



ELECTRONIC TUBE REFERENCE

6S17KV

Voltage - Triode (single high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Soviet 6S17K-V metal-ceramic coaxial microwave triode for centimeter- and decimeter-wave oscillators, 6.3 V 300 mA heater.

GENERAL CHARACTERISTICS

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

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.014 S
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM GRID DISSIPATION	0.1 W
MAXIMUM CATHODE CURRENT	11 mA
Soviet 6S17K-V microwave metal-ceramic coaxial triode. Heater 6.3 V 0.3 A, max plate 200 V, dissipation 2 W, max plate current 11 mA, grid current 3.5 mA, grid dissipation 0.1 W, HF grid power 0.2 W, negative grid -30 V, bulb 200°C. Typical V_a 175 V, g_m 0.014 A/V, >100 mW RF output at 10 cm wavelength. $C_{gk} \sim 3 \pm 1$ pF, $C_{gp} < 0.015$ pF, output $\sim 1.5 \pm 0.3$ pF. Ambient -60 to +100°C, 2000 h life. No independently verified μ.	

Superhigh frequency triode CeepxsbicokodacTtoTtsiit Tpuon 6C17K-B npen- The 6C17K-B superhigh frequency triode is de- Superhigh frequency triode -

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical value	6	6C17K-B CBepXBbICOKOYACTOTHBIH TPHOJ,
CeepxsbicokodacTtoTtsiit Tpuon	6	CeepxsbicokodacTtoTtsiit Tpuon 6C17K-B npen- The 6C17K-B superhigh frequency triode is de-
CeepxsbicokouacToTHble tpuoan	6	CeepxsbicokouacToTHble tpuoan 6C17K-B BH- The 6C17K-B superhigh frequency triodes are
CaepxsricokouacToThele Tpuogsl	6	CaepxsricokouacToThele Tpuogsl 6C17K-B ye- The 6C17K-B superhigh frequency triodes are
nocta	40 A	nocta 95—989% npu Temunepatype +40°C, a takxe +40°C, as well as to mechanical loads: linear
K B0	10	K B03LEHCTBUIO MeXaHHUYECKHX Harpy3oK: JHHEeHHBIX loads up to 100 g, vibration loads up to 10 g,
no	150	no 100 g, subpanmonnbix g0 10 g, ynapHbX multiple impact loads up to 150 g and single im-
MHOTOKpaTHHIX A	500	MHOTOKpaTHHIX A0 150 g, yaapHBIX OZHHOYHBIX IO pact loads up to 500 g.
lapantupoBannas poJaposeunocTb	2000	lapantupoBannas poJaposeunocTb 2000 yacos. Service life guarantee: 2000 hr.
Published electrical value	3	3JIEKTPUYECKHUE JAHHBIE
Published electrical value	1	1} OrpuuaresbHoe, B paboueli Touke.
CgIk	15203 pF	CgIk 3x1 pF C,, gla 15203 pF
NPEAEJBHO JONIIYCTUMBIE	3	NPEAEJBHO JONIIYCTUMBIE 3KCNNYATALHOHHBIE NAHHLIE
Published electrical value	1	1) BHCOKO'JaCTOTHaH, IOoJIBOAUMAad K CeTKe B DeXKUMe YMHOXEHHHA '- la.CTOTH..

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CBepXBBLICOKOYACTOTHBIH TPHOL	7	CBepXBBLICOKOYACTOTHBIH TPHOL 6C I 7 K B
SRI)	100	SRI) 100V
Published electrical value	1	2 1L LQZ" =N
v/ BAT	100 V	v/ BAT2y — 'O(lfif_ 100
Published electrical value	100	. 100 omW ¥
Published electrical value	0	100 Vv yZdABEEEE —< /0
Published electrical value	20 A	1/ 10 20 Jg 40 A,cm g 10 20 30 A,cm 4 8 12 15 20 Acm
la=	10 mA	la=10 mA g,?fl P, = max Ial%)l/l P, = max

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Haubonbumuii Bec	5	Haubonbumuii Bec 5 e. Maximum weight: 5 gr.



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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	10 mA	при (0ч=6,3 В, И,= 175 В, 1,=10 мА, 0,=— (0,2+1,3) В
Transconductance	14 MA/B	Крутизна характеристики 14 МА/В
Amplification factor	135155 %	Коэффициент усиления 135155%
Published electrical parameter	3000 MHz	Коэффициент шума (при }=3000 МГц) . . , — <16,5 дБ
Published electrical parameter	2 kΩ	Напряжение виброшумов (при В, =2 кОм) , . . . <30 мВ

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Dissipation / power	>100 mW	Выходная мощность (при $\hat{a} = 10$ см) .к. . , — 2>100 мВт
Published electrical parameter	80 mW	То же при (ва=5,7 К, ке в . . , 80 мВт
Published electrical parameter	321 pF	входная. в ее к, 321 пФ
Published electrical parameter	<0.015 pF	выходная В г е . . . <0,015 пФ
Service life	>500 h	Наработка Ё ее . 2>500 ч
Dissipation / power	>80 mW	выходная мощность . >80 мВт
Heater voltage	6—6.6 V	Напряжение накала . К, 6—6,6 В
Plate voltage	200 V	Напряжение анода 200 В
Published electrical parameter	30 V	Напряжение сетки , ... От 0 до —30В
Published electrical parameter	3.5 mA	Ток сетки . . . 3,5 мА
Dissipation / power	2 V	Мощность, рассеиваемая анодом ава 2 Вт
Dissipation / power	0.1 V	Мощность, рассеиваемая сеткой , 0,1 Вт
Resistance	2 kΩ	Соппротивление в цепи анода . . . , . . . 2 кОм
Frequency	0.2 V	в режнме умножения частоты . ОНЕ 0,2 Вт
Published electrical parameter	-7 V	при (0ч=6,3 В, 0,= 110 В, В,=130 Ом, /,.=—-7 В
Published electrical parameter	5.7 V	То же при (н=5,7 В МА. , — >60 —