



ELECTRONIC TUBE REFERENCE

6P13S

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Russian beam-power tube intended for television horizontal-deflection output, designed for high pulse voltage and current in line-scan service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
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

SECTION 1 Beam Power	
TRANSCONDUCTANCE	0.0095 S
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	18 W
Bilingual Russian/English datasheet; English text used as primary extraction source.	

The 6IT13C output beam tetrodes are enclosed I0TCS1 B CTEKJSHHOM OGM0DMJEHHH € OKTaJbHBIM in glass bulb and are provided with an octal base ILOKOJJeM, ¢ OKCHIBIM KaTOJAOM KOCBEHHOTO Ha- and an indirectly heated oxide-coated cathode.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal heater condition.
Heater current	1300 mA	Published heater current.
Transconductance	9500 μ S	Published characteristic; normalized to μ S.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	250 V	Published limiting operating value.
Maximum plate dissipation	18 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 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	63 V	Published datasheet line: U, 63V Ugi —19V S 9,5+3 mA/V
I	1,3+0,15 A	Published datasheet line: I, 1,3+0,15 A I, 58 mA Uy <—1L0V
U	200 V	Published datasheet line: U, 200V Limp?) =220 mA R; 25 kQ

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Uge	200 A	Published datasheet line: Uge 200 A% Ipoimp?) <120 mA R, %) 200 Q
) Ha ropusoHTaJibHOM yuacTKe XxapakTepumku. Iipw U	=100 V	Published datasheet line: ?) Ha ropusoHTaJibHOM yuacTKe XxapakTepumku. Iipw U, =100V, Uge =170V,
Uy	-1 V	Published datasheet line: Uy=-1V.
On the horizontal portion of the characteristic curve. At U	=100 V	Published datasheet line: On the horizontal portion of the characteristic curve. At U, =100V, Ug2= 170 V,
Uy	-1 V	Published datasheet line: Uy =-1V.
Caix	17,5+2,5 pF	Published datasheet line: Caix 17,5+2,5 pF
Cak	671 pF	Published datasheet line: Cak 671° pF
Cgla	< 0,9 pF	Published datasheet line: Cgla < 0,9 pF
U	69 V	Published datasheet line: U, 69V 57V P, 02 W
U	450 V	Published datasheet line: U, 450 V P,+P, 16 W
U imp)	8 mA	Published datasheet line: U, imp) 8KV L4 130 mA
Ugp)	450 V	Published datasheet line: Ugp?) 450V Loimp O04A
Ugiimp	-150 V	Published datasheet line: Ugiimp -150V Upp 100 V
P	14 W	Published datasheet line: P, 14 W f®) — 12kHz
pg2)	4 w	Published datasheet line: pg2 %) 4w Tfia.mmfla 220°C

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	69 V	Published datasheet line: U, 69V 57V P, 02 W
U	450 V	Published datasheet line: U, 450 V P,+P, 16 W
U imp)	8 mA	Published datasheet line: U, imp) 8KV L4 130 mA
Ugp)	450 V	Published datasheet line: Ugp?) 450V Loimp O04A
Ugiimp	-150 V	Published datasheet line: Ugiimp -150V Upp 100 V
P	14 W	Published datasheet line: P, 14 W f®) — 12kHz
pg2)	4 w	Published datasheet line: pg2 %) 4w Tfia.mmfla 220°C

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Masi CeTKOH BTODOH B Teuenue	2,5 W	Published datasheet line: Masi CeTKOH BTODOH B Teuenue 2,5 MUH [OCJe BKJIIOYEHHSs, He JOJKHA TpeBbnaTh 7 W,
grid during	2.5 W	Published datasheet line: grid during 2.5 min after switching in should not exceed 7 W.
w	4 w	Published datasheet line: w—4---
War	0 V	Published datasheet line: War 0V

TUBE TINKER

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