



ELECTRONIC TUBE REFERENCE

8033

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power triode designed for pulse-modulator service, with manufacturer ratings centered on short-duration high-voltage, high-current pulses rather than continuous RF or audio operation. Its intended role is switching or modulating pulsed power in professional equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	15.5 V / 420 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	65000 V
MAXIMUM PLATE DISSIPATION	225000 W
MAXIMUM CATHODE CURRENT	600 A

Very-high-power water-cooled triode for RF, audio modulation, and pulsed service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1962 ITT

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

1962 ITT

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	15.5 V	—
Filament Current	420 A	—
Amplification Factor	16	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	110 pF	—
Grid-Filament Capacitance	140 pF	—
Plate-Filament Capacitance	6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Voltage	65000 V	—
Maximum Plate Dissipation	225000 W	—
Maximum Signal DC Plate Current	20 A	ClassB audio
Peak Plate Pulse Supply Voltage	45000 V	RF pulsed
Pulse Cathode Current	600 A	Modulator pulsed
Pulse Power Output	19.8 MW	—

TUBE TINKER

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and their source documents.

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