

ELECTRONIC TUBE REFERENCE

6N9S

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA
2 SECTIONS
CONSTRUCTION
TRIODE-TRIODE

Russian high-mu double triode designed for low-frequency voltage amplification, providing two high-gain sections for audio and general signal service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
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 Triode	
TRANSCONDUCTANCE	0.0017 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
Bilingual Russian/English datasheet; English text used as primary extraction source.	

SECTION2 Triode	
TRANSCONDUCTANCE	0.0017 S
AMPLIFICATION FACTOR	70
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
Second physical triode section; added to align rows with SectionCount.	

The 6H9C double triode is designed for ampli-



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	300 mA	Published heater current.
Transconductance	1600 μ S	Published characteristic; normalized to μ S.
Amplification factor	70	Published characteristic.

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	300 V	Published limiting operating value.
Maximum plate dissipation	1 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) 23+1,3 mA
I	30025 mA	Published datasheet line: I, 30025 mA SY) 1,7x05 mA/V
U	250 V	Published datasheet line: U, 250V nl) 70x15

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Uyy	−2 V	Published datasheet line: Uyy −2V
Coe	1732 pF	Published datasheet line: Coe 1732 pF
Chu	03–16 pF	Published datasheet line: Chu 03—16pF
Cgla	1,5–4,0 pF	Published datasheet line: Cgla 1,5—4,0 pF
U	7 V	Published datasheet line: U, 7V 57V
U	275 V	Published datasheet line: U, 275 V
Uy	100 V	Published datasheet line: Uy, 100 V
Ry	0,5 MQ	Published datasheet line: Ry 0,5 MQ

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
U	7 V	Published datasheet line: U, 7V 57V
U	275 V	Published datasheet line: U, 275 V
Uy	100 V	Published datasheet line: Uy, 100 V
Ry	0,5 MQ	Published datasheet line: Ry 0,5 MQ
PublishedValue	8 mA	Published datasheet line: 8 350;/ ay Ly mA
PublishedValue	15 mA	Published datasheet line: 15.mA LT TAT]I I 400V
r	=0 V	Published datasheet line: r =0V Y vA 12v



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ELECTRON TUBE DATABASE

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Nominal heater voltage	6.3 V	Published source value
Nominal heater current	300 mA	Published source value
Transconductance	1700 uS	Published operating point

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	70	Published operating point

TUBE TINKER

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and their source documents.

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