



ELECTRONIC TUBE REFERENCE

GM3B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Russian power triode for low-frequency low-distortion cathode-coupled amplifier service in electronic or 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	6000 V
<i>Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.</i>	

The GM-3B triode is used in low-frequency low-distortion cathode-coupled amplifier circuits in RF equipment and is forced-air cooled.

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
frequency no distort [1]	3 Hz	eHepaTopHbIn MoaynsTopHbn Tpuog I'M-3b npeg- The 'M-36 triode is used in low-frequency no distort-
frequency no distort [2]	36 Hz	eHepaTopHbIn MoaynsTopHbn Tpuog I'M-3b npeg- The 'M-36 triode is used in low-frequency no distort-
temperature, °C [1]	-10 C	Ambient temperature, °C -10to0 +55 g WITH LEADS
temperature, °C [2]	55 C	Ambient temperature, °C -10to0 +55 g WITH LEADS
grid [1]	1	1, 3 - cathode; 2, 4 —grid;
grid [2]	3	1, 3 - cathode; 2, 4 —grid;
grid [3]	2	1, 3 - cathode; 2, 4 —grid;
grid [4]	4	1, 3 - cathode; 2, 4 —grid;
Filament voltage, V [1]	63	HanpskeHne vakana, B 6,3 Filament voltage, V 6.3
Filament voltage, V [2]	6.3	HanpskeHne vakana, B 6,3 Filament voltage, V 6.3
Mutual conductance, mA/V [1]	17 mA/V	KpyTuana xapaktepuctukn, MA/B 17-27 Mutual conductance, mA/V 17-27
Mutual conductance, mA/V [2]	-27 mA/V	KpyTuana xapaktepuctukn, MA/B 17-27 Mutual conductance, mA/V 17-27
Mutual conductance, mA/V [3]	17 mA/V	KpyTuana xapaktepuctukn, MA/B 17-27 Mutual conductance, mA/V 17-27
Mutual conductance, mA/V [4]	-27 mA/V	KpyTuana xapaktepuctukn, MA/B 17-27 Mutual conductance, mA/V 17-27
Gain coefficient [1]	7	KoadbcbuumeHTycunenms 7-11 Gain coefficient 7-11

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Gain coefficient [2]	-11	KoadbcbuumeHTycunenms 7-11 Gain coefficient 7-11
Gain coefficient [3]	7	KoadbcbuumeHTycunenms 7-11 Gain coefficient 7-11
Gain coefficient [4]	-11	KoadbcbuumeHTycunenms 7-11 Gain coefficient 7-11
voltage [1]	1.5 kV	npu HanpsxeHun aHoga 1.5«B 2,4-3,6 at anode voltage 1.5kV
voltage [2]	24 kV	npu HanpsxeHun aHoga 1.5«B 2,4-3,6 at anode voltage 1.5kV
voltage [3]	-36 kV	npu HanpsxeHun aHoga 1.5«B 2,4-3,6 at anode voltage 1.5kV
voltage [4]	1.5 kV	npu HanpsxeHun aHoga 1.5«B 2,4-3,6 at anode voltage 1.5kV
voltage	3 kV	PN HanNP sXXeHun aHOAA B UMNYNbCe at peak anode voltage 3kV
voltage [1]	6 kV	kB . . 6-10 Cutoff voitage (at anode voltage 4.5 kV,
voltage [2]	-10 kV	kB . . 6-10 Cutoff voitage (at anode voltage 4.5 kV,
voltage [3]	4.5 kV	kB . . 6-10 Cutoff voitage (at anode voltage 4.5 kV,
current	500 mA	Hanpsixkexue oTcedku (Npu HaNpsH>KeHUN anode current 0.5 A), V, at most
Interelectrode capacitance, pF [1]	45 pF	aHoga 4,5 «B, Toke anopa 0,5 A), B, Interelectrode capacitance, pF:
Interelectrode capacitance, pF [2]	5 pF	aHoga 4,5 «B, Toke anopa 0,5 A), B, Interelectrode capacitance, pF:
input,atmost	600	Hebonee 600 input,atmost
output, at most	6	MexanekTpogHbie emkocTw, nd, He 6onee: output, at most
voltage, kV	6 kV	Hanpsxenne avopga, kB 6 Anode voltage, kV
anode [1]	75	aHOZOM 7,5-10° anode
anode [2]	-10	aHOZOM 7,5-10° anode
grid	300	CETKOM o v i i t 300 grid

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Temperature at envelope, stem and seals, °C [1]	60 C	Temnepatypa 060N04KKN, HOXKU U cnaes, °C 150 Temperature at envelope, stem and seals, °C
Temperature at envelope, stem and seals, °C [2]	4 C	Temnepatypa 060N04KKN, HOXKU U cnaes, °C 150 Temperature at envelope, stem and seals, °C
Temperature at envelope, stem and seals, °C [3]	150 C	Temnepatypa 060N04KKN, HOXKU U cnaes, °C 150 Temperature at envelope, stem and seals, °C
Anode Characteristic Curves: U; =	6.3	Averaged Anode Characteristic Curves: U; = 6.3 V:
grid; CIAX VAKX =	32	anode-grid; CIAX VAKX =32
grid [1]	0	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [2]	2	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [3]	3	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [4]	4	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [5]	5	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [6]	6	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [7]	-1000	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [8]	-800	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [9]	-600	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [10]	-400	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [11]	-200	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [12]	0	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [13]	200	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400
grid [14]	400	0 2 3 4 5 6Vaxkv T grid -1000-800-600-400-200 0 200 400

TUBE TINKER

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and their source documents.

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