

ELECTRONIC TUBE REFERENCE

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

7668

Specialized - Switching Tube electronic tube

Oil-immersed high-voltage high-mu pulse-switch triode for hard-tube modulators. Extreme pulse-voltage and multiampere current capability make it a specialized switching device for radar and other high-energy pulsed systems.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 29 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	180
MAXIMUM PLATE VOLTAGE	150000 V
MAXIMUM PLATE DISSIPATION	750 W
MAXIMUM GRID DISSIPATION	50 W
MAXIMUM CATHODE CURRENT	15 A
Applicable promoted ratings populated from printed headings; remaining published device-specific data retained as parameters.	

Oil-immersed high-voltage high-mu pulse-switch triode for hard-tube modulators.

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	7.5 pF	—
Grid-Cathode Capacitance	20 pF	—
Plate-Cathode Capacitance	0.2 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak Positive Plate Voltage	160000 V	Pulse
DC Grid Voltage	-1500 V	—
Peak Positive Grid Voltage	1000 V	—
Peak Negative Grid Voltage	-2000 V	—
Typical Pulse Plate Current	11 A	Pulse
Typical Pulse Power Output	1.3 MW	Pulse