

Russian miniature triode-pentode designed for electronic amplifier service; translated source evidence does not support a narrower functional assignment without speculation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 810 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0025 S
AMPLIFICATION FACTOR	7.5
Published ratings/characteristics promoted where clearly identified; additional bilingual values retained as parameters.	

SECTION2 Pentode	
TRANSCONDUCTANCE	0.0072 S
MAXIMUM PLATE DISSIPATION	3 W
Published ratings/characteristics promoted where clearly identified; additional bilingual values retained as parameters.	

Tpuon-nenton 6P3I1 npexuasmavenm npas pa- The 6@3I1 triode-pentode is designed for ope- Tpuon-nearon 6P3I1 Brinyckaercs B MHHHA- The 6@3I1 triode-pentodes are miniature devi- Tpuon-nerron 6P3I1 ycToluuB K BO3IAEHCTBHIO The 6@3I1 triode-pentodes are resistant fo am-

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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service life	3000 h	MHOTOKDaTHHX 10 35 g. HaunGonpmmii Bec 25 e Maximum weight: 25 gr. lapantupoBannas jonaroseuHocts 3000 wuacos. Service life guarantee: 3000 hr.
Service life	3000 h	HaunGonpmmii Bec 25 e Maximum weight: 25 gr. lapantupoBannas jonaroseuHocts 3000 wuacos. Service life guarantee: 3000 hr.
Service life	3 h	lapantupoBannas jonaroseuHocts 3000 wuacos. Service life guarantee: 3000 hr. 3JIEKTPHYECKHE JIAHHBIE

195X RUSSIAN

Section 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	170; 140	U, 170V Loimp!) 140 mA
Published electrical data	170; 35	Uge 170V Iooimp ') 35 mA
Published electrical data	1; =70; -11	1) Ha ropH3OHTAaJbHOM YYACTKE XAPAKTEPHCTHKH [PH Uyp =70 V, Ugy=-11V,
Published electrical data	050; 10	f=050 Hz u Q (cksaxuocru) = 10,
Published electrical data	=70; =-1	On the horizontal portion of the characteristic curve at U, =70 V, Uy =-1V,
Published electrical data	50; 10	f=50 Hz and Q (on-off time ratio) = 10.
Published electrical data	2	2) Ilpu
Published electrical data	2.2; 8.5	CgIkT 2,2 pF Cakp 8,5 pF
Published electrical data	0.4; <03	Caxr 0,4 pF Cotap <03 PF
Published electrical data	37; 002	Cgtakt 37 PF Cargip 002 PF

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	9.3	Cg _l k _p 9,3 pF
Published electrical data	3	NPEAEJDBHO OONYCTHMBIE 3KCHJAYATALHOHHBIE NAHHbBIE

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	250; 15	U _{ap} 250 V 15 mA
Published electrical data	600; 250	U _{at} imp!) 600V 250 mA
Published electrical data	275; 60	U _{ap} 275 V 60 mA
Published electrical data	2; 300; 100	U _{ap} 2) 300 V 100 V
Published electrical data	300	U _{go} ?) 300V
Published electrical data	8	P _{ap} 8W
Published electrical data	1; 4	1) HauGosbinass IPOAOMKHTENBHOCT HMIYJbCAa He NOJKHA npeBmars 4% mepuorna,
Published electrical data	0.8	u 0,8 pus.
Published electrical data	4	Maximum pulse duration should not exceed 4 per cent of the period, though it
Published electrical data	0.8	should be not more than 0.8 us.
Published electrical data	2	2) Ilpu BKJIOYEHWH HA XOJNOAHYIO JaMmiy.
Published electrical data	8	8) ITpr aBTOMATHYECKOM CMEUIEHHH.
Published electrical data	4	4) ITpn (DUKCHPOBAHHOM CMELICHHH,
Published electrical data	785	785 max
Published electrical data	6	Tpuoa-nenrox, 6 m3 I l
Published electrical data	5	5 - e fl/ VAV /
Published electrical data	2	2 L= PAV RN
Published electrical data	50; 100; 150; 200; =285; =20; -45; -10	[50 100 150 200 Ugr.V UW,V'J,U =285 =20 -45 -10 -85 0
Published electrical data	=1; 7	Ly =1(U,7) Lyp=f (UgT)

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	=0	Upr =0V
Published electrical data	150; -1; 150	150 \ 1 ! Ugr- -1V 150 <
Published electrical data	1; 100; 150; 200; 250; 0; 50; 100	1 K 100 150 200 250 Ugp¥ 0 50 100 150 200 250 UgpV
Published electrical data	=1	Iap' Ig2 =1 (Uap) Iapy Ig2 =f (Uap)
Published electrical data	=63; =63	— Iap U, =63 A% Iap U, =63V
Published electrical data	6; 3	6 @3 I I Tpuoa-nenron
Published electrical data	7; 200	Uyl 7 ™ 200 TT T ; pym— T
Published electrical data	24; 11; 5	24'11' I Upr =TT A = 5V
Published electrical data	1; 40; 5; 12	< INAAA] 1V = 40 WA 5F] "] 12V
Published electrical data	1	s NARY I - S K - 1Ay
Published electrical data	50; 100; 150; 200; 250; 50; 100; 150	[/ 50 100 150 200 250 (/a,,_l/ g 50 100 150 200 250 Uap,V
Published electrical data	=1	Iap, Ig2 =i (Uap) Iap, Ig2 =1 (Uap)
Published electrical data	=1; =200; 230	- — =1y Ugy =200V — — —Iy Ugy=230V
Published electrical data	20; 18; 16; -14; -12; -10; -8; -6	Ugs.v 20 18 16 -14 -12 -10 -8 -6 -4 -2 &



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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
Triode transconductance	2.5 mA/V	TriodeSection

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode amplification factor	7.5	TriodeSection
Guaranteed service life	3000 h	PublishedGuarantee

1970 RUSSIAN TUBES MASHPRIBORINTORG

Section 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode transconductance	7.2 mA/V	PentodeSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum pentode plate dissipation	3 W	PentodeSection



SOURCE OPERATING CONDITIONS

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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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	6 %	6%7П аya
Published electrical parameter	82 В	6Ф3П. Аналог ЕСЫ82 в 7
Published electrical parameter	1.5 V	для 6Ф3П при 0,=6,3 В, Идл=170 В, Изл=—1,5 В,
Published electrical parameter	170 V	Пд.п 170 В, Псш—Н 5 В, !}„д 170 В;
Published electrical parameter	200 V	Пиц—иб В Пс<...—200 В

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	10 %	ных искажений 10%), Вт . .
Published electrical parameter	2 kΩ	Напряжение виброшумов (при Ка—2 кОм) мВ о®
Published electrical parameter	1 V	О. с1 =—1 В.
Published electrical parameter	3 %	Н 3%
Published electrical parameter	7 V	и -# 7 В. 7
Published electrical parameter	758 V	0 25 50 25 100 125 150 758 В —20-18-16
Published electrical parameter	140 Ω	В. т—570 Ом, Вк.п== 140 Ом;

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