

ELECTRONIC TUBE REFERENCE

GK5A

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power RF triode for oscillator, amplifier, or transmitting service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	18 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-5A triode is used for amplification or genera- Cathode: directly heated, carbonized thoriated tungsten. Envelope: glass-to-metal. Cooling: forced (water for anode, air for stem, 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
cathode [1]	12	1,2, 3, 4 - cathode
cathode [2]	3	1,2, 3, 4 - cathode
cathode [3]	4	1,2, 3, 4 - cathode
amplification or genera	5	The 'K-5A triode is used for amplification or genera-
temperature, °C [1]	-10 C	Temnepatypa okpy>xatowew cpegl, °C -10-+55 Ambient temperature, °C —101o +55
temperature, °C [2]	55 C	Temnepatypa okpy>xatowew cpegl, °C -10-+55 Ambient temperature, °C —101o +55
temperature, °C [3]	-101 C	Temnepatypa okpy>xatowew cpegl, °C -10-+55 Ambient temperature, °C —101o +55
temperature, °C [4]	55 C	Temnepatypa okpy>xatowew cpegl, °C -10-+55 Ambient temperature, °C —101o +55
voltage	10 uS	KpyTuana xapaktepucTiki (NPy HaNps>XeHu aHoAa Mutual conductance (at anode voltage 10kV and
currents [1]	10 mA	10 kB, Tokax aHoga6 M8 A),MA/B 70- 110 anode currents 6and 8 A), mA/V 70- 110
currents [2]	70 mA	10 kB, Tokax aHoga6 M8 A),MA/B 70- 110 anode currents 6and 8 A), mA/V 70- 110
currents [3]	-110 mA	10 kB, Tokax aHoga6 M8 A),MA/B 70- 110 anode currents 6and 8 A), mA/V 70- 110

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
currents [4]	6 mA	10 k Ω , Tokax aHoga6 M8 A),MA/B 70-110 anode currents 6and 8 A), mA/V 70-110
currents [5]	8 mA	10 k Ω , Tokax aHoga6 M8 A),MA/B 70-110 anode currents 6and 8 A), mA/V 70-110
currents [6]	70 mA	10 k Ω , Tokax aHoga6 M8 A),MA/B 70-110 anode currents 6and 8 A), mA/V 70-110
currents [7]	-110 mA	10 k Ω , Tokax aHoga6 M8 A),MA/B 70-110 anode currents 6and 8 A), mA/V 70-110
voltages [1]	8 kV	KoadcbuumeHT yeunenms (npv HanpsiXxeHnax aHoaa Gain coefficient (at anode voltages 8 and 10 kV
voltages [2]	10 kV	KoadcbuumeHT yeunenms (npv HanpsiXxeHnax aHoaa Gain coefficient (at anode voltages 8 and 10 kV
Interelectrode capacitance, pF, at most	6 pF	MexonekTpoaHbie emkocTy, Nd, He 6onee: Interelectrode capacitance, pF, at most:
input [1]	220	BXOAHASA ..o iit i nnie it ii e 220 input 220
input [2]	220	BXOAHASA ..o iit i nnie it ii e 220 input 220
output [1]	5	BBIXOAHAS . .o ovtn it ie e et 5 output 5
output [2]	5	BBIXOAHAS . .o ovtn it ie e et 5 output 5
anode modulation [1]	3	B UMNynbce (NKosoe 3HageHune npn 100 % peak value at 100-% anode modulation 20
anode modulation [2]	100	B UMNynbce (NKosoe 3HageHune npn 100 % peak value at 100-% anode modulation 20
anode modulation [3]	100	B UMNynbce (NKosoe 3HageHune npn 100 % peak value at 100-% anode modulation 20
anode modulation [4]	20	B UMNynbce (NKosoe 3HageHune npn 100 % peak value at 100-% anode modulation 20
current, A [1]	20 A	QHOAHON MOAYNAUMM) oo 20 Filament startingcurrent, A 863
current, A [2]	863 A	QHOAHON MOAYNAUMM) oo 20 Filament startingcurrent, A 863

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Dissipation, kW	863 kW	MyckoBOM TOKHaKana, A cuvenvnnen... 863 Dissipation, kW:
anode e	200	PaccenBaemas MowHOCTb, KBT: anode e 200
frequency, MHz [1]	10 MHz	COTKOM . oottt ettt i 10 Operating frequency, MHz 26
frequency, MHz [2]	26 MHz	COTKOM . oottt ettt i 10 Operating frequency, MHz 26
Temperature at envelope and seals, °C [1]	26 C	Pabouasyactota, My 26 Temperature at envelope and seals, °C 150
Temperature at envelope and seals, °C [2]	150 C	Pabouasyactota, My 26 Temperature at envelope and seals, °C 150