



ELECTRONIC TUBE REFERENCE

6S19P

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Russian low-resistance high-current triode with approximately 11-watt plate dissipation for electronic control and power-amplification service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 1 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	400 Ω
TRANSCONDUCTANCE	0.0075 S
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	11 W
MAXIMUM CATHODE CURRENT	140 mA
<i>Published 6S19P continuous maximum anode voltage 200 V (500 V cold-start switching limit); plate dissipation 11 W; maximum anode current 140 mA, heater-to-cathode voltage 250 V. Typical internal resistance approximately 400 ohms. 6.3 V nominal heater (5.7-6.9 V allowed), current approximately 1.0±0.1 A. No change to tube type. Other OCR-derived values require caution.</i>	

Triode 6CI9I1 Tpuon, 6CI19I1 npenuasnauen nas paboThi B The 6CI19I1 triode is designed for operation as Triode

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
Triode	6	Triode 6CI9I1
Tpuon	6	Tpuon, 6CI19I1 npenuasnauen nas paboThi B The 6CI19I1 triode is designed for operation as
KadecTsBe peryJupylolliefl JaMIbl B	3 A	KadecTsBe peryJupylolliefl JaMIbl B 3JEKTPOHHBIX a regulator tube in electronic voltage stabilizers.
Tpuonm	6	Tpuonm 6C19I1 BHIMyCKalOTC B MHHHATIOPHOM The 6CI19I1 triodes are miniature devices en-
OTHOCHTENbHO! BaaxHOocTH	40	OTHOCHTENbHO! BaaxHOocTH 95—98% mnpu Temme- midity of 95 to 989% at +40°C, as well as to
patype	25 A	patype +40°C, a Takxe K BO3leflCTBHIO MeXaHH- mechanical loads: vibration loads up to 25 g
YeCKHX HArpysok: BHOpaluoOHHHX A	12	YeCKHX HArpysok: BHOpaluoOHHHX A0 2,5 g, yaap- and multiple impact loads up to 12 g.
HBIX MHOTOKpaTHHX	12	HBIX MHOTOKpaTHHX 10 12 g.
FapanTupoBanHas poaroseunocTs	2000	FapanTupoBanHas poaroseunocTs 2000 uyacos. Service life guarantee: 2000 hr.
Published electrical value	1	1) Ucrounuka NUTAAHUA CETKHU.
Cglk	8 pF	Cglk 6,5 pF C gla 8 pF
NPENEJIBHO AONYCTHUMBIE	3	NPENEJIBHO AONYCTHUMBIE 3KCNJYATAILMOHHBIE NAHHBIE
u, !)	250 V	u, !) 500V Ukh 250 V
Published electrical value	250	P,3 7TW Tfia.vmOHa 250°C
Published electrical value	2	2) Ipu
Upn Uy=	200	Upn Uy=200
Published electrical value	3	4) [lpn MCHONBb30OBARUM JaMObBl B 3JSKTPOHHHX CTAGHIM3ATOPaX HANPSIKEHUA B Ka-
Published electrical value	4	4ecTBE DPErJHpyIOlledl, KOTHa COINPOTHBJEHHE B IEIH CETKH SIBJASETCH OJHOBpe-
conpoTueJgeHds g	1.5	conpoTueJgeHds g0 1,5 MQ.
Resistance of up to	1.5 A	Resistance of up to 1.5 MQ is allowed when the tube is used as a regulator in
JEY S	8	JEY S 8\$ \$ ° © o
xro	97	xro0uUL 97y

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Hauboapmiii sec	25	Hauboapmiii sec 25 . Maximum weight: 25 gr.



SOURCE DATA APPENDIX

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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol U,	6.3 V	Nominal heater voltage 6.3 V; corrected OCR decimal shift
Source symbol R,	400 Ω	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Rk	OCR combined values for cathode resistor/current; requires source-table verification.	
Source symbol E,	110 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol Cglk	6.5 pF	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol gla	8 pF	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol ak	2.5 pF	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol U,	6.9 V	Maximum heater voltage 6.9 V; original OCR 69 V
Source symbol U,	200 V	Maximum continuous anode voltage 200 V
Source symbol Ia	140 mA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Ukh	250 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol a.vm0Ha	250 °C	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol CTAGHIM	3 A	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol g0	1.5 MΩ	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol to	1.5 MΩ	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.



1981 Russian Tubes Katsnelson and Larionov

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1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	-7 V	при (0ч=6,3 В, 0,= 110 В, В,=130 Ом, /,.=--7 В
Published electrical parameter	5.7 V	То же при (н=5,7 В МА. , — >60 —
Published electrical parameter	2 kΩ	Кд=2 кОм), мВ . <500 <200 < 120
Published electrical parameter	<200 V	при (0а<200 В. 11 И Н
Published electrical parameter	>200 V	при (,>200 В . 7 7 —
Published electrical parameter	12 V	при Ш:=6,3 В, И,=25 кВ, 1,,=1 мА, (, от —6 до —12 В
Reverse current	<1.5 μA	Обратный ток сетки <1,5 мкА
Published electrical parameter	<20 μA	между сеткой и всеми электродами . <20 мкА
Published electrical parameter	<50 μA	между катодом и подогревателем . <50 мкА
Published electrical parameter	2.5 pF	входная . 2,5 пФ
Published electrical parameter	0.7 pF	выходная . ЯИ 2 .. 0,7 пФ
Published electrical parameter	<0.1 pF	проходная <0,1 пФ
Service life	2750 h	Наработка — 2750 ч
Transconductance	20.12 mA/V	крутизна характеристики 20,12 мА/В