



ELECTRONIC TUBE REFERENCE

6E15P

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Russian high-voltage tetrode designed for specialized high-voltage electronic service. Available translated source material supports the high-voltage role without a more specific functional assignment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 625 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
TRANSCONDUCTANCE	0.0007 S
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM SCREEN VOLTAGE	60 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	0.15 W
<i>Confirmed Russian 6E15P source: normal anode maximum 5 kV; cold switching up to 10 kV only with anode resistance $\geq 0.5 \text{ M}\Omega$. Max anode current 10 mA (not necessarily cathode-current limit); max heater-cathode $\pm 150 \text{ V}$. Screen max 60 V; anode dissipation 10 W, screen dissipation 0.15 W. Existing parameter values not reconciled; beware OCR contamination.</i>	

BricokoBonbTHbiA TeTpoa 631511 npeanasnauen nns The 631511 high-voltage tetrode has been designed

SOURCE OPERATING CONDITIONS

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
Published electrical data	16; 6.3; 6.3	16BN 6,3 heater L. 6.3
Published electrical data	5; 103; 5; 103	BHOMA .ottt ittt iie e et iieaaiaaea 5-103 anode ... 5-103
Plate current	1.15 mA	BHOMA .ottt ittt iie e et iieaaiaaea 5-103 anode ... 5-103 CeTKH BTOPOH iiitnianeeinnannnn, 25 grid 2 .. 25 CeTKH nepsoit B paboueit Toyke (nNpH Toke aHonda grid 1 at operating point, at anode current 2 mA —2.45=1.15
Plate current	1.15 mA	CeTKH BTOPOH iiitnianeeinnannnn, 25 grid 2 .. 25 CeTKH nepsoit B paboueit Toyke (nNpH Toke aHonda grid 1 at operating point, at anode current 2 mA —2.45=1.15 2MA) —245+1,15
Plate current	1.15 mA	CeTKH nepsoit B paboueit Toyke (nNpH Toke aHonda grid 1 at operating point, at anode current 2 mA —2.45=1.15 2MA) —245+1,15 Current, A:
Plate current	2 mA	1- 0,625+0,125 heater 0.625=0.125 grid 2, at anode current 2 mA
Plate current	1073 mA	heater 0.625=0.125 grid 2, at anode current 2 mA =<75-1073
Plate current	1073 mA	grid 2, at anode current 2 mA = <75-1073 CETKH BTOpO#t (Npu ToKe anHona 2 MA) =75-1073
Transconductance	1073 mA/V	=<75-1073 CETKH BTOpO#t (Npu ToKe anHona 2 MA) =75-1073 Transconductance, mA/V
Transconductance	6 mA/V	CETKH BTOpO#t (Npu ToKe anHona 2 MA) =75-1073 Transconductance, mA/V 1.6+.g'\$_

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	55 mA/V	Transconductance, mA/V 1.6_+.g'_§ KpyTtaina xapakvrepuctuky, MA/B 1,61%'_55
Published electrical data	1.61; 55	KpyTtaina xapakvrepuctuky, MA/B 1,61%'_55
Published electrical data	=1	OOpaTHBil TOK CETXH nepBOH, MKA =1
Plate current	0.1 mA	OOpaTHBil TOK CETXH nepBOH, MKA =1 Inverse grid 1 current, A =1 Grid 1 cutoff voltage, at anode current 0.1 mA,V,
Plate current	3 mA	Inverse grid 1 current, A =1 Grid 1 cutoff voltage, at anode current 0.1 mA,V, 3anMparolllee HaNpsKEHHE CETKU NEpBOH (NpU Toke
Plate current	10 mA	Grid 1 cutoff voltage, at anode current 0.1 mA,V, 3anMparolllee HaNpsKEHHE CETKU NEpBOH (NpU Toke At MOST - 10
Published electrical data	10	At MOST - 10
Plate current	2350 mA	At MOST - 10 anona 0,1 MA), B, ueGonee —10 Amplification factor, at anode current 2 mA 2350
Plate current	2350 mA	anona 0,1 MA), B, ueGonee —10 Amplification factor, at anode current 2 mA 2350 Koadbdunuest ycunenue (npU Toke anona 2 MA) ... 2350
Plate current	2350 mA	Amplification factor, at anode current 2 mA 2350 Koadbdunuest ycunenue (npU Toke anona 2 MA) ... 2350 Emkocts, n®: Capacitance, pF:
Published electrical data	5; 5	BXOOHAM . ..t iittinain e ienaa e, 5 INPUT ..ottt 5
Published electrical data	0.7; 0.7	BBIXOOHAM itiiieinineaninannn.. 0,7 OULPUL Lo e 0.7
Published electrical data	=0.05; =0.05	IPOXOHHAN ..ttt ittt e it iieannn =0,05 transfer =0.05
Warm-up time	=350 s	IPOXOHHAN ..ttt ittt e it iieannn =0,05 transfer =0.05 BpeMA FOTOBHOTH, © ..ot vvin e iiee e =350 Warm up period, s
Warm-up time	=50 s	BpeMA FOTOBHOTH, © ..ot vvin e iiee e =350 Warm up period, s ol =50

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Warm-up time	2000 s	Warm up period, s ol =50 DnexpTpyeckue napameTpsl B Teuenue 2000 v ykcnnny-
Published electrical data	2000	DnexpTpyeckue napameTpsl B Teuenue 2000 v ykcnnny-
Transconductance	=0.7 mA/V	DnexpTpyeckue napameTpsl B Teuenue 2000 v ykcnnny- aTauMH: Electrical parameters over 2000 operating hours: KDYTH3HA XapaKTepUCTHKH, MA/B =0,7 transconductance, mA/V
Transconductance	=0.7 mA/V	aTauMH: Electrical parameters over 2000 operating hours: KDYTH3HA XapaKTepUCTHKH, MA/B =0,7 transconductance, mA/V l =0.7
Transconductance	=0.7 mA/V	KDYTH3HA XapaKTepUCTHKH, MA/B =0,7 transconductance, mA/V l =0.7

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	3	I'Ipene.m,nue 3HAYEHHA QONYCTHMBIX Limit Values of Operating
Published electrical data	7; 5.7; 7; 57	Hakana 7 5,7 heater 7 57
Published electrical data	5103; 5.103	AHOMR - .. einrieninnnnnnnn... 5103 anode . ¢ 5.103 '
Published electrical data	8	8HOIA NpH BKIIIOYEHHA Ha X0N101- anode on switching from cold, at
Published electrical data	=0.5; 10; 103; 0.5; 10; 103	asona =0,5MOmMm) 10- 103 0.5 MOhm 10-103
Published electrical data	6020; 60	zc::: :TO:S:: 6020 erid2 .o 60
Published electrical data	1; -2	ETKM MEPBOR v - grid 1 ... -2
Published electrical data	150	NpH MOMOXHTENLHOM MOTEH- tial 150
Published electrical data	150	uKaje noforpesatend 150 with heater at negative poten-
Plate current	10 mA	uKaje noforpesatend 150 with heater at negative poten- NpH OTPHUATENBHOM MOTEH- tial 150 Uwajie noforpepatend 150 Anode current, mA 10

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	10 mA	NpH OTPHUATENBHOM MOTEH- tial 150 Uwajie noforpepatend 150 Anode current, mA 10 Tok avoma, MA 10
Plate current	10 mA	Uwajie noforpepatend 150 Anode current, mA 10 Tok avoma, MA 10 MowHOCTh, BT: Power dissipation, W:
Published electrical data	10; 10	pacceMBaeMas aHOOOM 10 atanode ooo. 10
Published electrical data	0.15; 0.15	paccensaemas ceTkod Bropoit 0,15 atgrid2 0.15
Published electrical data	0.1	B UENH CETKU NEPBOA 0,1 Resistance, MOhm:
Published electrical data	1; 0.1	B UEMU CETKH BTOPOIt NPH Hanps- in grid 1 circuit , .. 0.1
Published electrical data	2	XEHHUHK CETKH BTOPOI#: in grid 2 circuit:
Screen voltage	1073 V	XEHHUHK CETKH BTOPOI#: in grid 2 circuit: He Gonee 40 B 5- 1073 at grid 2 voltage at most 40 V 5-1073
Screen voltage	40 V	He Gonee 40 B 5-1073 at grid 2 voltage at most 40 V 5-1073 He MeHee 40B,
Screen voltage	1073 V	 5-1073 at grid 2 voltage at most 40 V 5-1073 He MeHee 40B, .. 10- 1073 at grid 2 voltage at least 40 V 10-1073
Screen voltage	175 V	He MeHee 40B, ... 10- 1073 at grid 2 voltage at least 40 V 10-1073 Temnepatypa 6annoua, °C..... 175 Bulb temperature, °C 175
Screen voltage	175 V	 10- 1073 at grid 2 voltage at least 40 V 10-1073 Temnepatypa 6annoua, °C..... 175 Bulb temperature, °C 175
Bulb temperature	175 C	Temnepatypa 6annoua, °C..... 175 Bulb temperature, °C 175
Published electrical data	5	YcpenHeuHble aHOAHbIE U CETOMHO-AHOAHBIE XAPAKTEPUCTHKH: 5 \! : ""

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	2; 3	I — Tok aHoma; 2 — TOK CeTKH BTOPOH; 3 — Haubonpwas N0- L X
Published electrical data	4	NyCTUMas MOIIHOCTh, PAacCeMBaeMasi aHOIOM 4 TR
Published electrical data	63; 25; 7	Un=63V, Ugp=25V i SET 7
Plate current	2 mA	. L J . L~ 1. J Averaged anode and grid-anode characteristics: I > iy ! — anode current; 2 — grid 2 current; 3 — maximum permis- 2 - L4
Plate current	11 mA	Averaged anode and grid-anode characteristics: I > iy ! — anode current; 2 — grid 2 current; 3 — maximum permis- 2 - L4 sible anode dissipation 11L&
Plate current	25 mA	! — anode current; 2 — grid 2 current; 3 — maximum permis- 2 - L4 sible anode dissipation 11L& Un=63V, Uga=25V T :
Plate dissipation	4 W	sible anode dissipation 11L& Un=63V, Uga=25V T : 0 1 2 J 4 g Uprv
Published electrical data	0; 1; 2; 4	0 1 2 J 4 g Uprv
Published electrical data	0; 1; 2; 3; 4; 5; 2; 3	0 1 2 3 4 5 UguV g ! 2 3 4 5 va,kv
Published electrical data	2; 3; 1; 2; 3; 10	I — Tok aHoma; 2 — TOK CeTKH BTOpOH; 3 — Haubonbluas 1 — TOK aHOna; 2 — TOK CETKH BTOPOit; 3 — Haubonpiuas 10NyCTH-
Published electrical data	6.3; 50; 63; =60	Un=6,3V, Up=50 V Un=63 V, Ugr =60 V
Plate current	3 mA	Un=6,3V, Up=50 V Un=63 V, Ugr =60 V Averaged anode and grid-anode characteristics: Averaged anode and grid-anode characteristics: I — anode current; 2 — grid 2 current; 3 — maximum permis- ! — anode current; 2 — grid 2 current; 3 — maximum
Plate current	3 mA	Averaged anode and grid-anode characteristics: Averaged anode and grid-anode characteristics: I — anode current; 2 — grid 2 current; 3 — maximum permis- ! — anode current; 2 — grid 2 current; 3 — maximum permissible sible anode dissipation

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	60 mA	I — anode current; 2 — grid 2 current; 3 — maximum permissible anode current; 2 — grid 2 current; 3 — maximum permissible anode dissipation Un=63V, Ugp=50 V Un=63V, Ugp=060V
Plate dissipation	60 W	sible anode dissipation anode dissipation Un=63V, Ugp=50 V Un=63V, Ugp=060V
Published electrical data	8	8 EEEY
Published electrical data	419	P HT Ua=ZxV*419
Published electrical data	10	» //zmv 10
Published electrical data	=2	Kig =2V
Published electrical data	7	III 7
Published electrical data	8	pSxv 8
Published electrical data	3; 4	3 /anny / 4
Published electrical data	-4; -3; -2; -1; 0; -5; -4; 3	U;J,V -J -4 -3 -2 -1 0 UV6 -5 -4 3 2 4 0 Uhia -8 & 4 Z 0
Published electrical data	6.3; 25; 63; =50; 6.3; 060	Un=6,3V, Ugp=25V Un=63V, U =50 V Un=6,3V, Uga=060 V
Published electrical data	63; 25; 63; 50; 6.3; 60	Un=63V, Ugp=25V Un=63V, Up=50V Un=6.3V, Ug=60 V



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1981 Russian Tubes Katsnelson and Larionov

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	2 mA	при и,—бз В, ид_БкВ,(1,—25 В, Га=2 мА

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen current	<100 µA	Ток 2-й сетки . , <100 мкА
Reverse current	1 MKA	Обратный ток 1-й сетки . \<`1 MKA
Published electrical parameter	10 V	Напряжение 1-й сетки запирающее , —10 В
Published electrical parameter	<0.05 pF	проходная . , о в о в а в <0,05 пФ
Service life	>2000 h	Наработка я в к в е ь > 2000 ч
Reverse current	<3 µA	обратный ток 1-й сетки . , , . <3 мкА
Transconductance	>0.7 mA/V	крутизна характеристики . >0,7 мА/В
Heater voltage	5.7–17 V	Напряжение накала . 5,7—17 В
Plate voltage	5 kV	Напряжение анода , 5 кВ
Screen voltage	60 V	Напряжение 2-й сетки . 60 В
Published electrical parameter	20 V	Напряжение 1-й сетки (отрицательное) 20 В
Published electrical parameter	150 V	Напряжение между катодом и подогревателем , 150 В
Plate current	10 mA	Ток анода . 10 мА
Published electrical parameter	<40 V	при (сэ<40 В. , ,

TUBE TINKER

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