



ELECTRONIC TUBE REFERENCE

3CX1000A7

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	5 V / 30.5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	200
MAXIMUM PLATE VOLTAGE	3500 V
MAXIMUM PLATE DISSIPATION	1500 W
MAXIMUM GRID DISSIPATION	45 W
MAXIMUM CATHODE CURRENT	1 A
Highest applicable published ratings promoted; service-specific ratings and operating points are preserved in TUBE_SECTION_PARAMETER.	

The Eimac 3CX1000A7/3CX1000A7 is a ceramic-metal zero-bias power triode for class-AB2 linear RF service, push-pull audio amplification or modulation, and VHF television applications.

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	200	—
Heater/filament voltage	5 V	—
Heater/filament current	30.5 A	—
Typical zero-bias plate current	300 mA	E _b =2500V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	3500 V	—
Maximum plate dissipation	1500 W	—
Maximum grid dissipation	45 W	—
Maximum cathode/plate current	1 A	—
Frequency for maximum ratings	220 MHz	—
Audio-service plate dissipation	1000 W	Audio
RF-service plate dissipation	1500 W	RF

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-filament capacitance	32–32 pF	—
Output/plate-filament capacitance	0.15–0.15 pF	—
Feedback/grid-plate capacitance	14–14 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1976 Eimac Tube Manual

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

1976 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	200	—
Heater/filament voltage	5 V	—
Heater/filament current	30.5 A	—
Typical zero-bias plate current	300 mA	E _b =2500V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	3500 V	—
Maximum plate dissipation	1500 W	—
Maximum grid dissipation	45 W	—
Maximum cathode/plate current	1 A	—
Frequency for maximum ratings	220 MHz	—
Audio-service plate dissipation	1000 W	Audio
RF-service plate dissipation	1500 W	RF

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-filament capacitance	32–32 pF	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output/plate-filament capacitance	0.15–0.15 pF	—
Feedback/grid-plate capacitance	14–14 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker