



ELECTRONIC TUBE REFERENCE

GK9P

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Soviet power triode designed specifically for RF power amplification. Available manufacturer data confirms a heavy directly heated transmitting structure, but the source does not support sufficiently reliable detailed ratings for a more numerical description.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	8.3 V / —	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode

No fixed ratings recorded.

Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table.

The 'K-9IN triode is used for RF power amplifi- L Cathode: carbonized thoriated tungsten. Envelope: glass-to-metal. Cooling: evaporation for anode, forced air for en-

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 amplifi- L	9 W	The 'K-9IN triode is used for RF power amplifi- L
cathode [1]	1	A - anode; C - grid; 1, 2, 3, 4 - cathode;
cathode [2]	2	A - anode; C - grid; 1, 2, 3, 4 - cathode;
cathode [3]	3	A - anode; C - grid; 1, 2, 3, 4 - cathode;
cathode [4]	4	A - anode; C - grid; 1, 2, 3, 4 - cathode;
temperature, °C - [1]	-10 C	TemnepaTypa Okpy>atowen cpeabl, °C —10~+55 Ambient temperature, °C —10to +55
temperature, °C - [2]	55 C	TemnepaTypa Okpy>atowen cpeabl, °C —10~+55 Ambient temperature, °C —10to +55
temperature, °C - [3]	-10 C	TemnepaTypa Okpy>atowen cpeabl, °C —10~+55 Ambient temperature, °C —10to +55
temperature, °C - [4]	55 C	TemnepaTypa Okpy>atowen cpeabl, °C —10~+55 Ambient temperature, °C —10to +55
voltage, V cooin.t	8.3 V	AnexTpuyeckue napameTpbl Filament voltage, V cooin.t. 8.3
anode Vo“age [1]	83 uS	 8,3 Mutual conductance (at anode Vo“age 1kVand
anode Vo“age [2]	1 uS	 8,3 Mutual conductance (at anode Vo“age 1kVand
currents [1]	120 mA	Tok Hakana, A e 120-150 anode currents 2 and 12 A)' mAYN ... 42-58
currents [2]	-150 mA	Tok Hakana, A e 120-150 anode currents 2 and 12 A)' mAYN ... 42-58

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
currents [3]	2 mA	Tok Hakana, A e 120-150 anode currents 2 and 12 A)' mAYN ... 42-58
currents [4]	12 mA	Tok Hakana, A e 120-150 anode currents 2 and 12 A)' mAYN ... 42-58
currents [5]	42 mA	Tok Hakana, A e 120-150 anode currents 2 and 12 A)' mAYN ... 42-58
currents [6]	-58 mA	Tok Hakana, A e 120-150 anode currents 2 and 12 A)' mAYN ... 42-58
voltages	4 V	KpyTuana xapakTepucTUKi (Mpn HanpspkeHun Gain coefficient (at anode voltages 4 and
current2 [1]	1 A	aHopa 1 kB, TokaxaHoga2n12A), 8kV and anode current2.5A), 24-32
current2 [2]	2 A	aHopa 1 kB, TokaxaHoga2n12A), 8kV and anode current2.5A), 24-32
current2 [3]	8 A	aHopa 1 kB, TokaxaHoga2n12A), 8kV and anode current2.5A), 24-32
current2 [4]	5 A	aHopa 1 kB, TokaxaHoga2n12A), 8kV and anode current2.5A), 24-32
current2 [5]	24 A	aHopa 1 kB, TokaxaHoga2n12A), 8kV and anode current2.5A), 24-32
current2 [6]	-32 A	aHopa 1 kB, TokaxaHoga2n12A), 8kV and anode current2.5A), 24-32
voltage, V, max [1]	42 V	MA/B .e 42-58 Negative cutoff voltage, V, max.:
voltage, V, max [2]	-58 V	MA/B .e 42-58 Negative cutoff voltage, V, max.:
anode	10 kV	KoadhdbmupeHT ycunexus (npu HanpspkeHnsax atanode voltage 10 kV and anode
anode	12 kV	Hanps»xeHxne aannpanms oTpuuarensHoe, B, at anode voltage 12kV and anode
Interelectrode capacitance, pF, max	10 pF	npuv Hanps>xeHun aHoga 10 kB, Interelectrode capacitance, pF, max.:
output [1]	12	npv Hanps>keHun aHoaa 12 kB, output ... 2
output [2]	2	npv Hanps>keHun aHoaa 12 kB, output ... 2
filament voltage [1]	6 W	MexanekTpodHble emkocTu, nd, He 6onee: Output power (at filament voltage 6.3 V and
filament voltage [2]	6.3 W	MexanekTpodHble emkocTu, nd, He 6onee: Output power (at filament voltage 6.3 V and
voltage [1]	80 kV	ence i en e eaeaeanes 80 anode voltage 10 kV), kW, atleast 13

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [2]	10 kV	ence i en e eaeaeanes 80 anode voltage 10 kV), kW, atleast 13
voltage [3]	13 kV	ence i en e eaeaeanes 80 anode voltage 10 kV), kW, atleast 13
voltage (DC), kV [1]	12 kV	Hanpsbkenue aHoga (noctoanHoe), kB 12 Anode voltage (DC), kV 12
voltage (DC), kV [2]	12 kV	Hanpsbkenue aHoga (noctoanHoe), kB 12 Anode voltage (DC), kV 12
voltage, kV [1]	1 kV	HanpsixkeHue cmeweHns otpularensHoe, kB 1 Negative bias voltage, kV 1
voltage, kV [2]	1 kV	HanpsixkeHue cmeweHns otpularensHoe, kB 1 Negative bias voltage, kV 1
current, A [1]	250 A	MycKOBOWM TOKHakana, A 250 Filament startingcurrent, A 250
current, A [2]	250 A	MycKOBOWM TOKHakana, A 250 Filament startingcurrent, A 250
grid [1]	7	£ 7 500 grid ... 500
grid [2]	500	£ 7 500 grid ... 500
grid [3]	500	£ 7 500 grid ... 500
frequency, MHz [1]	2 MHz	Paboyasvactota, MMy 2 Operating frequency, MHz 2
frequency, MHz [2]	2 MHz	Paboyasvactota, MMy 2 Operating frequency, MHz 2
Temperature at envelope, stem and seals, °C [1]	605104 C	TemnepaTtypa 0605104KM, HOXKK U criae., °C 150 Temperature at envelope, stem and seals, °C 150
Temperature at envelope, stem and seals, °C [2]	150 C	TemnepaTtypa 0605104KM, HOXKK U criae., °C 150 Temperature at envelope, stem and seals, °C 150
Temperature at envelope, stem and seals, °C [3]	150 C	TemnepaTtypa 0605104KM, HOXKK U criae., °C 150 Temperature at envelope, stem and seals, °C 150