



ELECTRONIC TUBE REFERENCE

6N16B

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Russian double triode intended for low-frequency voltage amplification and generation of high-frequency oscillations, with two compact triode sections suitable for amplifier and oscillator circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 400 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	0.9 W
MAXIMUM CATHODE CURRENT	14 mA
Bilingual Russian/English datasheet; English text used as primary extraction source.	

SECTION2 Triode	
TRANSCONDUCTANCE	0.005 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	0.9 W
MAXIMUM CATHODE CURRENT	14 mA
Second identical physical triode section; added to align rows with SectionCount.	

The 6H16b double triode is designed for am- JICHUs HANPSKEHWs] HU3KOH YaCTOThl M T€HEPHPOBA- plification of low-frequency voltage and genera- HHSI TOKOB BBICOKO! UaCTOTHI.

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 B0	3 A	npu Temueparype +950°C, a TaKke K BO3AEHCTBHIO
Source symbol oeeYHoctb	750 W	CapanTupoBannas poaroeeYHoctb 750 wacos. Service life guarantee: 750 hr.
Source symbol U,	63 V	U, 63V S\$?) 5,0+1,25 mA/V
Published electrical parameter	5.0+1.25 mA/V	U, 63V S\$?) 5,0+1,25 mA/V
Source symbol I,	40040 mA	I, 40040 mA w2 26+5
Source symbol U,	10 V	U, 10V Rgi®) 32kQ
Published electrical parameter	32 kΩ	U, 10V Rgi®) 32kQ
Published electrical parameter	325 Ω	R,!) 325Q U_i?) <15mV
Published electrical parameter	63±19 mA	I,2) 63=19mA
Published electrical parameter	50 MHz	3) Iipu f=50 MHz.
Source symbol Cqix	2707 pF	Cqix 2707 pF Calas 05=0,15 pF
Source symbol Calas	05±0.15 pF	Cqix 2707 pF Calas 05=0,15 pF
Source symbol C,.	1.65+0.55 pF	C,. 1,65+0,55 pF Cin <70 pF
Source symbol Cin	<70 pF	C,. 1,65+0,55 pF Cin <70 pF
Source symbol Cgia	1505 pF	Cgia 1505 pF
Source symbol U,	69 V	U, 69V 57V P2 01 W
Source symbol V	57 V	U, 69V 57V P2 01 W
Source symbol P2	1 W	U, 69V 57V P2 01 W

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol U,	200 V	U, 200V I 14 mA
Source symbol I	14 mA	U, 200V I 14 mA
Source symbol U,y	350 V	U,y 350V Uy, 150 V
Source symbol Uy,	150 V	U,y 350V Uy, 150 V
Source symbol UgT	-50 V	UgT -50V Rgr® 1MQ
Published electrical parameter	1 MΩ	UgT -50V Rgr® 1MQ
Published electrical parameter	9 W	P,2) 09 W T6aJmona 17ϕ°C
Source symbol T	6 A	P,2) 09 W T6aJmona 17ϕ°C
Source symbol I,	<5 pA	With the tube cutoff, at I, <5 pA.
Published electrical parameter	2 MΩ	3) Honyckaeres Ryp=2 MQ, nmpu P, <<0,6 W n aBToMaTHuecKoM CMeUIEHHH.
Published electrical parameter	<0.6 W	3) Honyckaeres Ryp=2 MQ, nmpu P, <<0,6 W n aBToMaTHuecKoM CMeUIEHHH.
Source symbol J0min	36 mA	J0min 36max
Published electrical parameter	150 V	Ug=150V 7[m\ v 1004 8} 4
Source symbol A	1 A	4 P A 1A A L/
Published electrical parameter	200 μA	8 20 &g 60 B0 100 120 140 160 180 200 Ua, ¥ Uy' V-6 <5 -4 -3 ~Z -/ g
Published electrical parameter	63 V	_____ P, oax Up=63V Up,=63V
Published electrical parameter	3 A	4 3ak. 738 49
Source symbol E	0 V	E 0 v" (\
Published electrical parameter	195 V	e J ; a6 / ND- QL. / 195V
Published electrical parameter	190 V	A 4 / \Q =190V
Published electrical parameter	100 V	———— n U,=100V — — — Iy imp fimp =1kHz
Published electrical parameter	1 kHz	———— n U,=100V — — — Iy imp fimp =1kHz



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 S\$?) 5,0+1,25 mA/V
I	40040 mA	Published datasheet line: I, 40040 mA w2 26+5
U	10 V	Published datasheet line: U, 10V Rgi®) 32kQ
R)	325 Q	Published datasheet line: R,!) 325Q U_i?) <15mV
I	2 mA	Published datasheet line: I,2) 63=19mA
PublishedValue	3 MHz	Published datasheet line: 3) Iipu f=50 MHz.
At	=50 MHz	Published datasheet line: At =50 MHz.
Cqix	2707 pF	Published datasheet line: Cqix 2707 pF Calas 05=0,15 pF
C	1,65+0,55 pF	Published datasheet line: C,. 1,65+0,55 pF Cin <70 pF
Cgia	1505 pF	Published datasheet line: Cgia 1505 pF
U	69 V	Published datasheet line: U, 69V 57V P2 01 W
U	200 V	Published datasheet line: U, 200V I 14 mA
U y	350 V	Published datasheet line: U,y 350V Uy, 150 V
UgT	-50 V	Published datasheet line: UgT -50V Rgr® 1MQ
P	2 W	Published datasheet line: P,2) 09 W T6aJmona 17ϕ°C
PublishedValue	3 MQ	Published datasheet line: 3) Honyckaeres Ryp=2 MQ, nmpu P, <<0,6 W n aBToMaTHuecKoM CMeUIEHhH.
Ryr	2 MQ	Published datasheet line: Ryr=2 MQ is admitted at P, <<0.6 W and for seli-bias.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	69 V	Published datasheet line: U, 69V 57V P2 01 W

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	200 V	Published datasheet line: U, 200V I 14 mA
U _y	350 V	Published datasheet line: U _y 350V U _y , 150 V
U _{gT}	-50 V	Published datasheet line: U _{gT} -50V R _{gr} ® 1MQ
P	2 W	Published datasheet line: P,2) 09 W T6aJmona 17°C
PublishedValue	3 MQ	Published datasheet line: 3) Honyckaeres R _{yp} =2 MQ, nmpu P, <<0,6 W n aBToMaTHuecKoM CMeUIEHhH.
R _{yr}	2 MQ	Published datasheet line: R _{yr} =2 MQ is admitted at P, <<0.6 W and for seli-bias.



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

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal heater condition.
Heater current	400 mA	Published heater current.
Plate current	6.3 mA	Published basic-parameter operating point.
Transconductance	5000 μS	Published basic-parameter value; normalized to μS.
Amplification factor	25	Published basic-parameter value.
Service life	3000 h	Published service-life figure.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	200 V	Published limiting operating value.
Maximum cathode current	14 mA	Published limiting cathode-current value.
Maximum plate dissipation	0.9 W	Published per-triode plate dissipation.

TUBE TINKER

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