

ELECTRONIC TUBE REFERENCE

6E5P

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TETRODE

Russian high-reliability output high-frequency tetrode designed for broadband amplification. Its professional construction emphasizes dependable high-frequency output service in wideband electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode	
PLATE RESISTANCE	8000 Ω
TRANSCONDUCTANCE	0.0305 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	8.3 W
MAXIMUM SCREEN DISSIPATION	2.3 W
MAXIMUM CATHODE CURRENT	100 mA
<i>6E5P (6Э5П) high-frequency output tetrode. 1970 Mashpriborintorg and 1981 Katsnelson/Larionov sources: typical at heater 6.3 V, V_a 150 V, V_{g2} 150 V, R_k 30 Ω: plate current 43 ± 10 mA, screen current <14 mA, gm 30.5 ± 6.5 mA/V, plate resistance 8 kΩ. Maximum V_a 250 V, V_{g2} 250 V; at cutoff (tube locked) V_a and V_{g2} up to 470 V. Plate dissipation max 8.3 W, screen dissipation max 2.3 W, cathode current max 100 mA. Heater-cathode maximum +100 V (heater positive) or -150 V (heater negative). Capacitances input 15 ± 2 pF, output 2.55 ± 0.3 pF, transfer ≤ 0.065 pF, cathode-heater ≤ 13.5 pF. Existing parameter rows retained without modification.</i>	

Output high-frequency tetrode of improved reliability 623511 BrIXOZH0H BBLICOKOYACTOTHEIA TETPOJ NOBBILIEH- The 62511 output high-frequency tetrode of im- HO#i HajexHoctn 63511 npexnasHauen AJAS IWIHPO- proved reliability is designed for broadband am- BBICOKOI 4YacCTOTHL. The 635IT 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	500 h	o 500 g. Haunt6oabmuit Bec 20 e. Maximum weight: 20 gr. lapautupoBannas nosaroseuHocts 500 uacos. Service life guarantee: 500 hr.
Service life	500 h	Haunt6oabmuit Bec 20 e. Maximum weight: 20 gr. lapautupoBannas nosaroseuHocts 500 uacos. Service life guarantee: 500 hr.
Service life	3 h	lapautupoBannas nosaroseuHocts 500 uacos. Service life guarantee: 500 hr. 3JNEKTPHYECKHE JAHHBIE
Published electrical data	132; 0.5	Ug2 132) BOOV Rgl 0,5 MQ
Published electrical data	210	Téannoaa 210°C
Published electrical data	1; <5	) HPH 1, <5 pa.
Published electrical data	635	635' I Output high-frequency tetrode of improved reliability
Published electrical data	=0; 2	T[T Ugr =0V 2 JARY,
Published electrical data	10	N ST TS Tevd 10 / v (D
Published electrical data	50; 100; 150; 200; 2; -1	Vi 50 100 150 200 UqlV Ugr. v -d 2 -1 g
Published electrical data	1; 1	Ly Igp=1(Uy) o Igp S=1(Ug)
Published electrical data	=1; 150; 150	— = =1 Ugo=150 V — Iy Ua=150 V
Published electrical data	-3	"" Pa max —+—3

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	150; <10; 350	U, 150V L, <10pA Reqv 350 Q
Published electrical data	1	1)y JIng aBTOMAAThYECKOI'O CMeELIeHHs.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical data	8; =250; 6	8) Бу6pomymos, npu =250 Hz u yckopenuu 6 g.
Published electrical data	15; 2	Cqix 15%2pF
Published electrical data	0.065	Cgla < 0,065 pF
Published electrical data	3	NPEAEJNBbHO JONYCTUMBIE 3KCIJIYATALHOHHBIE HAHHBIE


SOURCE DATA APPENDIX

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 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Guaranteed service life	500 h	PublishedGuarantee
Transconductance	30.5 mA/V	PublishedElectricalCharacteristics


SOURCE DATA APPENDIX

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	30 Ω	при 0,=6,3 В, 0,=150 В, Оса=150 В, К=30 Ом

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	6257 В	6257 ВЭ5П-И
Published electrical parameter	-12 В	=-12 В), мкА . . й , < 10 —
Published electrical parameter	150 В	= 150 В, τ= 1-2 мкс, /=50 Г!1;),
Published electrical parameter	5.7 В	То же при Иц=5,7 В, А. — >3
Published electrical parameter	0.5 кΩ	=0,5 кОм), мВ . . < 120 <120
Published electrical parameter	2008 В	0 20 40 60 80 100 720 140 160 180 2008 В-А5-40-10-10-08 @
Published electrical parameter	30 Ом	при Пн=6,3 В, Па=150 В, ис2=150 В, Кк=30 Ом