



ELECTRONIC TUBE REFERENCE

8045

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	12.6 V / 285 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	18000 V
MAXIMUM PLATE DISSIPATION	90000 W
MAXIMUM CATHODE CURRENT	12 A
Applicable promoted fields mapped semantically from the printed ratings; device-specific electrical limits and operating conditions are preserved densely in TUBE_SECTION_PARAMETER.	

Water-cooled thoriated-tungsten high-power triode for RF amplifier/oscillator, pulse, and hard-tube-modulator 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	85 pF	—
Grid-Filament Capacitance	85 pF	—
Plate-Filament Capacitance	6 pF	—
AF Maximum-Signal Plate Current	12 A	ClassB
AF Maximum Plate Input	175 kW	ClassB
Typical AF Plate Voltage	14000 V	ClassB;TwoTubes
Typical AF Output Power	210 kW	ClassB;TwoTubes
RF Class-B Maximum Plate Voltage	16000 V	ClassB
RF Class-B Maximum Plate Current	14 A	ClassB
Plate-Modulated Plate Voltage	12000 V	ClassC;Telephony
Class-C Telegraphy Plate Voltage Maximum	18000 V	ClassC