



ELECTRONIC TUBE REFERENCE

6F1P

Voltage - Triode Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

PENTODE-TRIODE

Russian triode-pentode designed for television and radio amplifier service, combining two amplifier sections in a miniature envelope.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 420 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	1 W
Published ratings/characteristics promoted where clearly identified; additional bilingual values retained as parameters.	

SECTION2 Pentode	
TRANSCONDUCTANCE	0.0062 S
MAXIMUM PLATE VOLTAGE	350 V
MAXIMUM PLATE DISSIPATION	2.5 W
Published ratings/characteristics promoted where clearly identified; additional bilingual values retained as parameters.	

Triode-pentode designed for television and radio amplifier service.

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	MHOTOKpaTHBIX fo 12 g. HanGonpwmuii Bec 20 e Maximum weight: 20 gr. l'apantuporanHaa RoaroseuHoctb 3000 wacos. Service life guarantee: 3000 hr.
Service life	3000 h	HanGonpwmuii Bec 20 e Maximum weight: 20 gr. l'apantuporanHaa RoaroseuHoctb 3000 wacos. Service life guarantee: 3000 hr.
Service life	3000 h	l'apantuporanHaa RoaroseuHoctb 3000 wacos. Service life guarantee: 3000 hr.

195X RUSSIAN

Section 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	-2; 4	Ugy —2V Rypp?) 4kQ
Published electrical data	<45; 1	lygp <45 mA vy 1K@
Published electrical data	=140	lpu ¢ =140V, Upp=—
Published electrical data	50	) IIPH £ — 50 MHe.
Published electrical data	2505; 1.2	Coner 2505 pF 1,2 pF
Published electrical data	5.8; 1; 3	C glkp 5,8'_:1_3
Published electrical data	0.35; 0.15; 3.8; 1	C akT 0,35+0,15 pF C akp 3,8+1 pF
Published electrical data	1.450; 35; 0.025	C glaT 1,450,35 pF C glap < 0,025 pF
Published electrical data	6	Tpuon-nenton 6 m I I-I
Published electrical data	3	NPEJEJNBHO NONYCTUMBIE 3KCNAVATAILHOHHLIE JAHHBIE

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	69; 57; 25	Uy 69V 57V Pap 25 W
Published electrical data	250; 07	Ut 250 V szp 07 W
Published electrical data	350; 13; 45	U, 350V Pr+ Pap + 13'g2p 45 W
Published electrical data	250; 14	Uap 250 V Lt 14 mA
Published electrical data	3; 14	Uap)y 3BOV lkp 14 mA
Published electrical data	200; 300	Ug2p) 200V Ugph 300V
Published electrical data	3; 175; 0.5	Ug2p 3 175V RgT 0,5 MQ
Published electrical data	350; 1	Ug2p H 350V Rglp 1 MQ
Published electrical data	3	3) APH
Published electrical data	2	2) Ilpu
Published electrical data	19; 5	19, 5max
Published electrical data	56.5	56,5 max
Published electrical data	5	PF22 5max
Published electrical data	0	\] /(%/ L Ups=0V
Published electrical data	4	YAV AP N&4V T+ N A
Published electrical data	40; 80; 120; 160; 200; 40; 80; 120	g 40 80 120 160 200 Ugy.V [/} 40 80 120 160 200 240 280 l/ap,y
Published electrical data	170	— " Pur max —_— = Ig2 Ug2= 170V
Published electrical data	1	/1 = mayy I
Published electrical data	6; -5; 4; 3; -2; -1; 0; 0	UV 6 -5 4 3 -2 -1 0 0 2 4 5 Upy ¥(eff)
Published electrical data	1	IaD' Igi' = f(Ugl) Iap' Ig2' Sip=1 (Ugl ~eff)
Published electrical data	=170	———— S, Ugy =170 V



SOURCE DATA APPENDIX

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	5 mA/V	TriodeSection
Triode amplification factor	20	TriodeSection
Guaranteed service life	3000 h	PublishedGuarantee

1970 RUSSIAN TUBES MASHPRIBORINTORG

Section 2 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Pentode transconductance	6.2 mA/V	PentodeSection

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum pentode plate voltage	350 V	PentodeSection
Maximum pentode plate dissipation	2.5 W	PentodeSection



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ELECTRON TUBE DATABASE

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	170 V	при (Он=6,3 В, (д.: =100 В, Исл=-2 В, И,а=170 В,
Published electrical parameter	10 kΩ	=10 кОм), мВ ,. . . <<200 —
Frequency	100 MHz	на частоте 100 МГц. й . 1
Published electrical parameter	2 kΩ	Напряжение виброшумов (при Ва=2 кОм),
Published electrical parameter	14 mA	при 1к= 14 мА. .. — 175 — 175
Published electrical parameter	10 mA	при /# не более 10 мА: :: — 200 — 200
Published electrical parameter	280 V	0 & 0 80 720 160 2008 0 40 80 7120 760 200 240 280 В
Published electrical parameter	6 %	6%7П аya
Published electrical parameter	82 в	6ФЗП. Аналог ЕСЫ82 в 7
Published electrical parameter	1.5 V	для 6ФЗП при 0, =6,3 В, Идл=170 В, Изл=— 1,5 В,
Published electrical parameter	200 V	Пиц— — —іб В Пс<...—200 В

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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