



ELECTRONIC TUBE REFERENCE

6N14P

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Russian twin triode intended for high-frequency amplification and oscillator-related service, with published operation extending into the VHF range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 350 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0068 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	22 mA
Bilingual Russian/English datasheet; English text used as primary extraction source.	

SECTION2 Triode	
TRANSCONDUCTANCE	0.0068 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1.5 W
MAXIMUM CATHODE CURRENT	22 mA
<i>Second identical physical triode section; added to align rows with SectionCount.</i>	

The 6H14I1 double triode is designed for am- JIEHUS1 Halps:KeHHs BHICOKOH YaCTOTHI.

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
Source symbol 0	6 A	HHATIOPHOM OGOpPMJIEHHH, B CTEKJSIHHOM O6aJjjioHe vices enclosed in glass bulb and provided with a
Source symbol U,	63 V	U, 63V I, 105+3 mA n?) 2Bx7
Source symbol I,	105+3 mA	U, 63V I, 105+3 mA n?) 2Bx7
Source symbol I,	35030 mA	I, 35030 mA 1,3 <40pA Rgic®) 1.9_p0 kQ
Published electrical parameter	<40 pA	I, 35030 mA 1,3 <40pA Rgic®) 1.9_p0 kQ
Source symbol p	0 kΩ	I, 35030 mA 1,3 <40pA Rgic®) 1.9_p0 kQ
Source symbol U,	90 V	U, 90V S2?) 68%15 mA/V Reqy 06 k&
Published electrical parameter	15 mA/V	U, 90V S2?) 68%15 mA/V Reqy 06 k&
Published electrical parameter	125 Ω	R.Y) 125 Q
Published electrical parameter	10 V	8) Ilpu Ugr=—10 V.
Published electrical parameter	200 MHz	4) Broporo Tpmoza Ha =200 MHz.
Published electrical parameter	47+1 pF	Co!) 47+1pF Cera') < 0,25 pF
Published electrical parameter	<0.25 pF	Co!) 47+1pF Cera') < 0,25 pF
Published electrical parameter	0.55 pF	Cgox?) 255%0,55 pF Cgra?) <18pF
Published electrical parameter	<18 pF	Cgox?) 255%0,55 pF Cgra?) <18pF

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	28+05 pF	Cul) 28+05 pF o ala2 < 0,257%% pF
Source symbol L	15±025 pF	Chac?) L15x025 pF
Source symbol U,	69 V	U, 69V 57V P, 15 W
Source symbol V	57 V	U, 69V 57V P, 15 W
Source symbol P,	15 W	U, 69V 57V P, 15 W
Published electrical parameter	300 V	Ua 1 300V U kh +90 \"
Published electrical parameter	470 V	a) 470V
Published electrical parameter	30 V	U —_30V RgT 1 MQ
Source symbol RgT	1 MΩ	U —_30V RgT 1 MQ
Source symbol I,	<5 pA	1) ITpu saneproit samne, npu I, <5 pA.
Published electrical parameter	5 pA	With the tube cutoff, at I, <{5 pA.
Published electrical parameter	7 A	7 AViN
Published electrical parameter	0 mA	0 AN 1A LY 5
Source symbol AN	1 A	0 AN 1A LY 5
Source symbol Y	4 V	0 40 & 1220 160 UgV Y4V7 6 -5 -4 -3 -2 -/ 0 Y,¥ -3 -2 -1 0
Source symbol P	4 mA	— P4 max Uh=6'3v — — —P,ax U,=63V I, U,=63V
Published electrical parameter	3 V	— P4 max Uh=6'3v — — —P,ax U,=63V I, U,=63V
Published electrical parameter	63 V	— P4 max Uh=6'3v — — —P,ax U,=63V I, U,=63V
Published electrical parameter	90 V	—+— —Rgy U,=90V
Published electrical parameter	210 MHz	f=210MHz
Source symbol W	5 mA	W5 mA,
Source symbol o	0 V	£ Y- 20 TS o 0V
Published electrical parameter	15 V	/ I ~ ~15V- 7

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol Tt	-2 V	) 214 8 — = —\H/ Tt -2V]
Source symbol N4	-2 V	2/ N4 -2V, rdPp= ~251_
Published electrical parameter	25 V	7 4 /2 ¢ 25V NS
Published electrical parameter	4±2 A	(/, ' [4 4 =2 a 8 20 &0 60 80 100 120 140 160 180 Ug.V
Published electrical parameter	5 V	15 £ 05V _1./Z' _C_ "—V] 7
Source symbol i	-5 V	/ij 1/ // v i -5V
Published electrical parameter	-2 V	5 . }&/ -2V 4 mn) @ 15V
Published electrical parameter	5 V	B B ~1 5V N et T
Published electrical parameter	2 V	e =2V > :
Published electrical parameter	75 V	— — —lgp Ugre =75V — = —Igpp Ugry =60 V
Published electrical parameter	60 V	— — —lgp Ugre =75V — = —Igpp Ugry =60 V



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	63 V	Published datasheet line: U, 63V I, 105+3 mA n?) 2Bx7
I	35030 mA	Published datasheet line: I, 35030 mA 1,3 <40pA Rgic®) 1.9_p0 kQ
U	90 V	Published datasheet line: U, 90V S2?) 68%15 mA/V Reqy 06 k&
R.Y)	125 Q	Published datasheet line: R.Y) 125 Q

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PublishedValue	8 V	Published datasheet line: 8) Ilpu Ugr=—10 V.
At UgT	—10 V	Published datasheet line: At UgT =—10V.
PublishedValue	4 MHz	Published datasheet line: 4) Broporo Tpmoza Ha =200 MHz.
For the second triode at f	200 MHz	Published datasheet line: For the second triode at f=200 MHz.
Co)	47+1 pF	Published datasheet line: Co!) 47+1pF Cera') < 0,25 pF
Cgox)	255%0,55 pF	Published datasheet line: Cgox?) 255%0,55 pF Cgra?) <18pF
Cul)	28+05 pF	Published datasheet line: Cul) 28+05 pF o ala2 < 0,257%% pF
Chac) L1	5x025 pF	Published datasheet line: Chac?) L15x025 pF
U	69 V	Published datasheet line: U, 69V 57V P, 15 W
Ua	1 V	Published datasheet line: Ua 1 300V U kh +90 \"
a)	470 a	Published datasheet line: a) 470V
U _	30 V	Published datasheet line: U —_30V RgT 1 MQ

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	69 V	Published datasheet line: U, 69V 57V P, 15 W
Ua	1 V	Published datasheet line: Ua 1 300V U kh +90 \"
a)	470 a	Published datasheet line: a) 470V
U _	30 V	Published datasheet line: U —_30V RgT 1 MQ
Ia mA	1 mA	Published datasheet line: Ia,mA [1_\$ lamA



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal heater condition.
Heater current	350 mA	Published heater current.
Plate current	10.5 mA	Published basic-parameter operating point.
Transconductance	6800 μ S	Published basic-parameter value; normalized to μ S.
Amplification factor	25	Published basic-parameter value.
Service life	1500 h	Published service-life figure.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published limiting operating value.
Maximum cathode current	22 mA	Published limiting cathode-current value.

TUBE TINKER

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

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