



ELECTRONIC TUBE REFERENCE

3X100A5

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Small planar high-mu power triode for VHF/UHF RF amplifier and oscillator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.025 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.025 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM GRID DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	125 mA
<i>Maximum ratings promoted from the printed service-rating tables; typical operating values are preserved as parameters.</i>	

The EIMAC 3X100A5 is a small planar high-mu power triode for VHF/UHF RF amplifier and oscillator 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-Plate - - - - - o 5 o - 1.86 216 uuf	216 pF	—
Grid-Cathode - - - - - = - - 5.60 7.60 uuf	7.6 pF	—
Plate-Cathode - - - - - - - a o - 0.035 uuf	0.035 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	1000 V	—
Maximum plate/cathode current	125 mA	—
Maximum plate dissipation	100 W	—
Maximum grid dissipation	2 W	—



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	6.3 V	—
Heater/filament current	1.025 A	—
Amplification factor	100	—
Transconductance	25000 μ S	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input/grid-cathode capacitance	5.6 pF	—
Output/plate-cathode capacitance	7.6 pF	—
Feedback/grid-plate capacitance	0.035 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	2500 V	—
Maximum plate dissipation	70 W	—
Maximum grid dissipation	2 W	—
Maximum plate/cathode current	125 mA	—
Frequency for maximum ratings	2500 MHz	—
Heater heating time	60 s	—
Useful RF output at 500 MHz	27 W	500MHz
Useful oscillator output at 2500 MHz	12 W	2500MHz