



ELECTRONIC TUBE REFERENCE

GK9B

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Russian directly heated forced-air-cooled RF power triode designed for outputs up to approximately 30 kW at frequencies to about 2 MHz, serving large communications and industrial RF power amplifiers.

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

SECTION 1 Triode

No fixed ratings recorded.

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

The 'K-9b triode is a RF power amplifier with an out- Cathode: directly heated, carbonized thoriated tungsten. Envelope: glass-to-metal. Cooling: forced air.

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
grid [1]	12	1,2, 3, 4— cathode; C-grid;
grid [2]	3	1,2, 3, 4— cathode; C-grid;
grid [3]	4	1,2, 3, 4— cathode; C-grid;
power amplifier with an out	9 W	The 'K-9b triode is a RF power amplifier with an out-
power of up to [1]	30 kW	put power of up to 30 kW at frequencies up to 2 MHz, de-
power of up to [2]	2 kW	put power of up to 30 kW at frequencies up to 2 MHz, de-
temperature, °C [1]	-10 C	Temnepatypa okpy»atowen cpegpl, °C —10—+455 Ambient temperature, °C —10to +55
temperature, °C [2]	455 C	Temnepatypa okpy»atowen cpegpl, °C —10—+455 Ambient temperature, °C —10to +55
temperature, °C [3]	-10 C	Temnepatypa okpy»atowen cpegpl, °C —10—+455 Ambient temperature, °C —10to +55
temperature, °C [4]	55 C	Temnepatypa okpy»atowen cpegpl, °C —10—+455 Ambient temperature, °C —10to +55
anode	1 uS	pi p! (Npyu HanpsXXeHnu aHoga Mutual conductance (at anode voltage 1 kV and anode
voltages [1]	4 kV	KoathdpuupmenT yeunenens (Npn HanpsikeHusix aHoga Gain coefficient (at anode voltages 4 and 8 kV and
voltages [2]	8 kV	KoathdpuupmenT yeunenens (Npn HanpsikeHusix aHoga Gain coefficient (at anode voltages 4 and 8 kV and

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [1]	3 kV	Hanpsixehue 3anupaxus oTpuLaTeneHoe (npu Negative cutoff voltage (at anode voltage 10 kV and
voltage [2]	10 kV	Hanpsixehue 3anupaxus oTpuLaTeneHoe (npu Negative cutoff voltage (at anode voltage 10 kV and
current [1]	10 A	Hanpsbkexun aHona 10 kB, Toke aHopa 0,2 A), B, anode current 0.2 A), V _{atmost} 420
current [2]	2 A	Hanpsbkexun aHona 10 kB, Toke aHopa 0,2 A), B, anode current 0.2 A), V _{atmost} 420
current [3]	200 mA	Hanpsbkexun aHona 10 kB, Toke aHopa 0,2 A), B, anode current 0.2 A), V _{atmost} 420
current [4]	420 A	Hanpsbkexun aHona 10 kB, Toke aHopa 0,2 A), B, anode current 0.2 A), V _{atmost} 420
Interelectrode capacitance, pF, max	420 pF	HEBOMEE i'i' ettt 420 Interelectrode capacitance, pF, max.:
output [1]	80	BXOOHAR . . oottt ittt et 80 output 2
output [2]	2	BXOOHAR . . oottt ittt et 80 output 2
voltage (DC),kV [1]	12 kV	Hanpsixehwe aHoga (noctosiHHoe), KB 12 Anode voltage (DC),kV 12
voltage (DC),kV [2]	12 kV	Hanpsixehwe aHoga (noctosiHHoe), KB 12 Anode voltage (DC),kV 12
voltage, A [1]	250 V	MycKOBOM TOK Hakana, A 250 Filament starting voltage, A 250
voltage, A [2]	250 V	MycKOBOM TOK Hakana, A 250 Filament starting voltage, A 250
frequency, MHz [1]	2 MHz	Pa6oyasiyactota, MMy 2 Operating frequency, MHz 2
frequency, MHz [2]	2 MHz	Pa6oyasiyactota, MMy 2 Operating frequency, MHz 2
Temperature at envelope, stem and seals, °C [1]	60 °C	TemnepaTypa 060M104KH, HOXKKKW U cnaes, °C 150 Temperature at envelope, stem and seals, °C 150
Temperature at envelope, stem and seals, °C [2]	4 °C	TemnepaTypa 060M104KH, HOXKKKW U cnaes, °C 150 Temperature at envelope, stem and seals, °C 150

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Temperature at envelope, stem and seals, °C [3]	150 C	TemnepaTypa 060M104KH, HOXKKKW U cnaes, °C 150 Temperature at envelope, stem and seals, °C 150
Temperature at envelope, stem and seals, °C [4]	150 C	TemnepaTypa 060M104KH, HOXKKKW U cnaes, °C 150 Temperature at envelope, stem and seals, °C 150
temperature at the hottest point, °C [1]	60 C	TemnepaTypa 060/104KW B Haubonee ropsHen Envelope temperature at the hottest point, °C 250
temperature at the hottest point, °C [2]	104 C	TemnepaTypa 060/104KW B Haubonee ropsHen Envelope temperature at the hottest point, °C 250
temperature at the hottest point, °C [3]	250 C	TemnepaTypa 060/104KW B Haubonee ropsHen Envelope temperature at the hottest point, °C 250
anode	451	451 I'L — __ grid — _ _ _ grid-anode

TUBE TINKER

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