

ELECTRONIC TUBE REFERENCE

7845

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Shielded-grid pulse-switch triode designed for very-high-voltage pulse modulator and amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6 V / 60 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	500
MAXIMUM PLATE VOLTAGE	80000 V
MAXIMUM PLATE DISSIPATION	3000 W
MAXIMUM GRID DISSIPATION	75 W
MAXIMUM CATHODE CURRENT	90 A
Applicable promoted ratings populated from printed headings; remaining published device-specific data retained as parameters.	

Shielded-grid pulse-switch triode for very-high-voltage pulse modulator/amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1971 Machlette Laboratories

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

1971 MACHLETTE LABORATORIES

Section 1 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-Plate Capacitance	1.9 pF	—
Grid-Cathode Capacitance	250 pF	—
Plate-Cathode Capacitance	18 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Plate Voltage	80000 V	Pulse
DC Grid Voltage	-600 V	—
DC Plate Current	250 mA	—
Typical Pulse Power Output	4.5 MW	Pulse

TUBE TINKER

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and their source documents.

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