



ELECTRONIC TUBE REFERENCE

6N1PVI

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Russian double triode for low-frequency voltage amplification with documented vibration capability and pulse operating data, intended for more demanding electronic service than the basic 6N1P.

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	
TRANSCONDUCTANCE	0.00445 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	25 mA
Two electrically identical triodes; represented by one section row under identical-section compression.	

SECTION2 Triode	
TRANSCONDUCTANCE	0.00445 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>	

The 6HI1IT-BU double triode has been designed for Thbl B HMITYJlbLCHOM PeXHMe.

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	@225 max
Source symbol triode	1 A	(] 1 — triode 1 anode; 2 — triode 1 grid; 3 — triode 1 cathode:
Heater	2 A	4 — heater; 5 — heater; 6 — triode 2 anode; 7 — triode 2 grid;
Source symbol QHANA30HE	4 A	BuOpalimoHHble HaTPY3KA B QHANA30HE 4acTOT OT 5 Vibration: at frequencies from 5 to 600 Hz with
Source symbol OT	5 V	BuOpalimoHHble HaTPY3KA B QHANA30HE 4acTOT OT 5 Vibration: at frequencies from 5 to 600 Hz with
Source symbol to	600 Hz	BuOpalimoHHble HaTPY3KA B QHANA30HE 4acTOT OT 5 Vibration: at frequencies from 5 to 600 Hz with
Source symbol Bo	3 A	TeabHasd BJlaXHOCTh Bo3ayxa A0 98Y% mpm Temmepartype humidity: up to 98% at up to 40 °C. Ambient pressure:
Source symbol o	3 A	1o 40 °C. JasneHne okpyxaroueii cpenbl 4o 3 aT™. up to 3 atm.
Source symbol to	3 A	1o 40 °C. JasneHne okpyxaroueii cpenbl 4o 3 aT™. up to 3 atm.
Source symbol nnnnann	250 A	QHOIA &ttt ettt ie e iie i ee e n e nnnnann 250 ANOGE e e e 250
Plate	1 V	IH KaAa0ro axona 10 kOm M NEPEMEHHOM HAmps- anode circuit and alternating grid voltage 1 V
Published electrical parameter	-1073 A	HHM CETKH —15B) =<10-1073 anode cutoff, at grid voltage —15 V =10x1073

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate	15 V	HHM CETKH —15B) =<10-1073 anode cutoff, at grid voltage —15 V =10x1073
Published electrical parameter	3547 A	Ko3ϕuuHEeHT YCHIEHNHA KaXA0TO TPHODA 3547 Amplification factor of each triode 35+7
Source symbol voltage	150 V	OyJlbCHOM HANpskeHHH aHoaa 150 B, anutensuocTH voltage 150 V, pulse duration 1— 2 us and pulse
Source symbol frequency	50 Hz	uMIynbea 1.2 MKC, YacTOTe NOBTOPEHUS HMIYIIBCOB repetition frequency 50 Hz, A =2
Published electrical parameter	1 A	BROIBAT o vove e e e 3,3+0,9 112 o) 01 A 3.3+09
Published electrical parameter	4 A	JrexTpu4eckHe napamerpsl B Teyenne 3000 4 akcmy- .
Source symbol nnennnnen	300 A	BHOMA . -evvvvvveennennnnen 300 anode ... 300
Source symbol MpH	3 A	aHOpa MpH 3a1epTo navue 470 anode in cut-off valve 470
Published electrical parameter	470 A	aHOpa MpH 3a1epTo navue 470 anode in cut-off valve 470
Published electrical parameter	30 W	BpeMs TOTOBHOCTH, C 30 Warm up period, s 30
Source symbol mnepatypa	6 A	Temnepatypa 6awtoua, °C 180 Bulb temperature, °C 180
Published electrical parameter	200 A	CETKH, UMITY/ILCHOE 200 anode (pulse) 450
Published electrical parameter	250 V	40 '1 Y ,5 250V
Source symbol e	0 V	- f 1] Je~e00v]
Source symbol s	0 V	JI [[~1s0v
Published electrical parameter	63 V	Un=63V Un=6,3V Un=6,3V
Published electrical parameter	6.3 V	Un=63V Un=6,3V Un=6,3V



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	600 mA	Published heater current.
Plate current	7.5 mA	Published basic-parameter operating point.
Transconductance	4450 μS	Published basic-parameter value; normalized to μS.
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.

TUBE TINKER

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