

ELECTRONIC TUBE REFERENCE

6E6PE

Power - Tetrode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

6E6PE (6Э6П-Е) long-life high-frequency output tetrode for broadband RF voltage amplification, with a 6.3 V 0.61 A heater.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 610 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
PLATE RESISTANCE	15000 Ω
TRANSCONDUCTANCE	0.0295 S
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	8.25 W
MAXIMUM SCREEN DISSIPATION	2.1 W
MAXIMUM GRID DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	70 mA
<i>6E6PE / 6Э6П-E, Russian 1981 pp.182-183. Typical V_a 150 V, V_{g2} 150 V, R_k 30 Ω, I_a 44 ± 9 mA, screen current 10 ± 4 mA, g_m 29.5 ± 7.5 mA/V, plate resistance 15 kΩ. Maximum normal V_a and screen voltage 150 V; cutoff-only up to 285 V. Maximum anode dissipation 8.25 W; control-grid (grid1) dissipation 0.5 W; max cathode current 70 mA. Max negative control grid 100 V, heater-cathode 100 V, max envelope temperature 250 $^{\circ}$C. Interelectrode capacitances: input 15 ± 2 pF, output 5.9 ± 0.8 pF, transfer 0.05-0.075 pF, cathode-heater ≤ 13.5 pF. Existing parameter records preserved.</i>	

Long-life output high-frequency tetrode BBIXOAHOM BHICOKOUACTOTHBIA TETPOXA NOJTrOBeY- The 636I1-E long life high-frequency tetrode is uolil 62611-E nmpennasHaueH AJjs1 WHPOKOHJOCHOTO designed for broadband amplification of high-fre- BhIXofHBIE BEICOKOUACTOTHBIe TeTPOAB 626I1-E The 636I1-E output high-frequency tetrodes are

SOURCE OPERATING CONDITIONS

195X Russian

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X RUSSIAN
Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Service life	10000 h	35 g, ynapHBIX OZHHOYHHIX Oo 500 g. Hauboasmuit Bec 18 e. Maximum weight: 18 gr. IapautupoBanHas pgoJaroeuHocts 10000 wacos. Service life guarantee: 10000 hr.
Service life	10000 h	Hauboasmuit Bec 18 e. Maximum weight: 18 gr. IapautupoBanHas pgoJaroeuHocts 10000 wacos. Service life guarantee: 10000 hr.
Service life	10000 h	IapautupoBanHas pgoJaroeuHocts 10000 wacos. Service life guarantee: 10000 hr.
Published electrical data	-100; 220	U —100 V Tfiannox—ra 220°C
Published electrical data	5	!) Ilpu sanmeproii aamie, npu Iy << 5 uA.
Published electrical data	<5	With the tube cutoff, at I, <5 wA.
Published electrical data	63; 6	63 6' I E BpixonHOH BBICOKOUCTOTHBIIH TETPOA HOJTUBEUHBIN
Published electrical data	7	\$7mox
Published electrical data	60	60 max
Published electrical data	10; 150	~~ e T TI T T 10 VARV, A 150
Published electrical data	4; 4; 2; 20	W T S Ry e Vil 4 4 %2" /20
Published electrical data	4	/ T T ARV 4SS AP AP
Published electrical data	50; 100; 0; 790; 3; 0	r 50 100 %0 790 Ua.V Ups V-3) W, 0
Published electrical data	1; 1	L, Igp=1(Uy) Lo Igo S=1(Ug)

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	61050; 44; 11; 350	I, 61050 mA I, 44+11 mA Reqy 350 @
Published electrical data	1	1) JIJasi apTOMATHUECKOro CMELIeHHS.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	2	2) Tlpu
Published electrical data	=60	=60 MHz.
Published electrical data	15; 2; 0.05; 0.025	Cqix 15%2 pF gla 0.05+0,025 pF
Published electrical data	22; 135	Cqix 22 pF Cin < 135 pF
Published electrical data	59	Cac 59LG50F
Published electrical data	3	NPEAEJBHO JONYCTUMDBIE 3KCHJIYATALLHOHHBIE NAHHBIE



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 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	150 V	#0 Ц =630 Г, = 150B-y ^#-170
Published electrical parameter	2008 V	0 20 40 60 80 100 720 140 160 180 2008 B-A5-40-1o-10-08 @
Published electrical parameter	30 OM	при Пн=6,3 В, Па=150 В, ис2=150 В, Кк=30 OM
Published electrical parameter	5.7 V	То же при Оа=5,7 В, мАВ. . . . 18
Resistance	60 MHz	Входное сопротивление (при }=60 МГц)
Published electrical parameter	0.5 kΩ	=0,5 кОм), мВ . . ке 150
Frequency	50 Hz	ускорение при вибрации на частоте 50 Гц @ 2,5
Published electrical parameter	6.3 V	150 6,3 В „;д‘,дө %/ /80
Published electrical parameter	68 Ω	при 0в=6,3 В, 0,=120 В, Осэ=50 В, В,=68 Ом

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	6 V	=—6 В, мкА ... 5. , <<50 <50
Reverse current	16 V	Обратный ток 1-й сетки при (с:==— 16 В,
Published electrical parameter	80 MHz	стоте 80 МГц, кОм . .
Published electrical parameter	50 Hz	вибрацин 50 Гц и ускорении