



ELECTRONIC TUBE REFERENCE

6Z3P

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Russian high-frequency tetrode with pentode-like characteristics, designed for high-frequency voltage amplification in receiving and related electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B7G	BASE PINS	7
NOMINAL HEATER	6.3 V / 325 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.005 S
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	165 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM SCREEN DISSIPATION	0.55 W
English-primary bilingual extraction; published ratings promoted where clear.	

TETRODE 630 BB LICOKOYACTOTHBIA TETPOX C MEHTOOHOH XapakTepH- The 6X3I1 high-frequency tetrode with a pentode ctHKo# 6)K3I1 npenHasHaYeH LI YCHJIEHHA HanpsXeHUA characteristic has been designed for h.f. voltage amplifica-

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 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TETRODE	630	TETRODE 630
BBLICOKOYACTOTHBIA TETPOX C MEHTOOHOH XapakTepH- The	6 A	BBLICOKOYACTOTHBIA TETPOX C MEHTOOHOH XapakTepH- The 6X3I1 high-frequency tetrode with a pentode
ctHKO#	6	ctHKO# 6)K3I1 npenHasHaYeH LI YCHJIEHHA HanpsXeHUA characteristic has been designed for h.f. voltage amplifica-
BBICOKOH	9	BBICOKOH 9acTOTBI B panMOTEXHAYECKHX YCTPOHCTBaxX. tion in electronic devices.
Published electrical value	2	1 — cerka nepsas; 2 — kaTox ¥ JyveobpasyloLlne IUIACTHHH;
Published electrical value	6	3 — moppesaTeis; 4 — MONOTPEBATENS; J — aHON; 6 — ceTka
Published electrical value	7	é 5 BTOpas; 7 — KaTOX H Jiydeo6pa3yiolne NIacTHHBEI
N f \)	7	N f \) 7 Diagram of electrodes-to-pins connection:
Published electrical value	3	2 Ve 1 — grid 1; 2 — cathode and beam-forming plates; 3 — heater;
Published electrical value	7	4 — heater; 5 — anode; 6 — grid 2; 7 — cathode and beam-
Published electrical value	4	3 4 forming plates
BubpausoHHble HATPY	80 Hz	BubpausoHHble HATPY3KH B AHana3oHe 4acToT OT 1 Vibration: at frequencies from 1 to 80 Hz with
Harpy	15	Harpy3kH ¢ yckopeHueM 10 15 g. TemnepaTypa Okpyxato-

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
AHOMB vt vveveenneneranonaasasoncannnsnnns	250	AHOMB vt vveveenneneranonaasasoncannnsnnns 250 anode ... e 250
CETKA BTOPOH cuvrvriinininienieieinennn	150	CETKA BTOPOH cuvrvriinininienieieinennn 150 grid 2 L 150
a"ona	-9 A	a"ona 30 MxkA), B,ue Gonee -9
Tox, MA: RERLET ..o	325450 mA	Tox, MA: RERLET ..o 325450
HAKATIR¢ ittt nveoncasnsrssscononsans	2	HAKATIR¢ ittt nveoncasnsrssscononsans 325:t50 ANOAE - oo et T+2
BHOIA oo ot tieveeneaneneensecunecanconennn	2407	BHOIA oo ot tieveeneaneneensecunecanconennn 7+£2 BT 2 2407
CETKH BTOPOH	0.7	CETKH BTOPOH .. .0viviiinnininiinnenoannnnns 21+0,7
COnpOTHBIERNAE B LEIA KATOAA, KOM oon	200 kOhm	COnpOTHBIERNAE B LEIA KATOAA, KOM oon..... 200 Resistance in cathode circuit, kOhm 200
BHyTpenHee conpotaBnenu, MOM	0.75	BHyTpenHee conpotaBnenu, MOM 0,75 ,
Int , MOhm ...l	0.75 MOhm	Int , MOhm ...l 0.75
Published electrical value	1	... 5+1 nternal resistance
OGPaTHBIt TOK CETKH NepB0# (IPH HANpsHKEHAHR CETKA Transconductance, MA/V v	1 V	OGPaTHBIt TOK CETKH NepB0# (IPH HANpsHKEHAHR CETKA Transconductance, MA/V v, 5+1
mepBolt –	1	mepBolt —2 B), MKA =1 i .
Inverse grid	1 V	Inverse grid 1 current, at grid 1 voltage — 2 V, uA =<1
BX0IHAR ..o\ eeveeeee e e	6.241 pF	BX0IHAR ..o\ eeveeeee e e 6,241, pactfance, , p pF:
BBIXOMHAR - . o vev e eee s e e e	12	BBIXOMHAR - . o vev e eee s e e e 2,840,5 117211T 2 N 6.2+12
TIDOXOMHAA -« v vers s e eeeeeeeeeeaaens =	0.5 V	TIDOXOMHAA -« v vers s e eeeeeeeeeeaaens =0,035 OULPUL ..o ititt e iineinenaneneernenuesnen 2.8+0.5
OnexTpAYECKAe napaMeTpsl B Tesenne	1	OnexTpAYECKAe napaMeTpsl B Tesenne 5000 1 axcrly-
aTALAH: Electrical parameters over	5000	aTALAH: Electrical parameters over 5000 operating hours:

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
KPYTH	3.25 V	KPYTH3HA XapaxTepmcTssd®, MA/B =3,25 transconductance, mA/V coceennnn =3.25
IipeneJn-nue	3	IipeneJn-nue 3HAYCHHA JONYCTHMBIX Limit Values of Operating
HAKAMA ..ovveeiennnniniienes	5.7	HAKAMA ..ovveeiennnniniienes 7.0 57 heater ovuiinnL. 7.0 5.7
BHOMA ...o.vvviiiinatnas	330	BHOMA ...o.vvviiiinatnas 330 anode ..., 330
CETKH BTOPOH	165	CETKH BTOPOH 165 grid2 ... 165
IHaJTe ONOTPeBaTeNS	0	IHaJTe ONOTPeBaTeNS 100 nz'nl EEETRRES 00
NIPH OTPHATEHHOM HOTEH- \Ylth heater at negative poten	100	NIPH OTPHATEHHOM HOTEH- \Ylth heater at negative poten- 100
IHANle MOXOTPeBaTeNs	100	IHANle MOXOTPeBaTeNs 100 tial ...
pacceupacMast aHOAOM	2.5	pacceupacMast aHOAOM ... 2,5 atanode 2.5
pacceBaemas ceTKoH Broto#	0.55	pacceBaemas ceTKoH Broto# 0,55 atgrid2.....iieei.. 0.55
aofi,pxOM l-l..... P	100 kOhm	aofi,pxOM l-l..... P 100 Resistance in grid 1 circuit, kOhm 100
Harperoif yactu), °C	120	Harperoif yactu), °C 120 tion), °C, 120
Published electrical value	6	18 \ Yor =0 s,mAN;'6
rAmy/-, A	4	rAmy/-, A7 4
Published electrical value	-2 V	0 100 200 300 UgV Ug,,V"& -5 -4 3 -2 a
Published electrical value	2 A	1 — anomnsle; 2 — CEeTOYHO-aHOAHBIE (IO CETKE BTOPO); 1 — a"HoOHO-CeTOYHAA; 2 — ceToyHas (MO CeTKe BTOPOIH);
Published electrical value	3	3 — nanbonblas JOOYCTAMAS MOIIHOCTb, pacceWBae- 3 — KpyTH3Ha
Mas aH000M Un=	100 V	Mas aH000M Un=6,3V, Ua=250V, Uz =100 V
Averaged characteristics	3	Averaged characteristics: 1 — anode-grid; 2 — grid (for grid 2); 3 — trans-
Un=	150	Un=6.3V, Ugp=150V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	-9	3aApaOLlee HANPAXKEHUE CETKH NepBoit (pH TOKe grid 1 cutoff, at anode current 30 2A, max. -9
Published electrical value	3	1 — anode; 2 — grid-anode (for grid 2); 3 — maximum conductance
permissible anode dissipation Un=	100 V	permissible anode dissipation Un=63V, Usg=250V, Ugp =100 V

TUBE TINKER

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