

ELECTRONIC TUBE REFERENCE

6EU7

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

High-mu twin triode designed for low-noise, low-level audio voltage amplification, providing two similar sections for preamplifier and other sensitive AF circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9L5	BASE PINS	9
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	
PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.2 W
MAXIMUM CATHODE CURRENT	10 mA
MAXIMUM HEATER-CATHODE VOLTAGE	200 V
Representative row for two electrically identical high-mu triode sections; promoted characteristics use the published 250-V operating point.	

SECTION2 Triode	
PLATE RESISTANCE	62500 Ω
TRANSCONDUCTANCE	0.0016 S
AMPLIFICATION FACTOR	100
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM PLATE DISSIPATION	1.2 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Second physical triode restored.</i>	

High-mu twin triode designed for low-hum, low-microphonic, low-level audio preamplifier and microphone-amplifier service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	62500 ohm	EachUnit
Transconductance	1600 uS	EachUnit



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Westinghouse Data Book

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

1965 WESTINGHOUSE DATA BOOK

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage maximum	330 V	—
Typical plate voltage	250 V	ClassA

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	100	—
Plate resistance	62500 ohm	—
Transconductance	1600 uS	—

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Low-noise audio preamplifier	—



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_voltage	250 V	Section1,Section2,ClassA
Grid_voltage	-2 V	Section1,Section2,ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate_current	1.2 mA	Section1,Section2,ClassA
Equivalent_noise_and_hum_voltage	1.8 uV	Section1,Section2,ClassA

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	1.5 pF	Section1,Section2
Grid-to-cathode-and-heater capacitance	1.6 pF	Section1,Section2
Plate-to-cathode-and-heater capacitance	0.2 pF	Section1,Section2



SOURCE DATA APPENDIX

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO
Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	AverageCharacteristics EachSection
Grid Voltage	-2 V	AverageCharacteristics EachSection
Plate Current	1.2 mA	AverageCharacteristics EachSection
Equivalent Noise and Hum Voltage	1.8 uV	Average TrueRMS EachSection



SOURCE DATA APPENDIX

1971 RCA HB3 Binder 4 of 7

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

1971 RCA HB3 BINDER 4 OF 7
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Maximum plate voltage	330 V	—
PLATE VOLTAGE	330 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Negative-bias value	55 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Positive-bias value	0 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
PLATE DISSIPATION	1.2 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Heater negative with respect to cathode	200 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Heater positive with respect to cathode	200 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	100	ClassA
Voltage (AC or DC) – published value 1	6.3 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Voltage (AC or DC) – published value 2	10 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Current at 6.3 volts – published value 1	6.3 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Current at 6.3 volts – published value 2	0.3 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid to plate	1.5	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
and heater	1.6	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
and heater	0.2	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
tions: Heater volts (AC)= 6.3; center-tap of heater	6.3 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
250; plate load resistor (megohms)= 0.1; cathode resistor – published value 1	250 Mohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
250; plate load resistor (megohms)= 0.1; cathode resistor – published value 2	0.1 Mohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
(ohms)= 2700; cathode bypass capacitor (μf)= 100; grid – published value 1	2700 ohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
(ohms)= 2700; cathode bypass capacitor (μf)= 100; grid – published value 2	100 ohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
resistor (ohms)= 0; amplifier frequency range 25 to 10000 cps – published value 1	0 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
resistor (ohms)= 0; amplifier frequency range 25 to 10000 cps – published value 2	25 A	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
resistor (ohms)= 0; amplifier frequency range 25 to 10000 cps – published value 3	10000 A	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Voltage – published value 1	100 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Voltage – published value 2	250 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid Voltage – published value 1	-1 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Grid Voltage – published value 2	-2 V	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Amplification Factor – published value 1	100 A	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Amplification Factor – published value 2	100 A	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Resistance (Approx) – published value 1	80000 ohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Resistance (Approx) – published value 2	62500 ohm	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance – published value 1	1250	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Transconductance – published value 2	1600	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Current – published value 1	0.5 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Plate Current – published value 2	1.2 mA	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 1 -Heater – published value 1	1	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 1 -Heater – published value 2	6	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 2 -Heater	2	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
P i n 3 - No Connec – published value 1	3	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
P i n 3 - No Connec – published value 2	7	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 4 -Cathode of – published value 1	4	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 4 -Cathode of – published value 2	8	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 5 -Grid of – published value 1	5	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.
Pin 5 -Grid of – published value 2	9	Published datasheet value; multiple numbers on one source row represent separate limits or operating conditions.



1975 RCA RC30

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

1975 RCA RC30
Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage (ac/dc)	6.3 V	Published in approved 6EU7 target entry; Section1
Heater Current	300 mA	Published in approved 6EU7 target entry; Section1
Grid to Plate	1.5 pF	Published in approved 6EU7 target entry; Section1
Grid to Cathode and Heater	1.6 pF	Published in approved 6EU7 target entry; Section1
Negative-bias value	55 V	Published in approved 6EU7 target entry; Section1
Positive-bias value	0 W	Published in approved 6EU7 target entry; Section1
Plate Dissipation	1.2 W	Published in approved 6EU7 target entry; Section1
Plate Voltage 100	250 V	Published in approved 6EU7 target entry; Section1
Plate Resistance (Approx.) 80000	62500 Ω	Published in approved 6EU7 target entry; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate to Cathode and Heater	0.2 pF	Published in approved 6EU7 target entry; Section1
Average Value*	1.8 microvolts rms	Published in approved 6EU7 target entry; Section1
100000 ohms cathode resistor,	2700 Ω	Published in approved 6EU7 target entry; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance 1250	1600 μS	Published in approved 6EU7 target entry; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current 0.5	1.2 mA	Published in approved 6EU7 target entry; Section1

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