

Improved-reliability Russian triode designed for low-frequency voltage amplification, emphasizing dependable operation in electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 220 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0188 S
AMPLIFICATION FACTOR	17
MAXIMUM PLATE VOLTAGE	100 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	60 mA
Published electrical characteristics and permissible ratings promoted where OCR labels were unambiguous; remaining published numeric table entries retained in TUBE_SECTION_PARAMETER.	

Triode of improved reliability Tpuon nosbimeHHOfi Hamexuoctu 6C31b mpen- The 6C31b triode of improved reliability is HasHaueH O YCHJEHHA Harpsi>KeHus HHU3KOI ua- designed for amplification of low-frequency vol-

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	6	6C31b Tpuox noBbinieHHOH HaAEXKHOCTH
Tpuon nosbimeHHOfi Hamexuoctu	6	Tpuon nosbimeHHOfi Hamexuoctu 6C31b mpen- The 6C31b triode of improved reliability is
Tpuoapl nosoiienHolt HamexuocTd	6	Tpuoapl nosoiienHolt HamexuocTd 6C31B BoHI- The 6C31bB triodes of improved reliability are
CTEKJSHHOM	0	CTEKJSHHOM 0aJ/JIOHe ¢ BOCHbMbIO MMOKHME BBIBOJAA- provided with eight flexible leads and an indi-
Tpuoabl nosblieHHoil HagexHocTn	6	Tpuoabl nosblieHHoil HagexHocTn 6C31B ye-
TOMYMBBL K BO	6	TOMYMBBL K BO3JEHCTBHIO OKpYXKallied TeMnepa- The 6C31b triodes of improved reliability are
Published electrical value	40	+40°C, as well as to mechanical loads: linear
oo	15	oo 100 g, suGpanvorHbIX A0 15 g, ynapHBIX MHO- loads up to 100 g, vibration loads up to 15 g,
roKpaTHelXx g	150	roKpaTHelXx g0 150 g, yoapHBHIX OAMHOYHBIX JO multiple impact loads up to 150 g and single im-
Published electrical value	500	500 g. pact loads up to 500 g.
l'apanTupoBaHHas goapoBeynocts	2000	l'apanTupoBaHHas goapoBeynocts 2000 uacos. Service life guarantee: 2000 hr.
Published electrical value	3	3JEKTPHUYECKHE JIAHHBIE
CgIk	0.9 pF	CgIk 4,1+0,9 pF Cgla
NPEOEJABHO JONYCTHUMBIE	3	NPEOEJABHO JONYCTHUMBIE 3KCHJAYATAILLHOHHBIE NAHHBIE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	200 V	U, 100 V Upn 200 V
P,%)	220	P,%) 25W Tfiamlon—xa 220°C
Published electrical value	10	1) TIpua sanepcto#i Jamme, npu I, << 10 pA.
Published electrical value	3.5 W	2) TIpua moaroseunoctd 125 4 P, =3,5 W.
With service life of	35 W	With service life of 125 hr, P, =35 W.
Tpuon NOBLIIEHHON HANEKHOCTH	3	Tpuon NOBLIIEHHON HANEKHOCTH 6(: 3' E
Published electrical value	39	. S0max 39max]
' . VAL	-0.5 V	' . VAL -0,5V ismll/v L
Published electrical value	21 V	0 Z2 & 6 8 upnv 0 20 40 60 Ua. V -8 -6 ~4 -2 0 21Uy

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Hawuboabimnit Bec	4	Hawuboabimnit Bec 4 e. Maximum weight: 4 gr.


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1970 Russian Tubes Mashpriborintorg

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

1970 RUSSIAN TUBES MASHPRIBORINTORG

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol U,	63 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol I,	40±10 mA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol I,	220+22 mA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol I,	<2 mA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol U,	50 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol S	188 mA/V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol C _{gk}	4.1+0.9 pF	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol C,	<15 pF	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol C _p ,	<8 pF	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol U _y	7 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol I,	60 mA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol U,	100 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol U _{pn}	200 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol U,	330 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol R _g	1 MΩ	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol x _a	220 °C	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.

1981 Russian Tubes Katsnelson and Larionov

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1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	-22 mA	Translated from Russian source; OCR line: Ток накала, мА. , ... , 220=22 220--22
Plate current	-10 mA	Translated from Russian source; OCR line: Ток анода, мА 40 Ю 40=-10
Transconductance	188 mA/V	Translated from Russian source; OCR line: Крутизна характеристики, мАВ . 18-\$ 188
Transconductance	5.7 mA/V	Translated from Russian source; OCR line: Крутизна характеристики при Ов=5,7 В,
Amplification factor	-5	Translated from Russian source; OCR line: Коэффициент усиления й .. 17i5 17=-5

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service life	5000 h	Translated from Russian source; OCR line: Нарботка, ч . й >2000 > 5000
Heater voltage	-6.6 V	Translated from Russian source; OCR line: Напряжение накала, В . 5,7—7 — 6—6,6
Plate voltage	100 V	Translated from Russian source; OCR line: Напряжение анода, В , 100 100
Plate dissipation	2.5 W	Translated from Russian source; OCR line: Мощность, рассеиваемая анодом Вт й 2,5 2,5

TUBE TINKER

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