

ELECTRONIC TUBE REFERENCE

8538

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Miniature high-mu planar triode for pulsed oscillator, power-amplifier, frequency-multiplier, and switching service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.03 S
AMPLIFICATION FACTOR	145
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	100 W
MAXIMUM GRID DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	5 A
General characteristics and applicable CW/pulsed maximum ratings promoted semantically.	

The Machlett ML-8538 is a miniature high-mu planar triode for pulsed oscillator, power-amplifier, multiplier and switch 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	145	—
Transconductance	30000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	8000 V	—
Maximum plate dissipation	100 W	—
Maximum grid dissipation	1.5 W	—
Maximum pulse/cathode current	5 A	—