

Extended-life Russian sharp-cutoff high-frequency pentode for professional RF voltage amplification.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.003 S
English-primary bilingual extraction; published ratings promoted where clear.	

PENTODE crukoit 6)K2IT-EB mpennasHadyeH mns yCWJeHHs Hanps- pentode has been designed for h.f. voltage amplification,

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
BbICOKOYACTOTHBIN MEHTOX C KOPOTKOW XapaKTepH- The	6	BbICOKOYACTOTHBIN MEHTOX C KOPOTKOW XapaKTepH- The 6X2M-EB high-frequency short-characteristic
crukoit	6	crukoit 6)K2IT-EB mpennasHadyeH mns yCWJeHHs Hanps- pentode has been designed for h.f. voltage amplification,
AKEHHUS BHICOKOM	4	AKEHHUS BHICOKOM 4aCTOTHL.
)“ H Cxema coeMHEHMS	3	)“ H Cxema coeMHEHMS 3MEKTPONOB C BLIBOAAMH:
Published electrical value	4	f . 1 — ceTxa nepBas; 2 — KaTon, 3xpaH; 3 — noaopereans; 4 —
Published electrical value	7 W	S 8]w 7 NOJOrPeBaTeNlb; 5 — aHOA; 6 — CETKH BTOnas; 7 — CeTKa Tpe-
Published electrical value	2	f 2 = Diagram of electrodes-to-pins connection:
Published electrical value	4	1 — grid 1; 2 — cathode, screen; 3 — heater; 4 — heater;
\fl'[wj	3	\fl'[wj 3. 5 — anode; 6 — grid 2; 7 — grid 3
Bubpanuvonsble Harpy	600 Hz	Bubpanuvonsble Harpy3Kd B AMana3oHe 4acToT OT Vibration: at frequencies from to 600 Hz with
Harpy	500	Harpy3ku ¢ yckoperdeMm o 500 g. JIyuHeliHble Harpy3ka
¢ yckopennem go	100	¢ yckopennem go 100 g. Temmepatypa okpykaroluei
OKpyXarLeld cpeasl	3	OKpyXarLeld cpeasl 40 3 aT™M. up to 3 atm.
Published electrical value	6.3	e 63 heater 6.3

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
BHOMR e et iig ANOAE ... \t	120	BHOMR e et iig ANOAE ... \t 120
CETKH TPETBEH ittt	0	CETKH TPETBEH ittt 0 e
Brid	120	Brid 2 L. e 120
OTCEYKH JJIEKTPOHHOIO TOKa CETKH grid	0	OTCEYKH JJIEKTPOHHOIO TOKa CETKH grid 3 e 0
HAKATIA o eitintte it anriennnnnnnnns	13 mA	HAKATIA o eitintte it anriennnnnnnnns 171+13 Current, mA:
AHOMA .+ o ovve e oo e	13	AHOMA .+ o ovve e oo e 6+2,2 heater o e 171f13
CETKH BTOPOM\ .iiiiitiiireaanennnnna, =	2.2	CETKH BTOPOM \ .iiiiitiiireaanennnnna, =5 anode ... 6+2.2
aHOA [	5	aHOA [0 HAMNPAKEHUIO CETKA TPETHel (IpH Hanps- grid2 =5
XeHHH CeTKA –	1073	XeHHH CeTKA –15B) l =50-1073 anode, with regard
to grid	3	to grid 3, at grid 3 voltage
JKEHHH CETKH nepBod –	1073 V	JKEHHH CETKH nepBod –10B) =40 1073 anode, with regard to grid 1, at grid I voltage –10 V =40X 1073
ConpoTHB/EHHKE B LIENH katodga, OM	200 Ohm	ConpoTHB/EHHKE B LIENH katodga, OM 200 Resistance in cathode circuit, Ohm 200
BuyTpenHee conpoTusierue, MOM	53 MOhm	BuyTpenHee conpoTusierue, MOM 0,16igjég Internal resistance, MOhm 0.1613:3;53
Published electrical value	0.1 V	O6paTHbI# TOK CETKH [EPBOH (IPH HAMPAXCHUH CETKH Inverse grid 1 current, at grid 1 voltage –2 V, uA =0.1
nepo –	0.1	nepo –2B), MKA i, =0,1
MOCETKE MEPBOM ovh tereevenninn	1.15	MOCETKE MEPBOM ovh tereevenninn.. 4,15+1,15 withregardtograd 1 ot 4.15+1.15
TIO CETKe TPETHel (MPH HAMPAKEHHH CETKH TPETHel with regard to grid	5	TIO CETKe TPETHel (MPH HAMPAKEHHH CETKH TPETHel with regard to grid 3, at grid 3 voltage –3V =05
BXOMHAT © oot ttte et e ae s eeeareaerenaannns	0.6	BXOMHAT © oot ttte et e ae s eeeareaerenaannns 4,1+0,6 o o 11 4.1+0.6
Published electrical value	5	4 -1 S 2,54+0,5 OULPUL ittt e 2.510.5

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
APOXOMHAN .. evvenevnninnenreancsosnnnnneenns =	0.035	APOXOMHAN .. evvenevnninnenreancsosnnnnneenns =0,035 transfer e =0.035
KATOZ—TIOOOTPEBATEID .« ot v vvveernennrnnnnnnnn =	4.6 V	KATOZ—TIOOOTPEBATEID .« ot v vvveernennrnnnnnnnn =46 cathode-to-heater C..o i, =4.6
JneXTpHYECKHE NapaMeTphl B TeyeHHe	5000	JneXTpHYECKHE NapaMeTphl B TeyeHHe 5000 4 kcruty- Electrical parameters over 5000 operating hours:
aTaltHu: transconductance, with regard to grid	2.5 V	aTaltHu: transconductance, with regard to grid 1, mA/V ... =2.5
KPYTH	2.5 mA	KPYTH3Ha XapaKTepACTHKH MO ceTke nepeoit, MA/B =2,5
Published electrical value	0.5 mA	o0OpaTHBI TOK CETKH NMEPBOA, MKA =0,5 inverse grid 1 current, MA ceerueen.. =0.5
Published electrical value	30	H3MCHEHHE KPYTH3HBI XapaKTEPHCTHKa, % 30 change in transconductance, % 30
TlpenenbHble	3	TlpenenbHble 3HAYEHUA NONYCTHMBIX Limit Values of Operating
HAKAIA ocvvninnnnn	6	HAKAIA ocvvninnnnn 6,6 6,0 heater coovviiriiiinnnn., 6.6 6.0
QHOMA cvvihinninn	120	QHOMA cvvihinninn 120 anode iiiiie., 120
CETKH BTOPOR	120	CETKH BTOPOR 120 Brd2 e 120
[OPH TONOXKHTENLHOM IOTEH- tial	9	[OPH TONOXKHTENLHOM IOTEH- tial . 9
[Majle [ONOrpeBaTeiy	0	[Majle [ONOrpeBaTeiy 0 with heater at negative poten-
MPH OTPHLATENLHOM INOTEH- tial	120	MPH OTPHLATENLHOM INOTEH- tial 120
pacceHBacMas aHoIOM	0.9	pacceHBacMas aHoIOM 0,9 atanode 0.9
paccenBaeMas CeTKOH BTOPO#	0.6	paccenBaeMas CeTKOH BTOPO# ... 0,6 atgrid2..... .0l 0.6
Bo, MOM	1 MOhm	Bo, MOM 1 Resistance in grid 1 circuit, MOhm 1
—y	2	—y 2 y Gy Ammm
!i l sA LA	7	!i l sA LA 7 ALA
Published electrical value	0	0 0 10 20 30 40 50 B0 UgyV 0w 0 lav

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	0	1] — aHOOHO-CeTOYHas; 2 — CETOYHas (0 CETKE BTOPOi) BKJIOUCHHE)
Un=	6.3 uA	Un=63V, Ua=120V, Ugp; =120V, Ug=-2V Un=6,3
Published electrical value	2	1 — anode-grid; 2 — grid (for grid 2) triode):
Un=	63 V	Un=63 V, Us=120 V, Ug; =120 V, Ugy1=-2 V Un=63V
Published electrical value	0	0 YT e ramnily
Published electrical value	8	8 VANan oS 15 S= il 8
Published electrical value	12	24g o] BEBEE S 12
iiB g	3	iiB g 3
Published electrical value	220	0 20 40 50 80 100 /120 140 160 160 200 220 Uay
Ugiv	-5	Ugiv -5
Published electrical value	3	1 — aHOOHbIE; 2 — CETOYHO-AHOAHBIE (IO CETKE BTOPOif) 1 — kpyTH3HA; 2 — QHOAHO-CETOYHasA;, 3 — CeTOYHas
Un=	120	Un=6,3V, Up=120V (o cetxe BTOPO#)
Published electrical value	2	1 — anode; 2 — grid-anode (for grid 2)
Un=	3	Un=6.3V, Ug,=120V] — transconductance; 2 — anode-grid; 3 — grid (for
grid	2	grid 2)
Un=	120	Un=63V, Usa=120V, Upp=120V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
TEPBOR, HE BOME E iiiriiien e	-1.5	TEPBOR, HE BOME E iiiriiien e, -1,5 grid 1 electron current cutoff, max. —1.5

TUBE TINKER

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