

Russian rugged beam-output tetrode specifically designed for television line-scanning output, combining very high transconductance with strong pulse-current capability.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.0195 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	4 W
MAXIMUM SCREEN DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	200 mA
Published electrical characteristics and permissible ratings promoted where OCR labels were unambiguous; remaining published numeric table entries retained in TUBE_SECTION_PARAMETER.	

Output beam tetrode 6I131C BruixoaHoli syueBo#i Terpoa 6I131C mpennasna- The 6I131C output beam tetrode is designed 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
Output beam tetrode	6	Output beam tetrode 6I131C
BruixoaHoli syueBo#i Terpoa	6	BruixoaHoli syueBo#i Terpoa 6I131C mpennasna- The 6I131C output beam tetrode is designed
Published electrical value	4	4eH AJs paboThl B BBIXOJAHBIX KacKajgax CTPOYHOR for operation in line scanning stages of television
Boixoaneie Terpoust	6	Boixoaneie Terpoust 6I131C BhinyckawTtea B The 6I131C output tetrodes are enclosed in
Boixozsble qiydessie Terpoanl	6	Boixozsble qiydessie Terpoanl 6I131C ycrohiunsh
K B0	61131	K B03MeHICTBHIO OKPYXKaIOIleH TeMnepaTypa oT —60 The 61131C output beam tetrodes are resistant
MeXaHHYECKHX Harphysok: JHHefiHbX xzo	100	MeXaHHYECKHX Harphysok: JHHefiHbX xzo 100 g, BH- as to mechanical loads: linear loads up to 100 g,
OpauMOHHBIX	6	OpauMOHHBIX 10 6 g, yZapHBIX MHOTOKPATHBIX 10 vibration loads up to 6 g, multiple impact loads
Published electrical value	150	75 g, yaapubix OIHHOYHBIX 1o 150 g. up to 75 g and single impact loads up to 150 g.
FapanrupoBannas noaroseyHoctb	1500	FapanrupoBannas noaroseyHoctb 1500 wacos. Service life guarantee: 1500 hr.
Published electrical value	100 mA	U, 63V U, -9V lgo imp?) 100 mA
Published electrical value	380 mA	U, 100V I, 9mA L imp 2) >380 mA
) Ilpu U, imp =	140 kV	) Ilpu U, imp =7 KV, Uge =170V, U, = — 140V,
At U, imp =	140 kV	At U, imp =7 kV, Ugy =170 V, Uy = — 140 V.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
%) Ha ropusoHTa/bHOM YuaCTKe XapakTepucrTykn mnpy U, =	170 V	%) Ha ropusoHTa/bHOM YuaCTKe XapakTepucrTykn mnpy U, =70 V, Ug2= 170 V,
Ugl imp =	0	Ugl imp = 0.
On horizontal portion of the characteristic curve at U, =	170 V	On horizontal portion of the characteristic curve at U, =70V, Uge =170 v,
Cglk	13 pF	Cglk 18E3 pF Cgla <13 pF
Cak	8515 pF	Cak 8515 pF
NPEAEJNBHO NONYCTUMBIE	9	NPEAEJNBHO NONYCTUMBIE 9KCNJYATALLUOHDBIE NAHHBIE
U, imp	2 kV	U, imp 2)7 kV I, %) 02 A
Ig	0 V	Ig2 250 V Loy 0B A
Ugl imp –	220	Ugl imp —250V Téam[ona 220°C
Published electrical value	12	f4) 12 kHz
Published electrical value	1	1) TIpu BKJIOUEHHH HA XOJOIHYIO JaMIy.
Published electrical value	0	2) TIpu t<C 12 ps (oGpaTHBI XOn CTPOUHON pasceTKH) nny I =0.
At v<{	0 V	At v<{ 12 ps (reverse motion of line scanning) at I, =0.
Published electrical value	3	3) Cneanee spauene.
Published electrical value	4	4) CtpouHO#i pasBepTKHU.
Published electrical value	6	6' I3IC BbixonHo# JyueBOH TeTPOX,
NNSp	50	NNSp4 50
sol-"	50 W	sol-"15v ~ i) / / W 50
Published electrical value	115	115 UqV
– – –lg Ugp=	170 V	— — —lg Ugp=170 V — — =g Ugp =170V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HauGoabmmuii sec	45	HauGoabmmuii sec 45 e. Maximum weight: 45 gr.



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

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,	-9 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol I	1.3+0.15 A	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol S	12.5644 mA/V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol U,	10 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol L,	100 pA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol R,	<4 kΩ	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 I,	9 mA	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Cgla	<13 pF	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Cak	8515 pF	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol U,	69 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Py,	4 W	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol U,	300 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Py	2 W	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol h	550 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Pg,	13 W	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Ig2	250 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol y	550 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Uy,	200 V	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol ona	220 °C	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol Pa	10 W	Published bilingual datasheet table; source symbol preserved because OCR/notation may be ambiguous.
Source symbol f4	12 kHz	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 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Nominal heater voltage	6.3 V	Published source value
Nominal heater current	1.3 A	Published source value
Transconductance	19500 uS	Published operating point
Plate resistance	5000 Ohm	Published operating point
Guaranteed service life	1500 h	Published source value

TUBE TINKER

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