

Russian high-frequency pentode with extended cutoff characteristic, designed for wideband gain-controlled amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
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	500000 Ω
TRANSCONDUCTANCE	0.0125 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.65 W
MAXIMUM CATHODE CURRENT	20 mA
Promoted values translated from the complete filename-designated Russian entry only.	

The 6K13IT high-frequency pentode with an extended puctukoii 6KI13I1 mpenHasHa4eH LIS HCHOIb3OBAHHS characteristic has been designed for use in wide-band 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
Source symbol Boicoxo	4 A	Boicoxo4acTOTHBIA NEHTON C YIJHHEHHOH XapakTte- The 6K13IT high-frequency pentode with an extended
Source symbol P	22.5 mA	P 22,5max
Published electrical parameter	2 W	2w ——— 8
Source symbol equencies	50 Hz	BubpanuonHsie Harpy3ku B Adana3oHe yactor 50 I'm Vibration: at frequencies 50 Hz with acceleration up
Source symbol Bo	3 A	Bo3ayxa no 98% npu temmepartype o 25 °C. humidity: up to 98% at up to 25 °C.
Source symbol N	200 A	-T2 (0 ¢ R N 200 anode ...l
Published electrical parameter	0 V	CeTKH BTOPOM 0vivtinieiiiinenneennnnnnn 4,5%1,3
Source symbol 00	6 pA	OO6paTHbBil TOK CETKH OEPBOM, MKA =0,5
Source symbol o	6 pA	o6paTHBI Tok cerxn NepBo#, MKA =2 inverse grid 1 current, 4A =2
Source symbol current,	4 A	o6paTHBI Tok cerxn NepBo#, MKA =2 inverse grid 1 current, 4A =2
Source symbol enenbHble	3 pA	IlpenenbHble 3pA9EHs JONYCTHMAEIX Limit Values of Operating
Source symbol BTopoit	650 mA	paccenBaeMas ceTkod BTopoit 0,65 atanode 3
Source symbol S	0.51 W	123 S 0,510 with fixed bias 0.5x103
Published electrical parameter	-1 V	Ugr=-1V t Y Y2711

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	8 A	8 AV Rinini i 1 =25V AWARTIN ,I' I
Source symbol i	1±25 V	8 AV Rinini i 1 =25V AWARTIN ,I' I
Source symbol T	3 V	el el T3V 5 \sf&f-g
Source symbol UgV	2 V	T —=250T] UgV 2 Vv -1 -
Published electrical parameter	6.3 V	YCDCZIHCHHBIC XapaKTCPUCTHKU! Un=6,3V, Ua=200V
Published electrical parameter	200 V	YCDCZIHCHHBIC XapaKTCPUCTHKU! Un=6,3V, Ua=200V
Published electrical parameter	63 V	Un=63V, Ua=200V
Source symbol Ug	2±90 V	Un=6,3V, Ug2=90 V
Published electrical parameter	90 V	Un=6.3V, Ugp =90 V
Source symbol Usp242	150 V	Usp242 150V\[/
Published electrical parameter	10 A	TY) 10 Al
Source symbol N	130 V	L soNA// AHE N 130V A} I/
Source symbol a	1 A	ks A / a1 af
Published electrical parameter	20 A	[20 ANl 00r 1 a1
Source symbol r	1 A	[20 ANl 00r 1 a1
Source symbol B	3 A	THXH TA3HBI B 3aBHCHMOCTH OT HaIpPsAXCHHS 1 — TOK aHOIa; 2 — TOK CETKH BTODPOii;
Published electrical parameter	2±200 V	Un=6,3V, Ug=200 V Un=63V, Us=200 V, E;2=200V,
Source symbol Rg	2±22 kΩ	Averaged grid characteristics Rg2=22 kQ
Source symbol grid	1 V	ductance versus grid 1 voltage Averaged characteristics:
Source symbol Reg	2±22 kΩ	Reg2=22kQ



1981 Russian Tubes Katsnelson and Larionov

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1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Nominal heater voltage	6.3 V	Published source value
Nominal heater current	300 mA	Published source value
Guaranteed service life	3000 h	Published source value
Transconductance	12500 uS	Published operating point
Plate resistance	500000 Ohm	Published operating point