

ELECTRONIC TUBE REFERENCE

LPT60

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Machlett high-power directly heated triode for transmitting and RF power service.

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 DISSIPATION	750 W
Promoted ratings/characteristics mapped from printed headings; device/service-specific values retained in parameters.	

The ML-LPT 60 is a high voltage, high Grid Cutoff Voltage at signed primarily to operate as a 100 kV Plate Voltage, for radar and similar — 700 volts hard-tube pulse modulators minimum: applications. In this service it can deliver cir- 180 cuity and performance requirements. Interelectrode The ML-L PT 60 is designed for operation in oit Grid-Plate: 7.5 pf

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	12.6 V	Filament Voltage: 12.6 volts
Filament Current	29 A	Filament Current: 29 amps
Current, maximum	120 A	Current, maximum: 120 amps
Resistance	0.0053	Resistance: 0.0053 ohm
The ML-LPT	60	The ML-LPT 60 is a high voltage, high Grid Cutoff Voltage at
signed primarily to operate as a	100 mA	signed primarily to operate as a 100 kV Plate Voltage,
output in the order of	1	output in the order of 1.0 Mw, depending
tective installation are given in National Temperature [1]	165 C	tective installation are given in National Temperature: 165°C (329 °F)
tective installation are given in National Temperature [2]	329 C	tective installation are given in National Temperature: 165°C (329 °F)
Peak Positive Grid Voltage [1]	1000	Peak Positive Grid Voltage 1000 v ;79.:0 +.79) T
Peak Positive Grid Voltage [2]	79	Peak Positive Grid Voltage 1000 v ;79.:0 +.79) T
Peak Positive Grid Voltage [3]	0	Peak Positive Grid Voltage 1000 v ;79.:0 +.79) T
Peak Positive Grid Voltage [4]	79	Peak Positive Grid Voltage 1000 v ;79.:0 +.79) T
i Voltage	2002	i Voltage. - 2002 v CLAMP©ONc;n_s
Grid Dissipation	55	Grid Dissipation 55 EH
Plate Dissipation cociiiiiet '	2	Plate Dissipation cociiiiiet ' 2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PulseDuration coviieieenns i (	64.77	PulseDuration coviieieenns i (64.77)
DCPlateVoltage C.cvvennnn	80	DCPlateVoltage c.cvvennnn 80 kv
DCGridVoltage coviiinnn —	-700	DCGridVoltage coviiinnn —700 V
Pulse Positive Grid Voltage	700	Pulse Positive Grid Voltage 700 v
Pulse PlateCurrent t	11	Pulse PlateCurrent t 11 a
PuiseGridCurrent	27	PuiseGridCurrent 27 a
Pulse PowerOutput	0	Pulse PowerOutput 0onot.
CONSTANT GRID-VOLTAGE CHARACTERISTICS 'fj ~	40	CONSTANT GRID-VOLTAGE CHARACTERISTICS 'fj ~40]
"GRID CURRENT—+~— . }mv; :%	-5	. "GRID CURRENT—+~— . }mv; :%-— 5@
SNE I T GRID VOLTAGE // T T3 T % [1]	5	SNE I T GRID VOLTAGE // T T3 T %5 &5 7 8§ 3§
SNE I T GRID VOLTAGE // T T3 T % [2]	5	SNE I T GRID VOLTAGE // T T3 T %5 &5 7 8§ 3§
SNE I T GRID VOLTAGE // T T3 T % [3]	7	SNE I T GRID VOLTAGE // T T3 T %5 &5 7 8§ 3§
SNE I T GRID VOLTAGE // T T3 T % [4]	8	SNE I T GRID VOLTAGE // T T3 T %5 &5 7 8§ 3§
SNE I T GRID VOLTAGE // T T3 T % [5]	3	SNE I T GRID VOLTAGE // T T3 T %5 &5 7 8§ 3§
T i irv= At BRI (N Ll e ! ! ; ! A	28154 kV	T i irv= At BRI (N Ll e ! ! ; ! A-28154 PLATE VOLTAGE —KILOVOLTS
! a-ppoTi/RR	0	! a-ppoTi/RR 0 E VOLTAGE—VALTS. - ! 'J T -