



ELECTRONIC TUBE REFERENCE

6696A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Very-high-power water-cooled transmitting triode for Class C RF and Class AB audio-frequency service. Tens of kilowatts of plate dissipation and published RF output in the multi-tens-of-kilowatts range suit major fixed transmitter installations.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	13 V / 205 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	16000 V
MAXIMUM PLATE DISSIPATION	60000 W
MAXIMUM GRID DISSIPATION	1000 W
MAXIMUM CATHODE CURRENT	11 A
<i>Promoted fields populated from published ratings/characteristics; additional published values retained in TUBE_SECTION_PARAMETER.</i>	

Ceramic-insulated water-cooled high-power triode.

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
Filament Current	190 A–220 A	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Starting Filament Current Maximum	800 A	—
Frequency for Maximum Ratings	40 MHz	—
Maximum DC Plate Current RF Class C	11 A	ClassC
Maximum DC Grid Voltage	-3200 V	—
Maximum DC Grid Current	2 A	ClassC
Typical RF Plate Voltage	15 kV	ClassC
Typical RF Plate Output Power	80 kW	ClassC
Typical AF Plate Output Power	152 kW	ClassAB;TwoTubes

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	50–57 pF	—
Grid-Filament Capacitance	65–85 pF	—
Plate-Filament Capacitance	2–3.2 pF	—

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
Filament Voltage	13 V	—
Filament Current	190-220 A	—
Filament Starting Current	800 A	—
Amplification Factor	20	—
Typical RF Plate Output Power	80 kW	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	47-57 pF	—
Grid-Filament Capacitance	65-85 pF	—
Plate-Filament Capacitance	2.0-3.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Frequency for Maximum Ratings	40 MHz	—
Maximum DC Plate Voltage	16000 V	—
Maximum Plate Dissipation	60000 W	—
Maximum Grid Dissipation	1000 W	—