

ELECTRONIC TUBE REFERENCE

6K4P

Voltage Pentode - Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Russian high-frequency pentode with an extended control characteristic, designed for RF voltage amplification in radio-electronic equipment. Its gradual cutoff behavior supports variable-gain operation in controlled high-frequency amplifier stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	850000 Ω
TRANSCONDUCTANCE	0.0044 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	125 V
MAXIMUM CATHODE CURRENT	20 mA
Values promoted from the complete filename-matched Russian entry only.	

The 6K4IT high-frequency pentode with an extended pucTHKoH 6K 411 mpenHasHadeH [UIs YCHIIIEHHMS Hanpsxe- characteristic has been designed for high-frequency HUS BBICOKOH YaCTOTHI B paAHOTEXHHYECKHMX YCTPOUCTRAX.

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 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	19 mA	19max
Source symbol Sl	9 W	Sl 9w . . .
Source symbol grid	3 A	1 NS ':', 2 Rz 7 1 — grid 1; 2 — cathode, grid 3 and screen; 3 — heater;
Source symbol QHaNa30He	4 A	BubpanmoHHble HAaTPY3KM B QHaNa3OHe 4acToT OT 1 Vibration: at frequencies from 1 to 60 Hz with
Source symbol OT	1 V	BubpanmoHHble HAaTPY3KM B QHaNa3OHe 4acToT OT 1 Vibration: at frequencies from 1 to 60 Hz with
Source symbol to	60 Hz	BubpanmoHHble HAaTPY3KM B QHaNa3OHe 4acToT OT 1 Vibration: at frequencies from 1 to 60 Hz with
Source symbol B0	3 A	HOCTb BO3ayxa Ao 98% mpu Temnepatype po 25 °C. Relative humidity: up to 98% at up to 25 °C.
Source symbol grid	1 V	Inverse grid current, at grid 1 voltage —2 V, pA =<1
Published electrical parameter	2 V	Inverse grid current, at grid 1 voltage —2 V, pA =<1
Transconductance	1 V	Transconductance, cutoffat grid 1 voltage —20 VuA/V 40
Transconductance	20 V	Transconductance, cutoffat grid 1 voltage —20 VuA/V 40
Source symbol nniinnns	300 A	AHOHA ovvveninniinnns 300 anode ol 300
Published electrical parameter	90 W	LiHajle NonorpesaTelld 90 with heater at negative poten-

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol BT0pOH	600 mA	paccenBaemas ceTkod BT0pOH 0,6 at anf)de 3
Source symbol U	25 V	i 17 U 25V Ia,g2,mA .
Published electrical parameter	-5 V	17 ; 74 > Ugr=-05V
Published electrical parameter	11100 V	0] 11100V] R — i
Published electrical parameter	8 A	8 A7 + 2: 1 -1V
Published electrical parameter	-1 V	8 A7 + 2: 1 -1V
Published electrical parameter	75 V	§ £ 75V T 10 —
Source symbol f	750 V	"f 750V] -1,5V
Published electrical parameter	-1.5 V	"f 750V] -1,5V
Source symbol ITRS	25 V	0 00 200 300 gV VcpenHeHubie XapakTepHCTHKH: 6 ITRS 25V L-asv
Published electrical parameter	63 V	Un=63V, Uy=—1V Un=6,3V, U =100 V ; ~L sV _ '%55' /—
Published electrical parameter	1 V	Un=63V, Uy=—1V Un=6,3V, U =100 V ; ~L sV _ '%55' /—
Published electrical parameter	6.3 V	Un=63V, Uy=—1V Un=6,3V, U =100 V ; ~L sV _ '%55' /—
Published electrical parameter	100 V	Un=63V, Uy=—1V Un=6,3V, U =100 V ; ~L sV _ '%55' /—
Plate	-5 V	Averaged anode characteristics 1 — anode: 2 — grid-anode &f,_ -5 VT_ '
Source symbol Up	128 V	Up128V 7 5 N T e e e
Source symbol lZ	5 V	'z=lZ5V 2 Upz0v -05V -1y L5y
Source symbol Upz	0 V	'z=lZ5V 2 Upz0v -05V -1y L5y
Source symbol R	100 V	R 100v[[] A V4ADA
Source symbol V	4 A	R 100v[[] A V4ADA
Published electrical parameter	25 V	25V
Published electrical parameter	7 V	; — 7svih 0 7 V.y.s.ay.amw
Source symbol yS	74 V	8 /' yS74V.AND-

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Source symbol TEPUCTHKH	3 A	VYcpenseHHbIE aHONHO-CETOYHBIE VcpeaHeHHbIE XapaKTEPUCTHKH 3aBUCH- VcpenHeRHBie AHOAHBIE XapaKTEPHCTHKH (TpHOO-
Published electrical parameter	250 V	Un=6,3V, Up=250V nepBOH Un=63V



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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	10.3 mA	Translated from Russian source; filename-matched entry only
Screen current maximum	5.5 mA	Translated from Russian source; filename-matched entry only
Transconductance	4.4 mA/V	Translated from Russian source; filename-matched entry only
Input capacitance	6 pF	Translated from Russian source; filename-matched entry only
Output capacitance	6.8 pF	Translated from Russian source; filename-matched entry only
Transfer capacitance maximum	0.0045 pF	Translated from Russian source; filename-matched entry only
Service life	25000 h	Translated from Russian source; filename-matched entry only