



ELECTRONIC TUBE REFERENCE

6N6P

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Russian low-mu, high-transconductance double triode designed for low-frequency power amplification, offering relatively high current capability and substantial plate dissipation per section.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 750 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	1800 Ω
TRANSCONDUCTANCE	0.0095 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	4.8 W
Bilingual Russian/English datasheet; English text used as primary extraction source.	

SECTION2 Triode	
PLATE RESISTANCE	1800 Ω
TRANSCONDUCTANCE	0.0095 S
AMPLIFICATION FACTOR	20
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	4.8 W
Second identical physical triode section; added to align physical rows with SectionCount.	

The 6H6I1 double triode is designed for low JIEHHSI MOIIHOCTH HH3KOH 4aCTOTHI.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal heater condition.
Heater current	750 mA	Published heater current.
Transconductance	9500 μ S	Published characteristic; normalized to μ S.
Amplification factor	20	Published characteristic.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published limiting operating value.
Maximum plate dissipation	4.8 W	Published limiting operating value.



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,)? <150 pA
I	730 mA	Published datasheet line: I, 730=70 mA S 11,2522 mA/V
U	120 V	Published datasheet line: U, 120V W 22+4

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Uy	−2 V	Published datasheet line: Uy −2V R1H3 68Q
I	287 mA	Published datasheet line: I, 287mA R, 1,8 kQ
) Hpu Uy	−15 V	Published datasheet line: %) Hpu Uy, = −15 V.
At U	−15 V	Published datasheet line: At U, =−15V.
Coix	44 pF	Published datasheet line: Coix 44 pF Cgla <35 pF
Cac)	17 pF	Published datasheet line: Cac) 17 pF Chrlae =0,15 pF
U	7 V	Published datasheet line: U, 7V 57V I %) 45 mA
U	300 V	Published datasheet line: U, 300V 1) 40 mA
U	450 V	Published datasheet line: U, 450V Ui 100V
P)	48 W	Published datasheet line: P,?) 48W RgT 1 MQ
P)	8 W	Published datasheet line: P,%) 8W Teammona 200°C
Tlpu sameprtoit samme npu I C5 A npu Ugr	−50 A	Published datasheet line: !} Tlpu sameprtoit samme, npu I, <C5 A, npu Ugr <−50 V.
With tube cutoff at I	<5 V	Published datasheet line: With tube cutoff at I, <5 pA, at Uy,r<<−50 V.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	7 V	Published datasheet line: U, 7V 57V I %) 45 mA
U	300 V	Published datasheet line: U, 300V 1) 40 mA
U	450 V	Published datasheet line: U, 450V Ui 100V
P)	48 W	Published datasheet line: P,?) 48W RgT 1 MQ
P)	8 W	Published datasheet line: P,%) 8W Teammona 200°C
Tlpu sameprtoit samme npu I C5 A npu Ugr	−50 A	Published datasheet line: !} Tlpu sameprtoit samme, npu I, <C5 A, npu Ugr <−50 V.
With tube cutoff at I	<5 V	Published datasheet line: With tube cutoff at I, <5 pA, at Uy,r<<−50 V.



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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	2 V	при $I_{\text{с}}=6,3$ в и $U_{\text{с}}=120$ В, $I_{\text{с}}=-2$ В (для 6Н6П),
Published electrical parameter	68 Ω	$=68$ Ом (для 6Н6П-И)
Published electrical parameter	150 V	Одimp== Усимп== 150 В, $\tau=1-2$ мке, $i-$
Published electrical parameter	50 Hz	$=50$ Гц), А. .. — $>4,7$
Published electrical parameter	5.7 V	То же при $H_{\text{ц}}=5,7$ В. , $>6,8$
Published electrical parameter	0.5 k Ω	$=0,5$ кОм), мВ. , $<100 < 100$
Published electrical parameter	-6 V	при $0_{\text{ц}}=6,3$ В, $I_{\text{а}}=300$ В, $7_{\text{с}}=-6$ В
Grid reverse current	<3 мКА	Обратный ток сетки* , <3 мКА
Dissipation / power	>4.2 V	Выходная мощность ** , ... , $>4,2$ Вт
Published electrical parameter	57 V	То же при $Ш_{\text{в}}=57$ В. . . . ,
Published electrical parameter	>3.2 V	, $>3,2$ Вт

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)