



ELECTRONIC TUBE REFERENCE

3X3000A7

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-mu external-anode power triode intended for zero-bias Class B audio or RF amplification, including grounded-grid service. It offers high power gain and multi-kilowatt output with full ratings to approximately 75 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.5 V / 51 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	200
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM PLATE DISSIPATION	3000 W
MAXIMUM GRID DISSIPATION	225 W
MAXIMUM CATHODE CURRENT	2.5 A
Highest applicable published rating promoted; service-specific CW, RF, audio, industrial, and pulse limits retained as parameter rows.	

The Eimac 3X3000A7 is a high-mu external-anode power triode intended for zero-bias Class-B audio or radio-frequency amplifier service, including grounded-grid operation.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency for Maximum Ratings	75 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC Plate Current	2.5 A	Class-B maximum
Typical Maximum-Signal Plate Output Power	11000 W	Class-B grid-driven, two tubes, 4000 V plate

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Filament Capacitance	38 pF	—
Grid-Plate Capacitance	24 pF	—
Plate-Filament Capacitance	0.6 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Eimac Tube Manual

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

1965 EIMAC TUBE MANUAL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	7.5 V	—
Heater/filament current	51 A	—
Amplification factor	200	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	38 pF	—
Output/plate-cathode capacitance	0.6 pF	—
Feedback/grid-plate capacitance	24 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	5000 V	—
Maximum plate dissipation	3000 W	—
Maximum grid dissipation	225 W	—
Maximum plate/cathode current	2.5 A	—
Frequency for maximum ratings	75 MHz	—
Typical grounded-grid plate voltage	5000 V	ClassB
Typical grounded-grid plate current	1.56 A	ClassB
Typical power gain	20 x	GroundedGrid