



ELECTRONIC TUBE REFERENCE

6N7S

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Soviet dual power triode designed for low-frequency power amplification. Its identical sections provide moderate gain and plate resistance with several watts of dissipation each, making it suitable for push-pull audio output and related amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 810 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	11000 Ω
TRANSCONDUCTANCE	0.0034 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	5.5 W
Bilingual Russian/English datasheet; English text used as primary extraction source.	

SECTION2 Triode	
PLATE RESISTANCE	11000 Ω
TRANSCONDUCTANCE	0.0034 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	5.5 W
Second identical physical triode section; added to align physical rows with SectionCount.	

The 6H7C double triode is designed for ampli- JEeHUs] MOIHOCTh HH3KOH YacTOTHL.



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Published nominal heater condition.
Heater current	800 mA	Published heater current.
Transconductance	2600 μ S	Published characteristic; normalized to μ S.
Amplification factor	35	Published characteristic.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published limiting operating value.
Maximum plate dissipation	2.75 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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	63 V	Published datasheet line: U, 63V ,? 175%55mA
I	81050 mA	Published datasheet line: I, 81050 mA P =42W
U	204 V	Published datasheet line: U, 204V S 34X mA/V
Uy	-6 V	Published datasheet line: Uy -6V 13 35

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
L)	65720 mA	Published datasheet line: L) 65720 mA R, 11kQ
) Kaxgzoro rtpuona npu Ugr	=0 V	Published datasheet line: ?) Kaxgzoro rtpuona npu Ugr =0, U, =300 V.
For each triode at U y	=0 V	Published datasheet line: For each triode at U _y =0, U, =300 V.
) IAI H U	=205 V	Published datasheet line:) IAI?H U, =205V, U _{yr} =−5V, U _{y_a} ;y=35 V, R, =25 kQ, R _y , =05 k.
U	69 V	Published datasheet line: U, 69V 57V
U	300 V	Published datasheet line: U, 300V
P	55 W	Published datasheet line: P, 55W
Uy	100 V	Published datasheet line: Uy 100V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	69 V	Published datasheet line: U, 69V 57V
U	300 V	Published datasheet line: U, 300V
P	55 W	Published datasheet line: P, 55W
Uy	100 V	Published datasheet line: Uy 100V
PublishedValue	200 V	Published datasheet line: 200V



TUBE TINKER
ELECTRON TUBE DATABASE

SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

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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
Nominal heater voltage	6.3 V	Published source value
Nominal heater current	810 mA	Published source value
Transconductance	3400 uS	Published operating point

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	11000 Ohm	Published operating point
Amplification factor	35	Published operating point

TUBE TINKER

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and their source documents.

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