



ELECTRONIC TUBE REFERENCE

6N1P

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Russian double triode designed for low-frequency voltage amplification, widely suited to general small-signal amplifier stages requiring two medium-mu triode sections.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	4400 Ω
TRANSCONDUCTANCE	0.0045 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	25 mA

Bilingual Russian/English datasheet; English text used as primary extraction source.

SECTION2 Triode	
PLATE RESISTANCE	4400 Ω
TRANSCONDUCTANCE	0.0045 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Second physical triode restored.</i>	

Russian double triode for low-frequency voltage amplification.

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 parameter	225 mA	©225max
Source symbol K	4 A	K4aTod MepBOro TpHoda; 4 — MOOOrpeBaTesb; J — MOIOrPena-
Source symbol triode	1 A	1 — triode 1 anode; 2 — triode ! grid; 3 — triode ! cathode:
Heater	2 A	4 — heater; 5 — heater; 6 — triode 2 anode; 7 — triode 2 grid;
Source symbol OMANA30HE	4 A	BuOpannoHHble HArpy3kd B OMANA30HE 4acToT OT Vibration: at frequencies from 1 to 200 Hz with
Source symbol to	200 Hz	BuOpannoHHble HArpy3kd B OMANA30HE 4acToT OT Vibration: at frequencies from 1 to 200 Hz with
Source symbol B0	3 A	HOCTB BO3ayxa g0 98% mpu Temnepatype a0 25 °C. +70 °C. Relative humidity: up to 98% at up to 25 'C.
Source symbol eranences	250 A	BHOMA + v vvvvereanenneannnerasacnnneranences 250 anode ...e 250
Published electrical parameter	10.5 A	AROMA ..ovhevnrire et 5,6...10,5 anode iiieiiciiei 5.6—10.5
Source symbol 0	6 pA	O6paTHsbilt TOX ceTkH (TIPH CONMPPOTHBIE- . . R i
Source symbol ncneeeeees	3548 A	KOSQUIMEAT YCHACHHUA ovvveeinnncneeeeees 3548 AMDHfiCation factOr oveeeeeeseeseen 3548
Published electrical parameter	4 A	DnexTpHYeCKHe napaMeTpsl B Teyenue 5000 4 akcruty- Ist triode anode-to-2nd triode anode =0.2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol ovhhiiii	300 A	QHOMA ovhhiiii 300 anode i 300
Published electrical parameter	100 W	LHane IoNoTpepaTes 100 with heater at negative poten-
Source symbol oy	1 A	sty oy 1 AT T I T ITT
Published electrical parameter	6.3 V	Un=6,3V 50 AT EEEEEEEE
Source symbol V	50 A	Un=6,3V 50 AT EEEEEEEE
Published electrical parameter	63 V	Un=63V [L A8 T
Published electrical parameter	5 V	5 v}
Published electrical parameter	240 V	Up=240V . }180M120060V] A 18 ALA R
Source symbol M	120060 V	Up=240V . }180M120060V] A 18 ALA R
Source symbol A	18 A	Up=240V . }180M120060V] A 18 ALA R
Published electrical parameter	60 V	£ 60V 1 I A 2
Source symbol B	3 A	(ons Kaxgoro TpHO;a): DAKTEPUCTHKH (A1 KaXAOTO TPHOAR) Hbl B 3aBHCAMOCTH OT HAlpsKEHHS
Plate	63 V	1 — anode-grid; 2 — grid Un=63V
Published electrical parameter	125 V	2000 UprumpSOV 125V 11
Source symbol f	0 mA	f 0 A
Published electrical parameter	800 A	a'/ 800 AP P~ 150\
Source symbol T	125 V	600 T 125V
Source symbol T	79 V	y Z 1 400 P53 T 79V
Source symbol g	50 V	U8 6 4 2 0 2 4 6 g 50 Vo
Published electrical parameter	250 V	Un=6,3V, Ea=250V Un=6,3V, f=1kHz, =2 us
Published electrical parameter	1 kHz	Un=6,3V, Ea=250V Un=6,3V, f=1kHz, =2 us

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	63 V	Published datasheet line: U, 63V I,2) 56—10,5mA
I	60050 mA	Published datasheet line: I, 60050 mA S 3,5—5,5 mA/V
U	250 V	Published datasheet line: U, 250V " 357
R)	600 Q	Published datasheet line: R, !) 600Q
PublishedValue	1 A	Published datasheet line: 1) B memd KaxIOro KaToxa A/ aBTOMATHYECKOTO CMEIICHH,
Coe	31 pF	Published datasheet line: Coe 31=1,1pF C gla < 2,7 pF
C)	1,605 pF	Published datasheet line: C,) 1,605 pF C ala2 < 0,2 pF
C	1,7£0,5 pF	Published datasheet line: C,® 1,7£0,5 pF
U	69 V	Published datasheet line: U, 69V 57V
Uzt)	300 V	Published datasheet line: Uzt) 300V
P.Y)	22 W	Published datasheet line: P.Y) 22 W
I)	25 mA	Published datasheet line: I,?) 25 mA

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	69 V	Published datasheet line: U, 69V 57V
Uzt)	300 V	Published datasheet line: Uzt) 300V
P.Y)	22 W	Published datasheet line: P.Y) 22 W
I)	25 mA	Published datasheet line: I,?) 25 mA



1981 Russian Tubes Katsnelson and Larionov

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1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal heater condition.
Heater current	600 mA	Published heater current.
Plate current	8 mA	Published basic-parameter operating point.
Transconductance	4450 μ S	Published basic-parameter value; normalized to μ S.
Amplification factor	35	Published basic-parameter value.
Service life	3000 h	Published service-life figure.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published limiting operating value.
Maximum cathode current	25 mA	Published limiting cathode-current value.
Maximum plate dissipation	2.2 W	Published per-triode plate dissipation.



SOURCE DATA APPENDIX

199X Svetlana

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

199X SVETLANA

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	600 mA	SourcePage1-2

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance (nominal)	4400 ohms	SourcePage1-2
Grid to cathode	3.2 pF	SourcePage1-2
Anode to cathode	1.5 pF	SourcePage1-2
Grid to anode	1.6 pF	SourcePage1-2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage, DC	250 V	SourcePage1-2
Anode dissipation, per triode	2.2 W	SourcePage1-2
Cathode current, continuous, per triode	20 mA	SourcePage1-2
Maximum grid-circuit resistance	0.5 megohm	SourcePage1-2

TUBE TINKER

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