



ELECTRONIC TUBE REFERENCE

6Z9PE

Voltage - Pentode High Frequency (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Special-quality Russian high-frequency pentode intended for demanding input stages of wideband amplifiers.

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

SECTION 1 Pentode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0175 S
MAXIMUM PLATE VOLTAGE	160 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	22 mA
<i>English-primary bilingual extraction; published ratings promoted where clear.</i>	

PENTODE 6HAMN-E xapaktepucTuku 6K9I1-E npenna3snauen ans Mcmonn3o- pentode has been designed for use in input stages of 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	6	PENTODE 6HAMN-E
BbICOKOYACTOTHBIN INEHTOX ¢ BBICOKOH KpPYTH	6	BbICOKOYACTOTHBIN INEHTOX ¢ BBICOKOH KpPYTH3HOM The 6X9II-E high-frequency steep-characteristic
xapaktepucTuku	6	xapaktepucTuku 6K9I1-E npenna3snauen ans Mcmonn3o- pentode has been designed for use in input stages of wide-
Published electrical value	4	1 —xatox; 2 — ceTka nepsas; 3 — KaTo1; 4 — NOAOepeBaTED;
Published electrical value	7	5 — nmonorpeBaTenb; 6 — HE NORKIIIOYEH; 7 — aHOA, § — ceTka
TpeTcs H	9	TpeTcs H 3KpaH; 9 — ceTka BTOpas
% Wl P	5	% Wl P 1,3 1 — cathode; 2 — grid 1; 3 — cathode; 4 — heater; 5 — heater;
Published electrical value	3	6 — not connected; 7 — anode; 8 — grid 3 and screen;
Published electrical value	2	9 — grid 2
Bubpanuonssle Harpy	60 Hz	Bubpanuonssle Harpy3kd B Quamna3oHe 4acToT OT Vibration: at frequencies from 1 to 60 Hz with acce-
Published electrical value	2	10 60 I'y ¢ yckopenneM o 2 g. MHOTOKpaTHbIE YAApHBIE
Harpy	40	Harpy3ki ¢ yckopenuem 1o 40 g. TeMnepaTypa okpyxato-
HAKAMTA o otie it ieemeenesennnanenannns	6.3	HAKAMTA o otie it ieemeenesennnanenannns 6,3 heateriiiiii
Published electrical value	150	F:1: (031 U 150 anode ... e e 150

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CETKH BTOPOMvvrnneiiaannennnnnnnes	150	CETKH BTOPOMvvrnneiiaannennnnnnnes 150 grid 2 L e 150
Published electrical value	0	i, 0 grid 3 e 0
AHOMA .« it eeeinnseeanneteenenannseeannnnn	300	AHOMA .« it eeeinnseeanneteenenannseeannnnn 1514 heater 300iE\$
ANOdE ... i e e	4	ANOdE ... i e e 15+4
CETKH BTOPOHciiainnriinnnnnnnnnn	3	CETKH BTOPOHciiainnriinnnnnnnnnn, 2,413:3
ConpoTHBIEHHE B LIEMH KaTOAA U	24358	ConpoTHBIEHHE B LIEMH KaTOAA U1 aBTOMATHYECKOrO BEA 2+ o 24358
eMmemeHHA, OM ittt	80 Ohm	eMmemeHHA, OM ittt 80 Resistance in cathode circuit for automatic bias, Ohm 80
BuyTpeHHee conporusenne, MOM	0.1 MOhm	BuyTpeHHee conporusenne, MOM 0,1 Internal resistance, MOhm 0.1
BxonHoe compotuBrenne Ha uactope	5 kOhm	BxonHoe compotuBrenne Ha uactope 60 MTI'u, xOMM 5 Input resistance at 60 MHz, kOhm 5
JKBHBAIEHTHOE CONPOTUBJIEHHE LUYMOB, KOM	25 kOhm	JKBHBAIEHTHOE CONPOTUBJIEHHE LUYMOB, KOM 0,35+025 Equivalent noise resistance, kOhm 0.35+0-25
KpyTy	35 V	KpyTu3na xapaktepnykud, MA/B 17,5+3,5 Transconductance, mA/V 17.5E35
Published electrical value	3	3atyxaHue, nB:
BTOPOM FADMOHHKHcovvunrennnnraennns	40.3	BTOPOM FADMOHHKHcovvunrennnnraennns 40.3
TPETHEH TAPDMOHHEKHvivvrennnnrennnnanans	10	TPETHEH TAPDMOHHEKHvivvrennnnrennnnanans 70-10 second harmonic
Emkocts, nd: third harmonicc i	10	Emkocts, nd: third harmonicc i 70- 10
BXOIHAM . ..ot e tvaneannenannaenaoanennnnnnns	0.8 pF	BXOIHAM . ..ot e tvaneannenannaenaoanennnnnnns 7,8+0,8 Capacitance, pF:
BBIXOMHAM .. vovuuinnncnnecsneeeannnnennns	1	BBIXOMHAM .. vovuuinnncnnecsneeeannnnennns 2,7+0,8 01

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TPOXOMHAT o vvesesinaanreeeeannannnnneeeenns =	8 V	TPOXOMHAT o vvesesinaanreeeeannannnnneeeenns =0,02+0.01 OULPUL ..ottt ittt e i ciia v 2.7x0.8
OunieXTpHYeCKHe TlapaMeTphl B TedeHre S	0.01	OunieXTpHYeCKHe TlapaMeTphl B TedeHre S000 4 3xcruty- transfer =0.02+0.01
Published electrical value	5000	o0OpaTHbIl TOK CETKH NEpBOH, MKA =2 Electrical parameters over 5000 operating hours:
KPYTH	2 mA	KPYTH3HA XapaKTepHCTHKH, MA/B =11 inverse grid 1 current, LAl =2
Published electrical value	11 V	H3MEHCHHE CPEIHEP0 3HAYCHMA KPYTH3HBI Xapakx- transconductance, mA/Vol =11
TEPHCTHKHE, % . .vvovnrvenerrnnnenerennernnnns =	15	TEPHCTHKHE, % . .vvovnrvenerrnnnenerennernnnns =15 change in transconductance average value, % =+t15
ITpenenbHEbie	3	ITpenenbHEbie 3HaYeHHs TONYCTHMBIX Limit Values of Operating
HARMA oo i":o	6	HARMA oo i":o 6.0 REALEr .. eeeeeeeeennnn. 6.6 6.0
BB covoe s anodeiiiiiiiiiiiie	160	BB covoe s anodeiiiiiiiiiiiie, 160
CETKH BTOPOK	150	CETKH BTOPOK 150 grid 2 150
feM (OPH OTHUATCILHOM NO- heater at negative potential	100	feM (OPH OTHUATCILHOM NO- heater at negative potential 100
TeHUHAAJIC HOAOpeBaTes)	100	TeHUHAAJIC HOAOpeBaTes) 100
Tok xatoma, MA	22 mA	Tok xatoma, MA 22 Cathode current, mA 22
paccemBacMasi aHOAOM	3	paccemBacMasi aHOAOM 3
paccempacvai ceTko BTOPO#	3	paccempacvai ceTko BTOPO# 0,45 at aqodc 3
ConpoTur/ieHie B HemH CETKH Dep- atgrid	0.45	ConpoTur/ieHie B HemH CETKH Dep- atgrid2.....iinnn.. 0.45
BOM, MOMcooeieeen	0.5 MOhm	BOM, MOMcooeieeen, 0,5 Resistance in grid 1 circuit, MOhm 0.5
Harpero#t vactu), °C	130	Harpero#t vactu), °C 130 PORTion)c..eviiiniann.. 130
Ugr=	-5	Ugr=-05Y

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
I]	3 V	I] 32 S NuUREp 3T v
T Ugp=	25	T Ugp=150V < ',I i 24 R Ty T 25Vé;f)' Ny
Published electrical value	2	7, ; 16 — aHopnHBIE; 2 — CETOMHO-AaHOIHBIE (IO CETKE BTOPOH);
Published electrical value	3	3 — Haubospluas XOMYCTAMAas MOMIHOCTh, pacCeMBaeMas
i /[\[i	12	i /[\[i 12 aQHOIOM
Published electrical value	0 V	J1/7 T proey Un=6,3V, Ug=150 V, Ug3=0 V
Published electrical value	8	; 3 8 Averaged characteristics:
T AT Un=	0 V	T AT Un=63V, Up=150 V, Ugz=0 V
UgnV	4	UgnV-4
Published electrical value	3	1 — aHOmHO-CETOUYHBIE; 2 — CETOYHBIE (110 CETKE BTOPOM); 3 — KpyTu3Ha
Published electrical value	3	1 — anode-grid; 2 — grid (for grid 2); 3 — transconductance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	3 A	3 /A / /,\@/Q_ 1 — anode; 2 — grid-anode (for grid 2); 3 — maximum
) / +\%	4	) / +\% 4 permissible anode dissipation

TUBE TINKER

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