

ELECTRONIC TUBE REFERENCE

GM5B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Russian metal-ceramic power triode for series anode-modulation service, using forced-air cooling.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	2200 V
<i>Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.</i>	

The GM-5B triode is used in series anode-modulation service. It has an indirectly heated oxide-coated cathode, metal-ceramic envelope, and forced-air 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
anode modulation [1]	5	MoaynstopHbin Tpuog MM-5B npegHasHaueHans The 'M-5B triode is used in series anode modulation
anode modulation [2]	5	MoaynstopHbin Tpuog MM-5B npegHasHaueHans The 'M-5B triode is used in series anode modulation
grid [1]	1	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [2]	2	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [3]	4	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [4]	6	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [5]	7	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [6]	8	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
grid [7]	3	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [8]	1	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [9]	2	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [10]	4	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [11]	6	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [12]	7	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [13]	8	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [14]	3	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
grid [15]	5	1,C-ceTKka; 2, 4, 6, 7, 8, - Katoa U nogorpesarens; 3 — nogorpesarens; 1, C ~grid; 2, 4, 6, 7, 8 - cathode and heater; 3 — heater; 5 — vacant; C — grid
anode; I — key; Il — contact surfaces	5	5 - cBob6ogHbIN; C — (KONbUEBOW BLIBOA) — ceTKA; [— KNoY; A — aHog; i - (ring); A — anode; I — key; Il — contact surfaces
temperature, °C [1]	-10 C	YCKOPEHUEM, M/C% . . . Ambient temperature, °C . . . -10t0 +55
temperature, °C [2]	55 C	YCKOPEHUEM, M/C% . . . Ambient temperature, °C . . . -10t0 +55
voltage	600 V	HanpsixeHue cmelleHns oTpuyaTenbHoe Negative bias voltage (at anode voltage 600 V,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [1]	600 mA	(npu Hanpsxxennnn aHoga 600 B, Toke anode current 500 mA), absolute value, V 18-42
current [2]	500 mA	(npu Hanpsxxennnn aHoga 600 B, Toke anode current 500 mA), absolute value, V 18-42
current [3]	18 mA	(npu Hanpsxxennnn aHoga 600 B, Toke anode current 500 mA), absolute value, V 18-42
current [4]	-42 mA	(npu Hanpsxxennnn aHoga 600 B, Toke anode current 500 mA), absolute value, V 18-42
voltage [1]	500 V	aHoga 500 MA), abcontoTHoe 3HadeHune, B 18-42 Negative cutoff voltage (at andoe voltage 2,000 V.
voltage [2]	3 V	aHoga 500 MA), abcontoTHoe 3HadeHune, B 18-42 Negative cutoff voltage (at andoe voltage 2,000 V.
voltage [3]	18 V	aHoga 500 MA), abcontoTHoe 3HadeHune, B 18-42 Negative cutoff voltage (at andoe voltage 2,000 V.
voltage [4]	-42 V	aHoga 500 MA), abcontoTHoe 3HadeHune, B 18-42 Negative cutoff voltage (at andoe voltage 2,000 V.
voltage [5]	2000 V	aHoga 500 MA), abcontoTHoe 3HadeHune, B 18-42 Negative cutoff voltage (at andoe voltage 2,000 V.
current [1]	3 uA	HanpsxeHue 3anvpanus otTpuuartensHoe anode current 5 mA), absolute value, V, at most ... 410
current [2]	5 uA	HanpsxeHue 3anvpanus otTpuuartensHoe anode current 5 mA), absolute value, V, at most ... 410
current [3]	410 uA	HanpsxeHue 3anvpanus otTpuuartensHoe anode current 5 mA), absolute value, V, at most ... 410
voltage [1]	2000 A	(npu Hanpsbxerun aHoga 2000 B, Toxke Anode current (at anode voltage 300 V.
voltage [2]	300 A	(npu Hanpsbxerun aHoga 2000 B, Toxke Anode current (at anode voltage 300 V.
anode voitage [1]	410 uS	B,Hebonee 410 Mutual conductance (at anode voitage 600 V,
anode voitage [2]	600 uS	B,Hebonee 410 Mutual conductance (at anode voitage 600 V,
current [1]	500 mA	Tok aHoga (Npu HanpsHKeHnn aHoga anode current 500 mA), mA/V ... 12-28

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
current [2]	12 mA	Tok aHoga (Npu HanpsHKeHnn aHoga anode current 500 mA), mA/V ... 12-28
current [3]	-28 mA	Tok aHoga (Npu HanpsHKeHnn aHoga anode current 500 mA), mA/V ... 12-28
Interelectrode capacitance, pF [1]	300 pF	300 B, HanpsHxeHun ceTku pasHom 0 B), Interelectrode capacitance, pF:
Interelectrode capacitance, pF [2]	0 pF	300 B, HanpsHxeHun ceTku pasHom 0 B), Interelectrode capacitance, pF:
input,atmost	470	MA,HE MEHEE 470 input,atmost
voltage, V [1]	6 V	HAKAMNA .o 6.0-6.6 Peak anode voltage, V 2,200
voltage, V [2]	-6.6 V	HAKAMNA .o 6.0-6.6 Peak anode voltage, V 2,200
voltage, V [3]	2200 V	HAKAMNA .o 6.0-6.6 Peak anode voltage, V 2,200
grid voitage (DC), absolute value, V [1]	3	aHoAa, NUKOBOE 3HAYEHWE 2200 Negative grid voitage (DC), absolute value, V 410
grid voitage (DC), absolute value, V [2]	2200	aHoAa, NUKOBOE 3HAYEHWE 2200 Negative grid voitage (DC), absolute value, V 410
grid voitage (DC), absolute value, V [3]	410	aHoAa, NUKOBOE 3HAYEHWE 2200 Negative grid voitage (DC), absolute value, V 410
current (peak value), mA [1]	3 mA	(abCONIOTHOE 3HAYEHNe) 410 Cathode current (peak value), mA
current (peak value), mA [2]	410 mA	(abCONIOTHOE 3HAYEHNe) 410 Cathode current (peak value), mA
anode [1]	250	.. 250 anode 300
anode [2]	300	.. 250 anode 300
grid [1]	3	KatoAa. MMKOBOE 3HAYEHUE 500 grid .. 1.0
grid [2]	500	KatoAa. MMKOBOE 3HAYEHUE 500 grid .. 1.0
grid [3]	1	KatoAa. MMKOBOE 3HAYEHUE 500 grid .. 1.0
Temperature at the hottest point of envelope, °C	200 C	PaccenBaemas MOWHOCTL, BT: Temperature at the hottest point of envelope, °C . . . 200



TUBE TINKER

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