

Long-life Russian high-frequency pentode with two separate anodes, designed for wideband professional amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	6.3 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	36000 Ω
TRANSCONDUCTANCE	0.006 S
English-primary bilingual extraction; published ratings promoted where clear.	

PENTODE 6 4301-E BoicokouacToTHbiil nedTon 6K43I1-E ꝥ gsymsa pas- The long-life high-frequency 6XK43I1-E pentode with JeNbHbIMM aHOOaMH JOJIFOBeyHbIH, NpefHa3HAYeH ais two separate anodes has been designed for use in wide-

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
PENTODE	4301	PENTODE 6 4301-E
BoicokouacToTHbiil nedTon	6	BoicokouacToTHbiil nedTon 6K43I1-E ϕ gsymsa pas- The long-life high-frequency 6XK43I1-E pentode with
Published electrical value	4	1 — xaron; 2 — cerca nepsasi; 3 — KaTon; 4 — NOLOrpesaTeib;
Published electrical value	5	48 5 max
Published electrical value	3	5 — nomorpesartens; § — aHOM [IEPBLIA; 7 — CETKA TPETHA M 3K-
paH	9	paH; 8 — aHOI BTOPO#; 9 — ceTKa BTOpas
Published electrical value	56.5	56,5 max
I — cathode	5	I — cathode; 2 — grid 1; 3 — cathode; ϕ — heater; 5 — heater;
Published electrical value	2	6 — anode 1; 7 — grid 3 and screen; 8§ — anode 2; 9 — grid 2
BubpauvonHbie Harpy	60 Hz	BubpauvonHbie Harpy3kd B OMaNa3oHe 4acToT OT 1 Vibration: at frequencies from ! to 60 Hz with
ao	-45	ao 15 mc. Temmeparypa okpyxalowiei cpefisl oT —45
npH Temnepatype a	35	npH Temnepatype a0 35 °C. up to 98% at up to 35 °C.
D/	1	D/1eKTpHYECKHE NApPaMeTphbl Electrical Parameters
Published electrical value	6.3	102 T - 6,3 heater 6.3
= U	150	= U 0 1 O 150 aAnode ... e 150
[&=	150	[&=30:9: @: 3 0e] oo - 150 grid 2 L e 150

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CeTKH TPETBEH i it	0	CeTKH TPETBEH i it 0 grid 3 . e 0
Toxk, MA	40 mA	Toxk, MA: 40
heater	45050	heater 45050
HAKATIA ...ttt ettt	2	HAKATIA ...ttt ettt 450_':2%
eachanode il	1447	eachanode il 1447
anode (total)l	2710	anode (total)l 2710
AHOMA (CYMMAPHBIA) ...ttt rneeeeen e	10	AHOMA (CYMMAPHBIA) ...ttt rneeeeen e, 27%10
BrId	3	BrId 2 e 6+3
CeTKM BTOPOM ..o viit it iiein i ieieaans	3	CeTKM BTOPOM ..o viit it iiein i ieieaans 6+3
anode, cutoff, at grid voltage —{	0	anode, cutoff, at grid voltage —{5V = [0x1073
HHH CeTRM nepBoit ~	350 Ohm	HHH CeTRM nepBoit ~15B) =10- 10"3 Resistance in cathode circuit for automatic bias. Ohm 350
Internal resistance, kOhm	36 kOhm	Internal resistance, kOhm 36
eMetleHMa, OM oo e	50	eMetleHMa, OM oo e 50
BHyTpeuHee COMPOTUBIEHHE, KOM	1.5 kOhm	BHyTpeuHee COMPOTUBIEHHE, KOM 36 Input resistance at 60 MHz, kOhm 1.5
Bxonuoe conporuBneHse Ha yacore	1.5	Bxonuoe conporuBneHse Ha yacore 60 MIy, xOm 1,5
Equivalent noise resistance, kOhm	0.24 kOhm	Equivalent noise resistance, kOhm 0.24
JKBHBaAJICHTHOE CONPOTHBICHHE IHYMOB, KOM	0.24	JKBHBaAJICHTHOE CONPOTHBICHHE IHYMOB, KOM 0,24
MO KAXKIOMY AHOLY « v v vemeee	153 V	MO KAXKIOMY AHOLY « v v vemeee .. 1575 with regard to each anode 153
CYMMADHAR ... nrneennieeneannnnnnannnns	0	CYMMADHAR ... nrneennieeneannnnnnannnns 30i7 o total for both anodes 30%0
Published electrical value	0.3 V	Q6paTHELA TOK CETKA NepBOH (IIPH HATIPSKEHHAH CETKH Inverse grid 1 current, at grid ! voltage —2 V, uA =<0.3
mepBoit —	0.3	mepBoit —2B), MKA e, =0,3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
et	13.542	et ;35;iozs HIDUE o et 13.542
BBIX0IHAR «ovvvvenveveeieineieeneeee	33405 V	BBIX0IHAR «ovvvvenveveeieineieeneeee 0,075 OUEDUL v e et e et e e e 33405
TPOX0IHAA ..vvvvrvvenineiee vt =	0.075	TPOX0IHAA ..vvvvrvvenineiee vt = 16 transfer i e =0.075
KaToN — MONOTPEBATEMDvvvvvvreee.s SO	10	KaToN — MONOTPEBATEMDvvvvvvreee.s SO 15 cathode-to-heaterl =10
CeTEA NICPBAR — TONOTPEBATENLvvvvnee =	1	CeTEA NICPBAR — TONOTPEBATENLvvvvnee =5 grid- 1-to-heater
DnekTpHEYECKHe NapaMeTpsl B Teyenue	4	DnekTpHEYECKHe NapaMeTpsl B Teyenue 5000 4 skruty-
oy, MA/B i =	6 V	oy, MA/B i =6 transconductance for each anode, mA/V =6
00paTHLIIf TOK CETKH MEPBOM, MKA =<	1	00paTHLIIf TOK CETKH MEPBOM, MKA =<1,5 inverse grid 1 current, WA
Ilpenenbale	3	Ilpenenbale 3Ha49eHnst AOMYCTAMBIX Limit Values of Operating
HARAIA . ooveveniineeeeeeee	6	HARAIA . ooveveniineeeeeeee 6,6 6 heatercceiii..L. 6.6 6
AHOMA ..ot vnennnnnencnnrnnn	150	AHOMA ..ot vnennnnnencnnrnnn 150
Published electrical value	150	150 anode ciinnL, 150
CETHH BIOPOHoovvvvnes g	150	CETHH BIOPOHoovvvvnes g2 Lo 150
TeneM (NPH OTPHEIATELHOM IO- heater at negative potential	100	TeneM (NPH OTPHEIATELHOM IO- heater at negative potential 100
TeHmHaJIe IOXOrpeBaTeNA)	40	TeHmHaJIe IOXOrpeBaTeNA) 100 Ca 40
TOK XKaTOZa, MAc	40 mA	TOK XKaTOZa, MAc..... 40 thode current, mA
pacedBacMast RHOAOM	245	pacedBacMast RHOAOM 2,45 4 245
paccemsaemas CeTROH BTOpoH	24	paccemsaemas CeTROH BTOpoH 1,15 at ang; 24
CONp0THRIIETE B LM CeTRH mep- atgrid	0	CONp0THRIIETE B LM CeTRH mep- atgrid2.....00iiiiinn.. -
BOM, MOM ...\ 	0.3 MOhm	BOM, MOM ...\ , 0,3 Resistance in grid 1 circuit, MOhm 0.3
Published electrical value	85	85 Ugh . o .
soHf L	7	soHf L , 7
LIS	7	LIS 7 S - Pl -

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
JHIES	1 A	JHIES - 1 L A : e
Hip=anSSmil]	7	Hip=anSSmil] 7 AN AN/ SRV R
Published electrical value	2	1 — aHOOHNBIE; 2 — CETOYHO-aHOMHbIE (1o ceTke BTOPOiA); ! — aHONHO-CETOYHOE; 2 — CETOYHbIE (O CETKE BTO-
Published electrical value	3	3 — HanGospnIas KOMYCTHMAA MOIOHOCTD, PAcceuBaeMast poit); 3 — XpyTU3HA
a"H000M Un=	150 A	a"H000M Un=6,3V, Ua=150V
Un=	100	Un=6,3V, Ugp=100V
Averaged characteristics: ! ~ anode-grid	3	Averaged characteristics: ! ~— anode-grid; 2 — grid (for grid 2); 3 — trans-

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
OTCEYKH /IEKTPOHHOIO TOKA CETKH MepBoi, tie	-0.5	OTCEYKH /IEKTPOHHOIO TOKA CETKH MepBoi, tie 6o- grid 1 electron current cutoff, max. -0.5
Published electrical value	3	1 — anode; 2 — grid-anode (for grid 2); 3 — maximum conductance
permissible anode dissipation Un=	150 uA	permissible anode dissipation Un=63V, Ua=150V

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