



ELECTRONIC TUBE REFERENCE

GM2A

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Russian liquid-cooled power triode for electronic current and voltage regulator service in RF equipment.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Triode	
MAXIMUM PLATE VOLTAGE	8000 V
MAXIMUM PLATE DISSIPATION	3500 W
<i>Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.</i>	

The GM-2A triode is used in electronic current and voltage regulators in RF equipment. It has a directly heated carbonized thoriated-tungsten cathode and forced liquid anode cooling.

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
current and	2 A	The M-2A triode is used in electronic current and
grid [1]	1	Envelope: glass-to-metal. 1, 3 - cathode; 2, 4 — grid;
grid [2]	3	Envelope: glass-to-metal. 1, 3 - cathode; 2, 4 — grid;
grid [3]	2	Envelope: glass-to-metal. 1, 3 - cathode; 2, 4 — grid;
grid [4]	4	Envelope: glass-to-metal. 1, 3 - cathode; 2, 4 — grid;
temperature, °C	98 C	JnHeHbie Harpysku ¢ yokopeHuem, M/c? 98 Ambient temperature, °C
anode	4 uS	KpyTusHa xapakTepucTuku (Npu Hanpsi>keHun Mutual conductance (at anode voltage 4 kV, anode
voltages	4 V	KoadhchuymeHT yenneHus (npu HanpsixxeHusx Gain coefficient (at anode voltages 4 and
Interelectrode capacitance, pF	6 pF	MexxaneKTPogHbie emkocTy, Nd, He 6onee: Interelectrode capacitance, pF:
input,atmost [1]	25	BXOOHAA oivinronnnnnnnnnnnnnnnns 25 input,atmost 25
input,atmost [2]	25	BXOOHAA oivinronnnnnnnnnnnnnnnns 25 input,atmost 25
output,atmost	1	BBIXOAHAR oot iie i 1 output,atmost
Mutual conductance over [1]	500 uS	KpyTusHa xapakTepucTuku B TedeHue 500 4 Mutual conductance over 500 h of service,
Mutual conductance over [2]	4 uS	KpyTusHa xapakTepucTuku B TedeHue 500 4 Mutual conductance over 500 h of service,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Mutual conductance over [3]	500 uS	KpyTusHa xapakTepucTyku B TedeHue 500 4 Mutual conductance over 500 h of service,
dissipation [1]	3.5 kW	NPY MOLLHOCTK, paccenBaemon at anode dissipation 3.5kW 6.5
dissipation [2]	6.5 kW	NPY MOLLHOCTK, paccenBaemon at anode dissipation 3.5kW 6.5
dissipation [1]	35 kW	aHopgom, 35kBT 6,5 at anode dissipation 1 kW 8
dissipation [2]	65 kW	aHopgom, 35kBT 6,5 at anode dissipation 1 kW 8
dissipation [3]	1 kW	aHopgom, 35kBT 6,5 at anode dissipation 1 kW 8
dissipation [4]	8 kW	aHopgom, 35kBT 6,5 at anode dissipation 1 kW 8
current, A [1]	1 A	aHogom, 1KkBT L L 8 Filament startingcurrent, A 50
current, A [2]	8 A	aHogom, 1KkBT L L 8 Filament startingcurrent, A 50
current, A [3]	50 A	aHogom, 1KkBT L L 8 Filament startingcurrent, A 50
Dissipation, W	-500 W	Hanpsxennecetkn, B -500 Dissipation, W:
anode [1]	50	MMyckoBOM TOKHakana, A 50 anode 3.5-10°
anode [2]	3.5	MMyckoBOM TOKHakana, A 50 anode 3.5-10°
anode [3]	-10	MMyckoBOM TOKHakana, A 50 anode 3.5-10°
grid	50	Paccensaeman MOWHOCTb, BT: grid ... 50
Temperature, °C	50 C	COTKOM ..ottt it i 50 Temperature, °C:
Anode Characteristic Curves	3	Averaged Anode Characteristic Curves: 3veragee Characteristic Curves: