



ELECTRONIC TUBE REFERENCE

6P36S

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Russian high-transconductance beam tetrode for television line-output service, rated for peak plate voltages around 7 kV and demanding horizontal-deflection operation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 2 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
PLATE RESISTANCE	4500 Ω
TRANSCONDUCTANCE	0.014 S
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	16 W
MAXIMUM SCREEN DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	250 mA
<i>Published electrical characteristics and permissible ratings promoted where OCR labels were unambiguous; remaining published numeric table entries retained in TUBE_SECTION_PARAMETER.</i>	

Output beam tetrode BrixoaHo# JyudeBoii terpon 6I136C npeanasha- The 6I136C output beam tetrode is designed for 6 36C Output beam tetrode

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 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
BrixoaHo# JyudeBoii terpon	6	BrixoaHo# JyudeBoii terpon 6I136C npeanasha- The 6I136C output beam tetrode is designed for
qeH pJia paboTel B	6	qeH pJia paboTel B 6J0KaxX CTPOUHOH pasBepTKH Te- operation in line scanning units of widely used
¢ YrJIOM OTKJOHEeHHs Jyda KuHeckoma	110	¢ YrJIOM OTKJOHEeHHs Jyda KuHeckoma 110°. flection angle of 110°.
Breixonuble ayuessie Terpornt	6	Breixonuble ayuessie Terpornt 6I136C Beimycka- The 6IT36C output beam tetrodes are enclosed
Boixoanbie JgyueBsie Terpoabl	61136	Boixoanbie JgyueBsie Terpoabl 61136C ycrofiunpn
The	6	The 6I136C output beam tetrodes are resistant
K B0	-60	K B03JEHCTBHIO OKpYXKaloueil TeMneparypel oT —60
npu temuepatype	40 A	npu temuepatype +40°C, a Takke K B03ZelCTBHIO
MeXaHHUECKHX Harpy	2.5	MeXaHHUECKHX Harpy30K: BHOpanHMOHHBIX 10 2,5 &, as to mechanical loads: vibration loads up to 2.5 g
yIapHBIX MHOTOKPATHHIX fo	12	yIapHBIX MHOTOKPATHHIX fo 12 g. and multiple impact loads up to 12 g.
FapauTupoBanHas #AoaroBedyHocTs	2000	FapauTupoBanHas #AoaroBedyHocTs 2000 yacos. Service life guarantee: 2000 hr.
Published electrical value	100 mA	U, 63V U, ~7V lyzimp) <100 mA
Published electrical value	45 mA	U, 100V I imp!) =400 mA R, 45 kQ
DIy	0 V	DIy 50 v, Ugy=170 V, Uy, =0.
Cg	324 pF	Cg 324 pF C,, gla <IpF

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	36	6 36C Output beam tetrode
NPEAEABHO JONYCTUMBIE	3	NPEAEABHO JONYCTUMBIE 3KCNAYATALLMOHHbBIE JAHHDDBIE
Uy	-250	Uy, 69V 57V Ugtmp —250V
U, "	5 V	U, " 550 V Pyp?)®) 5W
U, imp)	16 kV	U, imp) 7 kV P,+P, 16W
Ugs	250 V	Ugs 250 V I ®) 250 mA
Up?	230	Up? 330V Te,mona 230°C
Uei TV Uzzlb	100 V	Uei TV Uzzlb 100 V
Published electrical value	1	1) Iipn BX/IIOUEHHH Ha XOJOLHYIO JaMIy.
Published electrical value	2	2) B nepuwoj oOpaTHOro X0Aa CTPOUHON PA3BEPTKHM NPH NPOAOIKHUTETHHOCTH HMIYIHCA
okoJsio	16	okoJsio 14 ps, f crpouroit pasBeprku okoso 16 kHz u I, <C100 pA.
During a reverse motion of the line scanning with pulse duration of about	14 A	During a reverse motion of the line scanning with pulse duration of about 14 ps.
[of the line scanning of about	100 uA	[of the line scanning of about 16 kHz and I,<C 100 uA.
Published electrical value	3	3) Iipu 3aneprtoii samre.
#) Ilpu mosbimTenHoM HanpsKeHHH Ceru fomyckaercc P, =	5 W	#) Ilpu mosbimTenHoM HanpsKeHHH Ceru fomyckaercc P, =17 W n Pgo=5 W.
P,=	5 W	P,=17 W and Pg2=5 W are admitted at increased mains voltage.
nomyckaeTes Pyo=	7 W	nomyckaeTes Pyo=7 W
Pg	7	Pg2=7W is admitted at the moment of switching in the television receiver
Published electrical value	6	6) Cpennee sHaueHne.
Published electrical value	7	7) ITpu padore B GJOKax CTPOUHOH Pa3BEPTKH.
Published electrical value	2 A	a 265-02Smin
Published electrical value	105	105 max
Published electrical value	115	115 max
Output beam tetrode	36	Output beam tetrode 6' 36C
Ugz =	200	Ugz =200V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ung=	0	Ung=0V
Published electrical value	200	N 100 [Upa=200A
Published electrical value	-10	100 N Ugr=0V _-10] l =
Published electrical value	175 V	0 25 50 75 100 125 150 {75 UgpV 0 25 & 0 75 00 125 {150 175 Ug.V
- =l Ugy =	0	- — =l Ugy =170V — — —1l Ug =0
Upz =	200	Upz =200V
Published electrical value	300	300 P= vAaY 300 & ,
I, I,=	1	I, I,=1(U,) L. Igo=1(Ug)
- - -Igp Ug	50	— — —Igp Ug1="10V —_— -Ig2 U,=50V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Haub	90	Haub6oabmuit Bec 90 e Maximum weight: 90 gr.


SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol U,	63 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol U,	~7 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol lyzimp	<100 mA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol I,	2+02 A	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol I,	12050 mA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol S	> 14 mA/V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol U,	100 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol R,	45 kΩ	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol DIy	50 v	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Cg	324 pF	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol Uy,	69 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol U,	250 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol imp	7 kV	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol P,	16 W	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Ugs	250 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Te,mona	230 °C	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol Uzzlb	100 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol X	0 mA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol okoso	16 kHz	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol C10	0 pA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol about	16 kHz	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol C	100 uA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol IIpu	3 a	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.



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 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Nominal heater voltage	6.3 V	Published source value
Nominal heater current	2 A	Published source value
Transconductance	14000 uS	Published operating point
Plate resistance	4500 Ohm	Published operating point
Guaranteed service life	2000 h	Published source value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak plate voltage	7000 V	TelevisionLineOutput

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