20	—
Heater/filament voltage	6.3 V	—
Heater/filament current	160 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	8000 V	—
Maximum plate dissipation	15000 W	—
Maximum grid dissipation	500 W	—
Maximum cathode/plate current	6 A	—
Frequency for maximum ratings	100 MHz	—
Class-C maximum plate voltage	8000 V	ClassC
Plate-modulated maximum plate voltage	6500 V	PlateModulated
Recommended maximum grid current	1 A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-filament capacitance	55–55 pF	—
Output/plate-filament capacitance	1.4–1.4 pF	—
Feedback/grid-plate capacitance	34–34 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—



1976 Eimac Tube Manual

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1976 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	20	—
Heater/filament voltage	6.3 V	—
Heater/filament current	160 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	8000 V	—
Maximum plate dissipation	15000 W	—
Maximum grid dissipation	500 W	—
Maximum cathode/plate current	6 A	—
Frequency for maximum ratings	100 MHz	—
Class-C maximum plate voltage	8000 V	ClassC
Plate-modulated maximum plate voltage	6500 V	PlateModulated
Recommended maximum grid current	1 A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-filament capacitance	55–55 pF	—
Output/plate-filament capacitance	1.4–1.4 pF	—
Feedback/grid-plate capacitance	34–34 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—



SOURCE DATA APPENDIX

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Current @	7.5 V	General
Input	55 pF	General
Output	34 pF	General
Feedback	1.4 pF	General
Input	55 pF	General
Output	1.4 pF	General
Feedback	34 pF	General
Maximum frequency for full ratings (CW)	100 MHz	General

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC plate voltage	8000 V	Maximum Ratings
DC plate current	6 A	Maximum Ratings
Plate dissipation	15000 W	Maximum Ratings
Grid dissipation	500 W	Maximum Ratings
DC plate voltage	7000 V	Typical operation
Zero-signal DC plate current	1.5 A	Typical operation
Single-tone DC plate current	4.8 A	Typical operation
Zero-signal DC grid voltage	-270 V	Typical operation

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Max DC grid current	400 mA	Typical operation
Peak RF grid voltage	540 V	Typical operation
Peak driving power	215 W	Typical operation
Single-tone plate output power	23000 W	Typical operation
Resonant load impedance	730 ohms	Typical operation
DC plate voltage	8000 V	Maximum ratings (per tube)
DC plate current	6 A	Maximum ratings (per tube)
Plate dissipation	15000 W	Maximum ratings (per tube)
Grid dissipation	500 W	Maximum ratings (per tube)
DC plate voltage	7000 V	Typical operation
DC grid voltage	-600 V	Typical operation
Maximum-signal DC plate current	6 A	Typical operation
Maximum-signal DC grid current	660 mA	Typical operation
Peak AF grid voltage	1040 V	Typical operation
Driving power	660 W	Typical operation
Plate input power	42000 W	Typical operation
Plate output power	30000 W	Typical operation
Plate dissipation	12000 W	Typical operation
Resonant load impedance	600 ohms	Typical operation
may be exceeded. Plate overcurrent protec- below	225 °C	periods such as during tuning. Over-current Vdc Class A, B, or C service. The
tion should be provided to remove plate perature of	40 °C	periods such as during tuning. Over-current Vdc Class A, B, or C service. The

TUBE TINKER

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