

ELECTRONIC TUBE REFERENCE

8547

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Water-cooled general-purpose high-power triode for industrial heating, audio power, and pulse service. Rated for roughly 175 kW plate dissipation and 17 kV plate voltage, with pulse cathode current approaching 19 A.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	14.5 V / 450 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	14
MAXIMUM PLATE VOLTAGE	17000 V
MAXIMUM PLATE DISSIPATION	175000 W
MAXIMUM GRID DISSIPATION	2500 W
MAXIMUM CATHODE CURRENT	18.6 A
Maximum ratings promoted from the printed pulse/CW service tables. X-ray flag follows the explicit source warning.	

The Machlett ML-8547 is a water-cooled general-purpose high-power triode for industrial heating, audio power and pulse 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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	14	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum DC/peak plate voltage	17000 V	—
Maximum plate dissipation	175000 W	—
Maximum grid dissipation	2500 W	—
Maximum pulse cathode current	18.6 A	—

TUBE TINKER

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and their source documents.

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