



ELECTRONIC TUBE REFERENCE

GK71

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Russian transmitting pentode designed for RF generation and power amplification. Its carbonized thoriated-tungsten cathode and power construction support substantial radio-frequency output service.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Pentode

No fixed ratings recorded.

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

The M'K-71 pentode is used for generation and power res 2 1 - runb3a Lokona; 2 — Cathode: carbonized thoriated tungsten. 1 - base sleeve; 2 - Envelope: glass, with base. - @4 7010 N

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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
power res [1]	71 W	The M'K-71 pentode is used for generation and power res 2 1 - runb3a Lokona; 2 —
power res [2]	2 W	The M'K-71 pentode is used for generation and power res 2 1 - runb3a Lokona; 2 —
power res [3]	1 W	The M'K-71 pentode is used for generation and power res 2 1 - runb3a Lokona; 2 —
power res [4]	2 W	The M'K-71 pentode is used for generation and power res 2 1 - runb3a Lokona; 2 —
amplification in stationary RF equipment. e [1]	4	amplification in stationary RF equipment. e 4 - ceTka BTOpas; 5 —
amplification in stationary RF equipment. e [2]	5	amplification in stationary RF equipment. e 4 - ceTka BTOpas; 5 —
Cathode: carbonized thoriated tungsten [1]	1	Cathode: carbonized thoriated tungsten. 1 - base sleeve; 2 -
Cathode: carbonized thoriated tungsten [2]	2	Cathode: carbonized thoriated tungsten. 1 - base sleeve; 2 -
cathode [1]	1	1TT 1 cathode; 3 - none;
cathode [2]	1	1TT 1 cathode; 3 - none;
cathode [3]	3	1TT 1 cathode; 3 - none;
grid [1]	4	4-grid2;5-grid 1;
grid [2]	5	4-grid2;5-grid 1;
grid [3]	1	4-grid2;5-grid 1;
cathode [1]	6	6 — grid 3; 7 - cathode;
cathode [2]	3	6 — grid 3; 7 - cathode;
cathode [3]	7	6 — grid 3; 7 - cathode;
anode-top lead	10	+010 A - anode-top lead;

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
temperature, °C [1]	-10 C	.. Ambient temperature, °C -10to +55
temperature, °C [2]	55 C	.. Ambient temperature, °C -10to +55
frequency, Hz [1]	16 Hz	BvbpatmorHble Harpysku: frequency, Hz 16—22
frequency, Hz [2]	-22 Hz	BvbpatmorHble Harpysku: frequency, Hz 16—22
grid [1]	600 uS	KpyTu3Ha xapakTepucTUKy (NPU Hanps>KeHUsX Mutual conductance (at anode voltage 600 V, grid 2
grid [2]	2 uS	KpyTu3Ha xapakTepucTUKy (NPU Hanps>KeHUsX Mutual conductance (at anode voltage 600 V, grid 2
currents [1]	600 A	aHoga 600 B, sTopown ceTKu 400 B, TpeTben ceTKu voltage 400 V, grid 3 voltage 50 V, anode currents
currents [2]	400 A	aHoga 600 B, sTopown ceTKu 400 B, TpeTben ceTKu voltage 400 V, grid 3 voltage 50 V, anode currents
currents [3]	400 A	aHoga 600 B, sTopown ceTKu 400 B, TpeTben ceTKu voltage 400 V, grid 3 voltage 50 V, anode currents
currents [4]	3 A	aHoga 600 B, sTopown ceTKu 400 B, TpeTben ceTKu voltage 400 V, grid 3 voltage 50 V, anode currents
currents [5]	50 A	aHoga 600 B, sTopown ceTKu 400 B, TpeTben ceTKu voltage 400 V, grid 3 voltage 50 V, anode currents
voltage [1]	1 V	KoadhpnymeHT ycneHust no nepcneTke Gain coefficient (grid 1-grid 2) (at anode voltage 750 V,
voltage [2]	2 V	KoadhpnymeHT ycneHust no nepcneTke Gain coefficient (grid 1-grid 2) (at anode voltage 750 V,
voltage [3]	750 V	KoadhpnymeHT ycneHust no nepcneTke Gain coefficient (grid 1-grid 2) (at anode voltage 750 V,
voltage [1]	2 V	OTHOCUTENbHO BTOPOB CETKW (NPU HANPSHKEHUSAX grid 2 voltages 300 and 400 V, grid 3 voltage 50 V,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [2]	300 V	OTHOCUTENbHO BTOPOW CETKW (NPU HANPSHKEHUSAX grid 2 voltages 300 and 400 V, grid 3 voltage 50 V,
voltage [3]	400 V	OTHOCUTENbHO BTOPOW CETKW (NPU HANPSHKEHUSAX grid 2 voltages 300 and 400 V, grid 3 voltage 50 V,
voltage [4]	3 V	OTHOCUTENbHO BTOPOW CETKW (NPU HANPSHKEHUSAX grid 2 voltages 300 and 400 V, grid 3 voltage 50 V,
voltage [5]	50 V	OTHOCUTENbHO BTOPOW CETKW (NPU HANPSHKEHUSAX grid 2 voltages 300 and 400 V, grid 3 voltage 50 V,
input [1]	14	MexanexkTpoaHbie eMKOCTH, Nd: input 14-22
input [2]	-22	MexanexkTpoaHbie eMKOCTH, Nd: input 14-22
output [1]	14	BXOAHAS .o vit ittt e 14-22 output 10-24
output [2]	-22	BXOAHAS .o vit ittt e 14-22 output 10-24
output [3]	10	BXOAHAS .o vit ittt e 14-22 output 10-24
output [4]	-24	BXOAHAS .o vit ittt e 14-22 output 10-24
voltage [1]	15 W	 0,15 Output power (at 5—200 MHz, anode voltage 1.5kV,
voltage [2]	5 W	 0,15 Output power (at 5—200 MHz, anode voltage 1.5kV,
voltage [3]	-200 W	 0,15 Output power (at 5—200 MHz, anode voltage 1.5kV,
voltage [4]	1.5 W	 0,15 Output power (at 5—200 MHz, anode voltage 1.5kV,
voltage– [1]	2 V	MowiHOCTb BbixogHasA (MPU HANPSHKEHUSAX aHoAa grid 2 voltage 40Q V, grid 1 voltage—100 V,
voltage– [2]	40 V	MowiHOCTb BbixogHasA (MPU HANPSHKEHUSAX aHoAa grid 2 voltage 40Q V, grid 1 voltage—100 V,
voltage– [3]	1 V	MowiHOCTb BbixogHasA (MPU HANPSHKEHUSAX aHoAa grid 2 voltage 40Q V, grid 1 voltage—100 V,
voltage– [4]	100 V	MowiHOCTb BbixogHasA (MPU HANPSHKEHUSAX aHoAa grid 2 voltage 40Q V, grid 1 voltage—100 V,

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
voltage [1]	15 V	1,5 kB, BTOpo# ceTkn 400 B, nepeovi ceTkn—100 B, grid 3 voltage 50 V), W, atleast 200
voltage [2]	400 V	1,5 kB, BTOpo# ceTkn 400 B, nepeovi ceTkn—100 B, grid 3 voltage 50 V), W, atleast 200
voltage [3]	100 V	1,5 kB, BTOpo# ceTkn 400 B, nepeovi ceTkn—100 B, grid 3 voltage 50 V), W, atleast 200
voltage [4]	3 V	1,5 kB, BTOpo# ceTkn 400 B, nepeovi ceTkn—100 B, grid 3 voltage 50 V), W, atleast 200
voltage [5]	50 V	1,5 kB, BTOpo# ceTkn 400 B, nepeovi ceTkn—100 B, grid 3 voltage 50 V), W, atleast 200
voltage [6]	200 V	1,5 kB, BTOpo# ceTkn 400 B, nepeovi ceTkn—100 B, grid 3 voltage 50 V), W, atleast 200
anode Uy=	20	anode Uy=20V;Ugp
Anode Characteristic Curves [1]	20	AHOACM (Pa max); Uy = 20 B; Ugz = 0,4 KB; Ugs = 50 B Averaged Grid-Anode Characteristic Curves:
Anode Characteristic Curves [2]	4	AHOACM (Pa max); Uy = 20 B; Ugz = 0,4 KB; Ugs = 50 B Averaged Grid-Anode Characteristic Curves:
Anode Characteristic Curves [3]	50	AHOACM (Pa max); Uy = 20 B; Ugz = 0,4 KB; Ugs = 50 B Averaged Grid-Anode Characteristic Curves:
Anode Characteristics: Ur= [1]	20	Averaged Anode Characteristics: Ur=20V;Up = 04kV;Uy; =50V
Anode Characteristics: Ur= [2]	4	Averaged Anode Characteristics: Ur=20V;Up = 04kV;Uy; =50V
Anode Characteristics: Ur= [3]	50	Averaged Anode Characteristics: Ur=20V;Up = 04kV;Uy; =50V
Grid [1]	140	140 Averaged Anode-Grid 2 Characteristic Curves:
Grid [2]	2	140 Averaged Anode-Grid 2 Characteristic Curves:
Grid Characteristic Curves [1]	0	%0 N 880' """"] Averaged Grid Characteristic Curves:
Grid Characteristic Curves [2]	880	%0 N 880' """"] Averaged Grid Characteristic Curves:

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode Ch: teristic	2	2 Anode Ch: teristic
grid	2	grid 2

TUBE TINKER

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and their source documents.

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