



ELECTRONIC TUBE REFERENCE

3W5000A3

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Medium-mu water-cooled power triode for high-power amplifier, oscillator, or modulator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	15 V / 51 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.02 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	6000 V
MAXIMUM PLATE DISSIPATION	5000 W
MAXIMUM GRID DISSIPATION	150 W
MAXIMUM CATHODE CURRENT	2.5 A
Maximum ratings promoted from the printed service-rating tables; typical operating values are preserved as parameters.	

The EIMAC 3W5000A3 is a medium-mu water-cooled power triode for amplifier, oscillator or 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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	20	—
Transconductance	20000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC plate voltage	6000 V	—
Maximum plate dissipation	5000 W	—
Representative maximum-signal plate current	2.5 A	—



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	51.5 A	—
Amplification factor	20	—
Transconductance	20000 μ S	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	35 pF	—
Output/plate-cathode capacitance	0.9 pF	—
Feedback/grid-plate capacitance	20 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	6000 V	—
Maximum plate dissipation	5000 W	—
Maximum grid dissipation	150 W	—
Maximum plate/cathode current	2.5 A	—
Frequency for maximum ratings	75 MHz	—
Typical RF plate voltage	4000 V	ClassC
Typical RF output power	7500 W	ClassC
Typical RF output power	10000 W	PlateVoltage=5000-6000V

TUBE TINKER

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

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