

ELECTRONIC TUBE REFERENCE

GM100

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Soviet directly heated power triode designed specifically for low-frequency power amplification. Approximately 1 kW plate dissipation and 5 kV capability support high-current audio and modulator service from a heavy tungsten cathode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	17 V / —	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM PLATE DISSIPATION	1000 W
Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.	

The 'M-100 triode is used as a low-frequency power 0'@ Cathode: directly heated, tungsten. 1, 2 - kartop; 3 — ceTka; Envelope: glass, no-base. A~aHog- BepxHUd BLIBOL,

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Electronintorg

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

1968 ELECTRONINTORG

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
power [1]	100 Hz	The 'M-100 triode is used as a low-frequency power 0'@
power [2]	0 Hz	The 'M-100 triode is used as a low-frequency power 0'@
Cathode: directly heated, tungsten [1]	1	Cathode: directly heated, tungsten. 1, 2 - kartop; 3 — ceTka;
Cathode: directly heated, tungsten [2]	2	Cathode: directly heated, tungsten. 1, 2 - kartop; 3 — ceTka;
Cathode: directly heated, tungsten [3]	3	Cathode: directly heated, tungsten. 1, 2 - kartop; 3 — ceTka;
grid [1]	495	Height: at most 495 mm. 1, 2 - cathode; 3 — grid;
grid [2]	1	Height: at most 495 mm. 1, 2 - cathode; 3 — grid;
grid [3]	2	Height: at most 495 mm. 1, 2 - cathode; 3 — grid;
grid [4]	3	Height: at most 495 mm. 1, 2 - cathode; 3 — grid;
temperature, °C [1]	-60 C	 -60—+70 Ambient temperature, °C —60to +70
temperature, °C [2]	70 C	 -60—+70 Ambient temperature, °C —60to +70
temperature, °C [3]	-60 C	 -60—+70 Ambient temperature, °C —60to +70
temperature, °C [4]	70 C	 -60—+70 Ambient temperature, °C —60to +70
voltage	1 uS	KpyTuaHa xapakTepuCTukim (npu HanpskeHwn Mutual conductance (at anode voltage 1 kV,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
currents [1]	1 mA	aHoga 1 kB, Tokax aHopa anode currents 500-700 mA), mA/V 5-8
currents [2]	500 mA	aHoga 1 kB, Tokax aHopa anode currents 500-700 mA), mA/V 5-8
currents [3]	-700 mA	aHoga 1 kB, Tokax aHopa anode currents 500-700 mA), mA/V 5-8
currents [4]	5 mA	aHoga 1 kB, Tokax aHopa anode currents 500-700 mA), mA/V 5-8
currents [5]	-8 mA	aHoga 1 kB, Tokax aHopa anode currents 500-700 mA), mA/V 5-8
voltage [1]	500700 kV	500700 MA), MA/B L 5-8 Gain coefficient (at anode voltage 1 and 2 kV,
voltage [2]	5 kV	500700 MA), MA/B L 5-8 Gain coefficient (at anode voltage 1 and 2 kV,
voltage [3]	-8 kV	500700 MA), MA/B L 5-8 Gain coefficient (at anode voltage 1 and 2 kV,
voltage [4]	1 kV	500700 MA), MA/B L 5-8 Gain coefficient (at anode voltage 1 and 2 kV,
voltage [5]	2 kV	500700 MA), MA/B L 5-8 Gain coefficient (at anode voltage 1 and 2 kV,
voltage, kV Ll [1]	5 kV	Hanpsxenue aHoga, kB L. 5 Anode voltage, kV Ll 5
voltage, kV Ll [2]	5 kV	Hanpsxenue aHoga, kB L. 5 Anode voltage, kV Ll 5
dissipation, kW oo [1]	1 kW	PaccenBaemas MOWHOCTL aHoAOM, KBT 1 Anode dissipation, kW oo 1
dissipation, kW oo [2]	1 kW	PaccenBaemas MOWHOCTL aHoAOM, KBT 1 Anode dissipation, kW oo 1
Anode Characteristic Curves: U, = [1]	1100	1100 A Averaged Anode Characteristic Curves: U, = 17V 110 II
Anode Characteristic Curves: U, = [2]	17	1100 A Averaged Anode Characteristic Curves: U, = 17V 110 II
Anode Characteristic Curves: U, = [3]	110	1100 A Averaged Anode Characteristic Curves: U, = 17V 110 II

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

