

Russian high-frequency pentode with an extended control characteristic and enhanced reliability construction. Designed for RF voltage amplification, it supports controlled-gain operation in radio-electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	450000 Ω
TRANSCONDUCTANCE	0.0044 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	195 V
MAXIMUM CATHODE CURRENT	20 mA
Values promoted from the complete filename-matched Russian entry only.	

The 6KA4IT-EB high-frequency pentode with an XapaKTepUCTYKONW TpeAHa3HA4YeH IJisl YCHJICHMS Hanps- extended characteristic has been designed for h.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Russian

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X RUSSIAN

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	19 mA	@ 19max
Source symbol S	58 mA	S58max
Published electrical parameter	3 mA	§3max
Source symbol grid	3 A	I — grid 1; 2 — cathode, grid 3 and screen; 3 — heater;
Source symbol AHaNa3oHE	4 A	BuOpaunoHHble Harpy3ku B AHaNa3oHE 4acToOT OT 5 Vibration: at frequencies from 5 to 600 Hz with
Source symbol OT	5 V	BuOpaunoHHble Harpy3ku B AHaNa3oHE 4acToOT OT 5 Vibration: at frequencies from 5 to 600 Hz with
Source symbol to	600 Hz	BuOpaunoHHble Harpy3ku B AHaNa3oHE 4acToOT OT 5 Vibration: at frequencies from 5 to 600 Hz with
Source symbol B0	3 A	TeNbHAas BIIAXHOCTh BO3AyXxa Oo0 98% mpu Temmepatype Relative humidity: up to 98% at up to 40 °C. Ambient
Published electrical parameter	3 A	xo 40 °C. [JasneHne oKpyXarolleid cpeabl 0 3 aT™. pressure: up to 3 atm.
Source symbol to	3 A	xo 40 °C. [JasneHne oKpyXarolleid cpeabl 0 3 aT™. pressure: up to 3 atm.
Source symbol A	1 A	ConpoTUBCHHAE B LENMH KaTOAA A1 ABTOMATHYECKOTO
Resistance	1 V	Bolt —1B),KOM ... 5 Input resistance, at grid 1 voltage —1 V, kOhm §
Transconductance	1 V	Transconductance, cutoff, at grid 1 voltage —20 V, N

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	20 V	Transconductance, cutoff, at grid 1 voltage —20 V, N
Source symbol 00	6 pA	OO6paTHbii TOK CETKH NEPBOii (P HAMPANKEHHY CETKH
Source symbol voltage	-2 V	nmepeost —2B), MKA e =<0,3 Inverse grid 1 current, at grid I voltage -2V, 2A ... =<0.3
Source symbol V,	2 A	nmepeost —2B), MKA e =<0,3 Inverse grid 1 current, at grid I voltage -2V, 2A ... =<0.3
Source symbol RN	300 A	B2 e)1 ϕ: RN 300 anode il 300
Source symbol vvnvnenn.	30 W	BpeMst TOTOBHOCTH, € . vvnvnenn. 30 Warm up period, s 30
Source symbol nepartypa	6 A	Temnepartypa 6aanoHa, °C 160 Bulb temperature, °C 160
Source symbol Ugs	>-05 V	Ugs> -05V
Published electrical parameter	-1 V	10 !! -1V
Published electrical parameter	75 V	; = 75V v[/' =15V
Published electrical parameter	15 V	; = 75V v[/' =15V
Published electrical parameter	50 V	4 1 50V] 6
Published electrical parameter	-2.5 V	-2.5V [-05v
Published electrical parameter	-5 V	-2.5V [-05v
Source symbol A	<25 V	/A <25V
Published electrical parameter	-5 V	YcpenseHnble aHONHBIE XapaKTEPHCTHKH o [-5v
Published electrical parameter	63 V	Un=63V, Ug=~1V f
Published electrical parameter	1 V	Un=63V, Ug=~1V f
Published electrical parameter	6.3 V	Un=6,3V, Ugp=100V
Published electrical parameter	100 V	Un=6,3V, Ugp=100V
Published electrical parameter	927128 V	927128V -

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol S	0 V	S0V
Source symbol TEPACTHKH	3 A	YCPCHHCHHLIC XaPAKTEPACTHKH 3aBACUMOCTH KPYTH3HBI OT Ha-
Published electrical parameter	250 V	Un=6,3V, Ua=250V
Published electrical parameter	1±0 V	24 Ug«1=0V'-0,5V -tV 145V
Published electrical parameter	0.5 V	24 Ug«1=0V'-0,5V -tV 145V
Source symbol tV	145 V	24 Ug«1=0V'-0,5V -tV 145V
Published electrical parameter	2 A	2aan 40 60 80 100 120 140 160 UgV



SOURCE OPERATING CONDITIONS

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1981 Russian Tubes Katsnelson and Larionov

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	10.3 mA	Translated from Russian source; filename-matched entry only
Screen current maximum	5.5 mA	Translated from Russian source; filename-matched entry only
Transconductance	4.4 mA/V	Translated from Russian source; filename-matched entry only
Input resistance at 60 MHz	5 kOhm	Translated from Russian source; filename-matched entry only
Input capacitance	6.4 pF	Translated from Russian source; filename-matched entry only
Output capacitance	6.7 pF	Translated from Russian source; filename-matched entry only

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transfer capacitance maximum	0.0035 pF	Translated from Russian source; filename-matched entry only
Service life minimum	5000 h	Translated from Russian source; filename-matched entry only

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