



ELECTRONIC TUBE REFERENCE

6F4P

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Russian miniature triode-pentode whose pentode section is designed for video and low-frequency output stages while the triode serves complementary amplifier functions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 720 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	600 Ω
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	6.5
<i>Published ratings/characteristics promoted where clearly identified; additional bilingual values retained as parameters.</i>	

SECTION2 Pentode	
TRANSCONDUCTANCE	0.011 S
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM PLATE DISSIPATION	4 W
<i>Published ratings/characteristics promoted where clearly identified; additional bilingual values retained as parameters.</i>	

Tpuon-nenron 6®4I1 npennasnaven: neHroqHast The pentode part of the 6®4I1 triode-pentode is — JMJg paloThl B BBIXOAHBIX KaCKalaX BHIEO- designed for operation in output stages of video — B pasamu- and LF amplifiers and its triode part is suitable Tpuon-nenron 6®4I1 BuimyckaerCS B MUHHATIOP- The 6®4I1 triode-pentodes are miniature devi-

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	BHOpAUMOHHLIX 10 2,5 g. Hauboasummit Bec 20 e. Maximum weight: 20 gr. [apantupoBannas pnosroBeynocts 3000 wacos. Service life guarantee: 3000 hr.
Service life	3000 h	Hauboasummit Bec 20 e. Maximum weight: 20 gr. [apantupoBannas pnosroBeynocts 3000 wacos. Service life guarantee: 3000 hr.
Service life	3000 h	[apantupoBannas pnosroBeynocts 3000 wacos. Service life guarantee: 3000 hr.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	0.1	APT Ryp=0,1 MQ.

195X RUSSIAN

Section 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	4; 4	4 pF Cc akp 4 pF
Published electrical data	0.6; 0.1	CakT 0,6 pF C glap < 0,1 pF
Published electrical data	2.7; 0.01	CglaT 2,7 pF C aTglp < 0,01 pF
Published electrical data	9.5; 0.0	9,5 pF C gTglp < 0,0i2 pF
Published electrical data	6; 1	6DA4[1 Tpuon-nenron
Published electrical data	3	NPEJEJIBHO NONYCTHMBIE 3KCNJYATALMOHHBIE NAHHbBIE

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	69; 57; 4.0	U, 69V 57V Psp 4,0 W
Published electrical data	550; 12	U,p) 550V IkT 12 mA
Published electrical data	250; 40	Uap 250 V L, 40 mA
Published electrical data	850; +150	Uzp!) 850V Ukn +150
Published electrical data	1	Rgr 1,0 MQ
Published electrical data	1	1) Tlpu BKJIOYEH HH HA XOJIOAHYIO JaMmmy.
Published electrical data	65.5	65,5 max
Published electrical data	25	25max
Published electrical data	14	; JANITANTAN) A 14
Published electrical data	12	d iy AEF Sy ARy / 12
Published electrical data	17119	ANEN N_J 17119
Published electrical data	2	, ANAWAY.eVIN 2 Y,
Published electrical data	0; 50; 100; 150; 200; -3; -2; -1	0 50 100 150 200 UgrV Uyr.V -3 -2 -1 0
Published electrical data	1	IaT=f(UaT) Lr=1(Ugr)
Published electrical data	6; 3; -63	- - paT max Uh=6'3 v U,—63V
Published electrical data	=63	— _ — - __pap max U,=63V
Published electrical data	50; 100; 150; 200	g 50 100 150 200 UaplV
Published electrical data	3	],(3\!A . \J Lap, TS l
Published electrical data	=15	JEI= " }/ \ =15V
Published electrical data	-2	AP dER -2V -
Published electrical data	50; 180; 200; 50; 100; 150; 200	50 w00 180 200 UgyV g 50 100 150 200 U%V
Published electrical data	=63	— — —Pup max U,=63V
Published electrical data	3	- - —Pap max Uh'—fi'3V
Published electrical data	=200; =220	Ugp =200 V UEQ =220V
Published electrical data	4	I ,4/ \ Iap =f (Uap)
Published electrical data	63	- - pap max Up=63V
Published electrical data	0; 50; 100; 180; 200	0 50 100 180 200 Ugy
Published electrical data	64	Triode-pentode 64l
Published electrical data	-4; =0	-4 N~ ' \ Ugi =0V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	50; 100; 150; 200; 50; 100; 150	g 50 100 150 200 UggV g 50 100 150 Uap, /
Published electrical data	=1	Iap =i (Uap) Ig? =1 (Uap)
Published electrical data	6; 3; =63; =170	- - Papmax Uh=6'3V U, =63V Uy, =170V
Published electrical data	240	Uypo=240V
Published electrical data	0; 50; 100; 0; 50; 700; 150	0 50 100 0 50 700 150 Unpl
Published electrical data	1	Igo=1(Uap) lg2 =f (Uap)
Published electrical data	=63; =200; =63; =220	U,=63V Ugo =200 V U, =63V Uy, =220V
Published electrical data	6	6DA4Il'l Tpuon-nentop,
Published electrical data	8	8 A\ QAN UpTV
Published electrical data	51; 25	A ANARN Ypr=51¥ NN "25Y
Published electrical data	3	YON iy - NN~ L 3V
Published electrical data	4	%4 pIAN W -
Published electrical data	0; 100; 200	0 100 200 UgpV
Published electrical data	=1; 1	Iy =1(Uyp) lea=1 (Uay)
Published electrical data	=63; =230; =63; =240	U,=63V Uy =230 V U, =63V Ugp =240V
Published electrical data	0; 4; 17; 20; 2; 4; 8; 42	0 4 & 17 # 20 2% RyaR g 4 8 42 M6 20 24 RyKQ
Published electrical data	=1; =1	Lp Lo Pip ki =1(Rap) Lip Tgz Pip ki =1(Ryp)
Published electrical data	=63; =63	_._.Iap U,=63V —_— —Iap U,=63V
Published electrical data	=200; 240	Py, Ugo =200 V — P, Ugy=240 V
Published electrical data	=09; 1	Uglmein =09 V Ugm@p=1V



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 plate resistance	600 Ohm	TriodeSection
Triode transconductance	4 mA/V	TriodeSection
Triode amplification factor	6.5	TriodeSection
Guaranteed service life	3000 h	PublishedGuarantee

1970 RUSSIAN TUBES MASHPRIBORINTORG

Section 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode transconductance	11 mA/V	PentodeSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum pentode plate voltage	550 V	ColdSwitching
Maximum pentode plate dissipation	4 W	PentodeSection



SOURCE DATA APPENDIX

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	200 V	0 700 200 8 8-3,5 -д,5 —15 -050 0 700 200 В
Published electrical parameter	185 V	при (, =6,3 В, Изе= 100 В, Оан= 185 В, Исэп= 185 В,
Published electrical parameter	160 OM	[гк.т=160 Ом, Кн,п=340 Эм

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