



ELECTRONIC TUBE REFERENCE

6Z32P

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Russian pentode designed specifically for first-stage amplification in sound-recording and sound-reproducing equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	2500000 Ω
TRANSCONDUCTANCE	0.002 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM SCREEN DISSIPATION	0.2 W
MAXIMUM CATHODE CURRENT	6 mA
English-primary bilingual extraction; published ratings promoted where clear.	

PENTODE 6k 32l IlesTonm 6)K32I1 npennasHadyeH A paboThl B IEPBBIX The 63K32I1 pentode has been designed for use in

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	32	PENTODE 6k 32l
IlesTonm	63 A	IlesTonm 6)K32I1 npennasHadyeH A paboThl B IEPBBIX The 63K32I1 pentode has been designed for use in
KaCKafax	3	KaCKafax 3BYKO3aIHChIBaloNle M 3BYKOBCHDOH3BOIS- first stages of sound recording and sound reproducing
Published electrical value	4	1 — ceTka BTopaf; 2 — 3kpaH; 3 — xaron; 4 — MOOOTPCBaTED;
Published electrical value	8	5 — noppesaTels 6 — aHOX; 7 — 3KpaH; 8§ — CeTKa TPETHS;
Published electrical value	56.5	56,5max
Published electrical value	49.5	49,5 max
Published electrical value	9	9 — ceTxa nepsas
Published electrical value	5	1 — grid 2; 2 — screen; 3 — cathode; 4 — heater; 5 — heater;
Published electrical value	1	6 — anode; 7 — screen; 8 — grid 3; 9 — grid 1
BubpaunonHble Harpy	200 Hz	BubpaunonHble Harpy3ku B OMama3oHe 4actToT OT I Vibration: at frequencies from 1 to 200 Hz with
Published electrical value	5	o 200 I'r ¢ yckopenneM 10 5 g. MHORoxpaTHble ylapHbIE
Published electrical value	6.3	¥ 1% B . 6,3 heater ... i e 6.3
Published electrical value	250	E:1: (7 ¢ R 250 anode ...l
CETKM BTOPOH	140	CETKM BTOPOH, 140 - o s 1 PP 140

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CeTKH TPETBEH o ien et iineeerecnnns	0	CeTKH TPETBEH o ien et iineeerecnnns. 0 -4 ¢ T S5 AP 0
OTCEYKA I/EKTPOHOTO TOKa CETKH mepeoit =	13	OTCEYKA I/EKTPOHOTO TOKa CETKH mepeoit =1,3 grid 1 electron current cutoff =13
Hanpsixexue ryqeHHs (Ipd HAMPAXEHAHR CETKA BTOPO# Hum voltage, at grid	250 V	Hanpsixexue ryqeHHs (Ipd HAMPAXEHAHR CETKA BTOPO# Hum voltage, at grid 2 voltage 250 V, resistances
Published electrical value	0.001 kOhm	250 B, comporupieHuwsix B uenu xaroga 1 kOM, B uenu 1 kOhm in cathode circuit, at most 0.001 MOhm in
ceTkn nepBoit He Gonee	390 kOhm	ceTkn nepBoit He Gonee 0,001 MOM, B e aHoaa grid 1 circuit, 100 kOhm in anode circuit, 390 kOhm
Published electrical value	100	100 xOM, B uend cetk:® BTOpo#t 390 xOM, emKocTH in grid 2 circuit and capacitance 100 &F in cathode
B uerm katona	4	B uerm katona 100 Mx®), MxB =4 CIRCUIt, LY L ittt =4
e nrainneseennannasannan	20	e nrainneseennannasannan 200+ 20
Published electrical value	20	4=) (NPt 200+20
AHOMA ittt ittt e ineeian s tonnannanns	0.9	AHOMA ittt ittt e ineeian s tonnannanns 3+0,9
ANOAE .. ittt	3109	ANOAE .. ittt 3109
CETKH BTOPOM iiiiiniiriinnaereannn. =	0.8	CETKH BTOPOM iiiiiniiriinnaereannn. =0,8
Low-frequency noises, at grid	250 V	Low-frequency noises, at grid 2 voltage 250 V,
poit	250	poit 250 B, cONMpPOTHBICHUAX B LIEOH CETKH NEPBOU
resistances	1 kOhm	resistances 0.001 MOhm in grid 1 circuit, 1 kOhm
Published electrical value	1	0,001 MOwm, B uemz xatona 1 xOm, B LeOd aHona
in cathode circuit	100 kOhm	in cathode circuit, 100 kOhm in anode circuit,
Published electrical value	390	100 xOMm, B uemH ceTkH BTOpOH 390 kOM, eMKOCTH
Published electrical value	100 kOhm	390 kOhm in grid 2 circuit, and capacitance 100 uF

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
suend katoga I	3	suend katoga I00Mk®), MxB =3
in cathode circuit, fV ... i it =	3 V	in cathode circuit, fV ... i it =3
BuyrpenHee compornBiaeHae, MOM	2.5	BuyrpenHee compornBiaeHae, MOM 2,5
Internal resistance, MOhm	2.5 MOhm	Internal resistance, MOhm 2.5
ConpoTuBneHye B Lemd katoda, KOM	0.55	ConpoTuBneHye B Lemd katoda, KOM 0,55
Resistance in cathode circuit, kOhm	0.55 kOhm	Resistance in cathode circuit, kOhm 0.55
KpyTH	0.6 mA	KpyTH3Ha xapakTepyTuku, MA/B 2+0,6
Transconductance, mA/Y . . .ot	2406 mA	Transconductance, mA/Y . . .ot 2406
BXOIHAR .. vvven s vrennneanennnnnenonanennannns	4	BXOIHAR .. vvven s vrennneanennnnnenonanennannns 4
IOPUL - oot e	4	IOPUL - oot e 4
BBIXOAHAR ..o viteve e ennennenennecnennns	5.5	BBIXOAHAR ..o viteve e ennennenennecnennns 5,5
OULPUL ..ttt ttinererannnnrenncaranennnnssns	5.5	OULPUL ..ttt ttinererannnnrenncaranennnnssns 5.5
TIPOXOMHAR -+« e i vevteeeeseaeaaeenanninaaan =	0.05	TIPOXOMHAR -+« e i vevteeeeseaeaaeenanninaaan =0,05
transfer e =	0.05	transfer e =0.05
DnekTpuyeckue napameTpsl B TedeHre S	3	DnekTpuyeckue napameTpsl B TedeHre S000 9 3xcwly-
aTaluy: Electrical parameters over	5000	aTaluy: Electrical parameters over 5000 operating hours:
KPyTH	1 mA	KPyTH3HA XapaKkTepHCTHKH, MA/B =1 transconductance, mA/Y oo =1
HafpsHKEHHE TYAeHAs, MKB =	7	HafpsHKEHHE TYAeHAs, MKB =7 hum voltage, bV iiiiii i =7
TIpeneabHble	3	TIpeneabHble 3HAYEHHA JOMYCTHMBIX Limit Values of Operating
HAKATIA .. vvovrvonvunnnnnnnns	5.7	HAKATIA .. vvovrvonvunnnnnnnns 6,9 5,7 heater ocvveunnenennnn 6.9 5.7

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AHOMA .. vvvvvvnnnetannnnanrnnns	300	AHOMA .. vvvvvvnnnetannnnanrnnns 300 anode ... 300
CETKH BTOPOH	200	CETKH BTOPOH 200 grid2 200
Published electrical value	50	1BaJie NOgOrpeBares 50 tial .. 50
LHAaJIe NONOTpeBaTeNs	100	LHAaJIe NONOTpeBaTeNs 100 tial ..o 100
Toxk xatoma, MA	6 mA	Toxk xatoma, MA 6 Cathode current, mA 6
pacceyBaeMast aH000M	1	pacceyBaeMast aH000M 1 atanode 1
pacceusaeMas cerko#t BT0po#t	0.2	pacceusaeMas cerko#t BT0po#t 0,2 atgrid2.....ooiii, 0.2
Bo#, MOM: Resistance in grid	1 MOhm	Bo#, MOM: Resistance in grid 1 circuit, MOhm:
aHogoM Gonee	3	aHogoM Gonee 0,2 Bt 3 than0.2W cete. 3
NMpH MOLUKOCTH, pPacceuBaeMoii at anode power dissipation	0.2 W	NMpH MOLUKOCTH, pPacceuBaeMoii at anode power dissipation 0.2 W
Published electrical value	22 MOhm	3a CYET TOKA CeTKH mepBoi), MOM 22 to grid 1 current, MOhm 22
Published electrical value	5 V	2)V ,/ A48 f eSSy oy 1'}*5"—
/ /	4	// 1// S TTT e i S S ST -4.5;4_
Published electrical value	360	0 100 200 300 UgY 0 40 80 120 160 200 240 280 320 360 UgY
BRJII0YEHMeE):] — adomHble	3	BRJII0YEHMeE):] — adomHble; 2 — CETOYHO-aHO0HBIE (IO CeTKe BTOPOH); 3 —
Un=	63	Un=63V Hapbomblas OMyCTEMAasx MOIIHOCTb, PacCeMBaEMas aHOAOM
Un=	63	Un=63V Averaged characteristics:
Un=	140	Un=63V, Ugp=140V
Ugz'ZU0V	160	Ugz'ZU0V 180V 160V t4av '
] — aH00H0-CeTOUYHBIE	2	] — aHO0HO-CeTOUYHBIE, 2 — CETOYHBIE (IO CETKE BTQPOIt)
Published electrical value	2	1 — anode-grid; 2 — grid (for grid 2)

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
aHonoM He Gonee	10	aHonoM He Gonee 0,2 Br 10 MAX. ot tveineeansnnnoeseeranas 10
Published electrical value	3	1 — anode; 2 — grid-anode (for grid 2); 3 — maximum permis-

TUBE TINKER

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